



Case No.: 16 - 0727 -EL-EEC

Mercantile Customer: **Wyoming City Schools**

Electric Utility: **Duke Energy**

Program Title or Description: **Wyoming Middle School High Efficiency HVAC**

Rule 4901:1-39-05(F), Ohio Administrative Code (O.A.C.), permits a mercantile customer to file, either individually or jointly with an electric utility, an application to commit the customer's existing demand reduction, demand response, and energy efficiency programs for integration with the electric utility's programs. The following application form is to be used by mercantile customers, either individually or jointly with their electric utility, to apply for commitment of such programs in accordance with the Commission's pilot program established in Case No. [10-834-EL-POR](#)

Completed applications requesting the cash rebate reasonable arrangement option (Option 1) in lieu of an exemption from the electric utility's energy efficiency and demand reduction (EEDR) rider will be automatically approved on the sixty-first calendar day after filing, unless the Commission, or an attorney examiner, suspends or denies the application prior to that time. Completed applications requesting the exemption from the EEDR rider (Option 2) will also qualify for the 60-day automatic approval so long as the exemption period does not exceed 24 months. Rider exemptions for periods of more than 24 months will be reviewed by the Commission Staff and are only approved up the issuance of a Commission order.

Complete a separate application for each customer program. Projects undertaken by a customer as a single program at a single location or at various locations within the same service territory should be submitted together as a single program filing, when possible. Check all boxes that are applicable to your program. For each box checked, be sure to complete all subparts of the question, and provide all requested additional information. Submittal of incomplete applications may result in a suspension of the automatic approval process or denial of the application.

Any confidential or trade secret information may be submitted to Staff on disc or via email at ee-pdr@puc.state.oh.us.

Section 1: Mercantile Customer Information

Name: **Wyoming City Schools**

Principal address: **420 Springfield Pike STE A
Wyoming, OH 45215**

Address of facility for which this energy efficiency program applies:

**17 Wyoming Ave
Cincinnati, OH 45215**

Name and telephone number for responses to questions:

Andrew Taylor, (317)838-2096

Electricity use by the customer (check the box(es) that apply):

- The customer uses more than seven hundred thousand kilowatt hours per year at the above facility. (**Refer to Appendix A for documentation.**)
- The customer is part of a national account involving multiple facilities in one or more states. (Please attach documentation.)

Section 2: Application Information

A) The customer is filing this application (choose which applies):

- Individually, without electric utility participation.
- Jointly with the electric utility.**

B) The electric utility is: **Duke Energy**

C) The customer is offering to commit (check any that apply):

- Energy savings from the customer's energy efficiency program. (Complete Sections 3, 5, 6, and 7.)
- Capacity savings from the customer's demand response/demand reduction program. (Complete Sections 4, 5, 6, and 7.)
- Both the energy savings and the capacity savings from the customer's energy efficiency program. (Complete all sections of the Application.)**

Section 3: Energy Efficiency Programs

A) The customer's energy efficiency program involves (check those that apply):

- Early replacement of fully functioning equipment with new equipment. (Provide the date on which the customer replaced fully functioning equipment, and the date on which the customer would have replaced such equipment if it had not been replaced early. Please include a brief explanation for how the customer determined this future replacement date (or, if not known, please explain why this is not known)).

Constructed high efficiency building (Wyoming Middle School) in January 2015.

- Installation of new equipment to replace equipment that needed to be replaced The customer installed new equipment on the following date(s): _____.
- Installation of new equipment for new construction or facility expansion. The customer installed new equipment on the following date(s): _____.
- Behavioral or operational improvement.

B) Energy savings achieved/to be achieved by the energy efficiency program:

- 1) If you checked the box indicating that the project involves the early replacement of fully functioning equipment replaced with new equipment, then calculate the annual savings [(kWh used by the original equipment) - (kWh used by new equipment) = (kWh per year saved)]. Please attach your calculations and record the results below:

Annual savings: 59,792 kWh
Refer to Appendix B for calculations and supporting document

- 2) If you checked the box indicating that the customer installed new equipment to replace equipment that needed to be replaced, then calculate the annual savings [(kWh used by less efficient new equipment) - (kWh used by the higher efficiency new equipment) = (kWh per year saved)]. Please attach your calculations and record the results below:

Annual savings: _____kWh

Please describe any less efficient new equipment that was rejected in favor of the more efficient new equipment.

- 3) If you checked the box indicating that the project involves equipment for new construction or facility expansion, then calculate the annual savings [(kWh used by less efficient new equipment) - (kWh used by higher efficiency new equipment) = (kWh per year saved)]. Please attach your calculations and record the results below:

Annual savings: _____kWh

Please describe the less efficient new equipment that was rejected in favor of the more efficient new equipment.

- 4) If you checked the box indicating that the project involves behavioral or operational improvements, provide a description of how the annual savings were determined.

Annual savings: _____kWh

Section 4: Demand Reduction/Demand Response Programs

- A) The customer's program involves (check the one that applies):
- Coincident peak-demand savings from the customer's energy efficiency program.**
 - Actual peak-demand reduction. (Attach a description and documentation of the peak-demand reduction.)
 - Potential peak-demand reduction (check the one that applies):
 - The customer's peak-demand reduction program meets the requirements to be counted as a capacity resource under a tariff of a regional transmission organization (RTO) approved by the Federal Energy Regulatory Commission.
 - The customer's peak-demand reduction program meets the requirements to be counted as a capacity resource under a program that is equivalent to an RTO program, which has been approved by the Public Utilities Commission of Ohio.

- B) On what date did the customer initiate its demand reduction program?

Wyoming Middle School was constructed in January 2015.

- C) What is the peak demand reduction achieved or capable of being achieved (show calculations through which this was determined):

-16.7 kW

Refer to Appendix B for calculations and supporting documentation.

Section 5: Request for Cash Rebate Reasonable Arrangement (Option 1) or Exemption from Rider (Option 2)

Under this section, check the box that applies and fill in all blanks relating to that choice.

Note: If Option 2 is selected, the application will not qualify for the 60-day automatic approval. All applications, however, will be considered on a timely basis by the Commission.

A) The customer is applying for:

Option 1: A cash rebate reasonable arrangement.

OR

Option 2: An exemption from the energy efficiency cost recovery mechanism implemented by the electric utility.

OR

Commitment payment

B) The value of the option that the customer is seeking is:

Option 1: A cash rebate reasonable arrangement, which is the lesser of (show both amounts):

A cash rebate of **\$1,765**. **Refer to Appendix C for documentation.** (Rebate shall not exceed 50% project cost.)

Option 2: An exemption from payment of the electric utility's energy efficiency/peak demand reduction rider.

An exemption from payment of the electric utility's energy efficiency/peak demand reduction rider for _____ months (not to exceed 24 months). (Attach calculations showing how this time period was determined.)

OR

A commitment payment valued at no more than \$_____. (Attach documentation and

calculations showing how this payment amount was determined.)

OR

- Ongoing exemption from payment of the electric utility's energy efficiency/peak demand reduction rider for an initial period of 24 months because this program is part of the customer's ongoing efficiency program. (Attach documentation that establishes the ongoing nature of the program.) In order to continue the exemption beyond the initial 24 month period, the customer will need to provide a future application establishing additional energy savings and the continuance of the organization's energy efficiency program.)

Section 6: Cost Effectiveness

The program is cost effective because it has a benefit/cost ratio greater than 1 using the (choose which applies):

- Total Resource Cost (TRC) Test. The calculated TRC value is: _____ (Continue to Subsection 1, then skip Subsection 2)
- ✓ Utility Cost Test (UCT) . The calculated UCT value is **20.75** (Skip to Subsection 2.) **Refer to Appendix D for calculations and supporting documents.**

Subsection 1: TRC Test Used (please fill in all blanks).

The TRC value of the program is calculated by dividing the value of our avoided supply costs (generation capacity, energy, and any transmission or distribution) by the sum of our program overhead and installation costs and any incremental measure costs paid by either the customer or the electric utility.

The electric utility's avoided supply costs were _____.

Our program costs were _____.

The incremental measure costs were _____.

Subsection 2: UCT Used (please fill in all blanks).

We calculated the UCT value of our program by dividing the value of our avoided supply costs (capacity and energy) by the costs to our electric utility (including administrative costs and incentives paid or rider exemption costs) to obtain our commitment.

Our avoided supply costs were **\$53,098**.

The utility's program costs were **\$794**.

The utility's incentive costs/rebate costs were **\$1,765**.

Refer to Appendix D for calculations and supporting documents.

Section 7: Additional Information

Please attach the following supporting documentation to this application:

Narrative description of the program including, but not limited to, make, model, and year of any installed and replaced equipment.

A copy of the formal declaration or agreement that commits the program or measure to the electric utility, including:

- 1) any confidentiality requirements associated with the agreement;
- 2) a description of any consequences of noncompliance with the terms of the commitment;
- 3) a description of coordination requirements between the customer and the electric utility with regard to peak demand reduction;
- 4) permission by the customer to the electric utility and Commission staff and consultants to measure and verify energy savings and/or peak-demand reductions resulting from your program; and,
- 5) a commitment by the customer to provide an annual report on your energy savings and electric utility peak-demand reductions achieved.

Refer to Offer Letter following this application

A description of all methodologies, protocols, and practices used or proposed to be used in measuring and verifying program results. Additionally, identify and explain all deviations from any program measurement and verification guidelines that may be published by the Commission.

39803807 01		
WYOMING CITY SCHOOLS		
17 Wyoming Ave		
Cincinnati, OH 45215		
Date	Days	Actual KWH
3/4/2016	29	83,043
2/4/2016	29	86,910
1/6/2016	34	104,293
12/3/2015	31	91,964
11/2/2015	31	94,981
10/2/2015	30	102,873
9/2/2015	29	102,272
8/4/2015	29	106,824
7/6/2015	32	106,691
6/4/2015	30	103,128
5/5/2015	29	81,898
4/6/2015	32	78,397
Total		1,143,274

Appendix C -Cash Rebate Calculation

Wyoming City Schools

Measure	Quantity	Cash Rebate Rate	Cash Rebate
Wyoming Middle School - VFD & S/R Fans	1	50% of incentive that would be offered by the Smart \$aver Custom program	\$1,765
			\$1,765

Appendix D -UCT Value

Wyoming City Schools

Measure	Total Avoided Cost	Program Cost	Incentive	Quantity	Measure UCT
Wyoming Middle School	\$53,098	\$794	\$1,765	1	20.75
Totals	\$53,098	\$794	\$1,765	1	

Total Avoided Supply Costs	\$53,098	<i>Aggregate Application UCT</i>	20.75
Total Program Costs	\$794		
Total Incentive	\$1,765		



Smart Saver® Incentive Program

phone: 866.380.9580

fax: 980.373.9755

customprocessing@duke-energy-energyefficiency.com

12/8/2015

Kathy Ryan
WYOMING CITY SCHOOLS - 3980380701
17 WYOMING AVE
CINCINNATI OH 45215-4303

Subject: Your Application for a Duke Energy Mercantile Self-Direct Rebate CMO15-0000052114

Dear Kathy Ryan,

Thank you for your Duke Energy Mercantile Self Direct rebate application. As noted in the Energy Conservation Measure (ECM) chart on page 2, a total rebate of \$1,765.00 has been proposed for your project completed in the 2015 calendar years. **All Self Direct Rebates are contingent upon approval by the Public Utilities Commission of Ohio (PUCO).**

At your earliest convenience, please indicate if you accept this rebate by:

- providing your signature on Page 2
- completing the PUCO-required affidavit on Page 3

Please return the documents to my attention via fax at 513.629.5572 or email to customprocessing@duke-energy-energyefficiency.com. Upon receipt, Duke Energy will submit the necessary documentation to PUCO. Following PUCO's approval, Duke Energy will remit payment.

We value your business and look forward to working with you on this and future energy efficiency projects. We hope you will consider our Smart Saver® incentives, when applicable. Please contact me if you have any questions.

Sincerely,

A handwritten signature in cursive script that reads 'Megan Fox'.

Megan Fox
Program Manager
Custom Incentives

cc:

Jeff Haynay



WYOMING CITY SCHOOLS - 3980380701 - CMO15-0000052114 Custom Incentive Offer Letter
Page 2

**Please indicate your response to this rebate offer
within 30 days of receipt.**

Rebate is accepted.

Rebate is declined.

By accepting this rebate, WYOMING CITY SCHOOLS - 3980380701 affirms its intention to commit and integrate the energy efficiency projects listed on the following pages into Duke Energy's peak demand reduction, demand response and/or energy efficiency programs.

Additionally, WYOMING CITY SCHOOLS - 3980380701 also agrees to serve as joint applicant in any future filings necessary to secure approval of this arrangement as required by PUCO and to comply with any information and reporting requirements imposed by rule or as part of that approval.

Finally, WYOMING CITY SCHOOLS - 3980380701 affirms that all application information submitted to Duke Energy pursuant to this rebate offer is true and accurate. Information in question would include, but not be limited to, project scope, equipment specifications, equipment operational details, project costs, project completion dates, and the quantity of energy conservation measures installed.

If rebate is accepted, will you use the monies to fund future energy efficiency and/or demand reduction projects? Yes No

Kathy Ryan
Customer Signature

Kathy Ryan
Printed Name

2/8/16
Date

Ohio Public Utilities Commission

(Mercantile Customers Only)

Application to Commit Energy Efficiency/Peak Demand Reduction Programs

3980380701 or 80703788-01-0
Case No.: _____-EL-EEC

State of Ohio : 16 - 0727 -EL-EEC

Kathy Ryan, Affiant, being duly sworn according to law, deposes and says that:

1. I am the duly authorized representative of:

Wyoming City Schools
[INSERT CUSTOMER OR EDU COMPANY NAME AND ANY APPLICABLE NAME(S) DOING BUSINESS AS]

2. I have personally examined all the information contained in the foregoing application, including any exhibits and attachments. Based upon my examination and inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete.

3. I am aware of fines and penalties which may be imposed under Ohio Revised Code Sections 2921.11, 2921.31, 4903.02, 4903.03, and 4903.99 for submitting false information.

Kathy Ryan, Owner's Representative
SIGNATURE OF AFFIANT & TITLE

Sworn and subscribed before me this 11 day of February, 2016
DAY MONTH YEAR

Donna Warmack
SIGNATURE OF OFFICIAL ADMINISTERING OATH

DONNA WARMACK, Notary
PRINT NAME AND TITLE

My commission expires on 5/20/2017
DATE



Donna Warmack
Notary Public, State of Ohio
My Commission Expires 05-20-2017

Mercantile Self Direct Nonresidential Custom Rebate Application PART 1



Ohio Mercantile Self Direct Program

Application Guide & Cover Sheet

Questions? Call 1-866-380-9580 or visit www.duke-energy.com.

Email this form along with completed Mercantile Self Direct Prescriptive or Custom applications, proof of payment, energy savings calculations and spec sheets to SelfDirect@Duke-Energy.com. You may also fax to 1-513-629-5572.

Mercantile customers, defined as using at least 700,000 kWh annually or having an account in multiple locations are eligible for the Mercantile Self Direct program. Indicate which applies:

- a single Duke Energy Ohio account with 700,000 kWh annual usage
 an account with multiple locations

Please list Duke Energy account numbers below (attach listing of multiple accounts and/or billing history for other utilities as required):

Account Number	Annual Usage	Account Number	Annual Usage
80703788-01-0	To be Determined		

Self Direct rebates are available for completed Custom projects that have not previously received a Duke Energy Smart Saver® Custom Incentive. Self Direct rebates are applicable to Prescriptive measures that were installed more than 90 days prior to submission to Duke Energy and have not previously received a Duke Energy Prescriptive rebate.

Self Direct Program rules allow for, though do not require, certain projects that are Prescriptive in nature under the Smart Saver program to be evaluated using the Custom process in the Self Direct program. Use the list on page two as a guide to determine which Self Direct program best fits your project(s). Apply for Self Direct projects using the appropriate application forms in conjunction with this cover sheet.

Self Direct Program rules also allow for behaviorally based and/or no cost and low cost projects to receive rebates.

Please check each box to indicate completion/inclusion of the following program requirements:

<input checked="" type="checkbox"/> All sections of appropriate application(s) are completed	<input checked="" type="checkbox"/> Proof of payment.*	<input checked="" type="checkbox"/> Manufacturer's Spec sheets	<input checked="" type="checkbox"/> Energy model/calculations and detailed inputs for Custom applications
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*If a single payment record is intended to demonstrate the costs of both Prescriptive & Custom projects, please include an additional document with an estimated breakout of costs for each Prescriptive and Custom energy conservation measure.

**Behavioral energy efficiency and demand reduction projects must be both measurable and verifiable. Provide justification with your application. Rebates for such projects may be small in magnitude.

**Mercantile Self Direct
Nonresidential Custom Rebate Application
PART 1**



Application Type	Prescriptive Measures with Optional Custom Processing	
Heating & Cooling and Window Films, Programmable Thermostats, & Guest Room Energy Management Systems	<input type="checkbox"/> Energy Star Window/Sleeve/Room AC <input type="checkbox"/> Central Air Unit	<input type="checkbox"/> Air Source Heat Pump Water Heater
	<input type="checkbox"/> Setback/Programmable Thermostat <input type="checkbox"/> Guestroom Energy Management Control	<input type="checkbox"/> Window Film
Chillers & Thermal Storage	<input type="checkbox"/> Air Cooled Chiller	<input type="checkbox"/> Water Cooled Chiller
Motors, Pumps and Variable Frequency Drives (VFDs)	<input type="checkbox"/> VFD – Applied to Process Pump <input type="checkbox"/> VFD – Applied to HVAC Pump	<input type="checkbox"/> VFD – applied to HVAC Fan
Food Service	<input type="checkbox"/> ENERGY STAR Hot Food Holding Cabinet <input type="checkbox"/> Night Covers for Display <input type="checkbox"/> ECM Cooler, Freezer, and Display Case Motors <input type="checkbox"/> ENERGY STAR Solid or Glass Door Reach-in Freezer or Refrigerator	<input type="checkbox"/> Anti-Sweat Heater Control <input type="checkbox"/> Cooking Equipment <input type="checkbox"/> ENERGY STAR ICE MACHINE
Process Equipment	<input type="checkbox"/> Engineered Nozzle – COMPRESSED AIR <input type="checkbox"/> Air compressor equipped with VFD	<input type="checkbox"/> Pellet Dryer Duct Insulation
Chiller Tune-ups	<input type="checkbox"/> Air cooled chiller tune-up	<input type="checkbox"/> Water cooled chiller tune-up

Please indicate above any Prescriptive energy conservation measures to be evaluated through the Custom process. Only Prescriptive measures listed above are eligible for this option. To receive a Self Direct Custom rebate, a detailed analysis of pre-project and post-project energy usage and project costs must be included in the application.

Although some Self Direct Prescriptive measures are eligible for evaluation through Custom processes, such an approach may not be most effective for certain measures.

Mercantile Self Direct Nonresidential Custom Rebate Application PART 1



Proposed energy efficiency measures may be eligible for Self-Direct Custom rebates if they clearly reduce electrical consumption and/or demand as compared to the appropriate baseline.

Before you complete this application, please note the following important criteria:

- Submitting this application does not guarantee a rebate will be approved.
- Rebates are based on electricity conservation only.
- Electric demand and/or energy reductions must be well documented with auditable calculations.
- Incomplete applications cannot be reviewed; all fields are required.

Refer to the complete list of Instructions and Disclaimers, beginning on page 6.

Notes on the Application Process

If you have any questions concerning how to complete any portion of the application or what supplementary information is required, please contact your Duke Energy Ohio, Inc account manager or the Duke Energy Self Direct team at 1-866-380-9580.

Every application must include calculations of the baseline electrical usage and the electrical usage of the proposed high-efficiency equipment/system. These calculations are performed and submitted by the Duke Energy Ohio customer, or your designated equipment vendor / engineer. Application Part 2 worksheets and page 6 of this application contain additional guidance on acceptable calculations. *Complex or unique projects may require the use, at the applicant's expense, of modeling software.* Please contact the Duke Energy Self Direct team with questions about these requirements.

If you do not receive an acknowledgement email within 1 day of submitting an application via online, email, or fax, or within 1 week of sending an application via mail, please call 1-866-380-9580. The acknowledgement email will provide with an estimated response time based on an initial assessment of your application. The application review may include some communication to resolve any questions about the project or to request additional information. Applications that are received complete without missing information have a faster review time.

There are two ways to submit your completed application form and excel worksheets.

Email: Complete, sign, scan and send this application form and attachments to:
SelfDirect@duke-energy.com (Note attachment size limit is applicable)

Fax: 513-629-5572

**Mercantile Self Direct
Nonresidential Custom Rebate Application
PART 1**



1. Contact Information (Required)

Duke Energy Customer Contact Information					
Company Name	Wyoming City Schools				
Address	420 Springfield Pike				
City	Wyoming	State	OH	Zip Code	45215
Project Contact					
Title	Owner's Representative				
Office Phone	513-206-7004	Mobile Phone	513-309-8743	Fax	513-672-3355
E-mail Address	ryank@wyomingcityschools.org				

Equipment Vendor / Contractor / Architect / Engineer Contact Information					
Company Name	Motz Engineering				
Address	300 West Fourth Street, Suite 300				
City	Cincinnati	State	OH	Zip Code	45202
Project Contact	<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Ms	Jeff Haynay			
Title	Commisioning Consultant				
Office Phone	513-621-5400	Mobile Phone	513-295-6411	Fax	513-621-5407
E-mail Address	jeff@motzengineering.com				

Who is the primary point of contact for technical questions? ¹	Jeff Haynay
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Payment Information	
If an incentive is awarded, who should receive payment? ²	
<input checked="" type="checkbox"/> Customer <input type="checkbox"/> Vendor (Customer must sign below)	
I hereby authorize payment of incentive directly to the vendor:	
Customer Signature	<u>Kathy Ryan</u> Date <u>05/29/2014</u> (mm/dd/yyyy)
Tax ID Number for Payee Provide W-9 for Payee	31-6001020

¹ Note that if the vendor is the primary point of contact, the customer will still be copied on all application correspondence. If the customer does not wish to be copied, the customer must provide a signed waiver indicating an entity acting as agent for the customer. Duke Energy does not act as agent.

² If payment is to be made to an entity other than the Duke Energy account holder or the vendor, a payment waiver is required and will be provided for customer signature.

**Mercantile Self Direct
Nonresidential Custom Rebate Application
PART 1**



2. Project Information (Required)

- A. Please indicate project type:
- New Construction
 - Expansion at an existing facility (existing Duke Energy account number)
 - Replacing equipment due to equipment failure
 - Replacing equipment that is estimated to have remaining useful life of 2 years or less
 - Replacing equipment that is estimated to have remaining useful life of more than 2 years
 - Behavioral, operational and/or procedural programs/projects
- B. Please describe your project, or attach a detailed project description that describes the project.
See attachment for Project Description.
- C. When did you start and complete implementation?
Start date 12 /2013 (mm/yyyy) End date 01 / 2015 (mm/yyyy)
- D. Are you also applying for Self-Direct Prescriptive rebates and, if so, which one(s)³?
NO
- E. Please indicate which worksheet(s) you are submitting for this application (check all that apply):
- Lighting
 - Variable Frequency Drive (VFD)
 - Compressed Air
 - Energy Management System (EMS)
 - General (for projects not easily submitted using one of the above worksheets)
- F. List all assumptions about the baseline and proposed equipment energy use and operation schedule, or attach a document listing that information. Attach specification sheets for all proposed new equipment.
- G. Attach a supplier or contractor estimate, engineer's cost estimate, and/or other equivalent information documenting the Implementation Cost for each project listed in your application. Does the Implementation Cost include any internal labor⁴? If yes, please specify which costs are internal labor.

3. Signature

³ If your project involves some equipment that is eligible for prescriptive rebates and some equipment that is likely eligible for custom rebates, and if it is feasible to separate the equipment for the energy analysis, then the equipment will be evaluated separately. If it is not feasible to separate the equipment for analysis, then the equipment will be evaluated together in the custom application.

⁴ Internal labor costs cannot be counted in the Incremental Project Cost for purposes of analysis.

**Mercantile Self Direct
Nonresidential Custom Rebate Application
PART 1**



(Required – must be signed by Duke Energy customer)

Customer Consent to Release of Personal Information

I, (insert name) Kathy Ryan, do hereby consent to Duke Energy disclosing my Duke Energy Ohio, Inc Account Number and Federal Tax ID Number to its subcontractors solely for the purpose of administering Duke Energy Ohio's Mercantile Self-Direct Program. I understand that such subcontractors are contractually bound to otherwise maintain my Duke Energy Ohio, Inc Account Number and Federal Tax ID Number in the strictest of confidence.

I realize that under the rules and regulations of the public utilities commission, I may refuse to allow Duke Energy Ohio, Inc to release the information set forth above. By my signature, I freely give Duke Energy Ohio, Inc permission to release the information designated above.

Application Signature

I certify that I meet the eligibility requirements of the Duke Energy Ohio, Inc Mercantile Self Direct Custom Rebates Program and that all information provided within this application is correct to the best of my knowledge. I agree to the terms and conditions set forth for this program. I certify that the numbers, energy savings, and responses shown on this form are correct. Further, I certify that the taxpayer identification number is current and correct. I am not subject to backup withholding because: (a) I am exempt from backup withholding; or (b) I have not been notified by the IRS that I am subject to backup withholding as a result of a failure to report all interest or dividends; or (c) the IRS has notified me that I am no longer subject to backup withholding. I am a U.S. citizen (includes a U.S. resident alien).

Kathy Ryan
Duke Energy Ohio, Inc Customer Signature

Print Name Kathy Ryan

Date 5/29/2014

**Mercantile Self Direct
Nonresidential Custom Rebate Application
PART 1**



Checklist for completing the Application

INCOMPLETE APPLICATIONS WILL RESULT IN DELAYS IN DUKE ENERGY PROCESSING YOUR APPLICATION AND NOTIFYING YOU CONCERNING ANY REBATES. Before submitting the application and the required supplementary information, use the following checklist to ensure that your application is complete and the information in the application is accurate. (Note: this checklist is for your use only – do not submit this checklist with your application)

Section No. & Title	Have You:
1. Contact Information	<input checked="" type="checkbox"/> Completed the contact information for the Duke Energy customer? <input checked="" type="checkbox"/> Completed the contact information for the equipment vendor / project engineer that can answer questions about the technical aspects of the project, if that is a different person than above?
2. Project Information	<input checked="" type="checkbox"/> Answered the questions A-G, including providing a description of your project. <input checked="" type="checkbox"/> Completed and attached the lighting, compressed air, VFD, EMS and/or General worksheet(s)? <input type="checkbox"/> Attached a supplier or contractor estimate, engineer's cost estimate, and/or other equivalent information documenting the Implementation Cost for each project listed in your application? (Note: self-install costs cannot be included in the Implementation Cost)
3. Signature	<input checked="" type="checkbox"/> Signed your name? <input checked="" type="checkbox"/> Printed your name? <input checked="" type="checkbox"/> Entered the date?
Supplementary information (Required)	<input checked="" type="checkbox"/> (If submitting the General Worksheet) attached calculations documenting the energy usage and energy savings for each project listed in your application?

If you have any questions concerning how to complete any portion of the application or what supplementary information is required, please contact:

- your Duke Energy account manager
or,
- the Duke Energy Self Direct team at 1-866-380-9580.

Submit your completed, signed application with attachments via email or fax:

Email: SelfDirect@duke-energy.com
 Fax: 1-513-629-5572.

**Mercantile Self Direct
Nonresidential Custom Rebate Application
PART 1**



Preferred Customized Calculation Tools

Please refer to the list below of the preferred software tools to use when calculating the baseline electrical usage and the electrical usage of the proposed high-efficiency equipment or system. Click on each software tool to learn more.

Software Tool	Category
eQuest	Nonresidential retrofits and new construction
EnergyPlus	Nonresidential retrofits and new construction; Whole building simulation
Carrier® HAP	HVAC
Trane® Trace™	HVAC
DOE OIT Pumping System Assessment Tool (PSAT)	Pumps
MotorMaster+	Motors
AirMaster	Air compressor systems
Emerson™ Product Selection & Energy Analysis	Refrigeration compressor retrofits using BIN analysis. ² For projects of approximately 250,000 kWh or less.
DOE2.2R	Refrigeration measures
SkyCalc™	Skylighting
BinMaker®	Weather data analysis tool
AFT Fathom	Fluid flow analysis for industrial systems

Mercantile Self Direct Nonresidential Custom Rebate Application PART 1



Instructions/Terms/Conditions

Note: Please keep for your records- do not submit with the application

1. Energy service companies or contractors may assist in preparing the application, but an authorized representative of the customer must sign this application to be eligible to participate in the Mercantile Self Direct Program. Completion of this application does not guarantee the approval of a Self Direct Custom Rebate.
2. Once all documentation requested in this application is received by *Duke Energy Ohio, Inc*, and any follow-up information requested by *Duke Energy* is received, the rebate amount for each Energy Conservation Measure (ECM) will be communicated to the customer. The rebate amount will be based on ECM energy savings and ECM incremental installation cost.
3. All rebates require approval by the Public Utilities Commission of Ohio. *Duke Energy Ohio, Inc* will submit an application for rebate on the customer's behalf upon customer attestation to program terms, conditions and requirements as outlined in the rebate offer letter and upon customer completion of attestation documents required by the Public Utilities Commission of Ohio.
4. *Duke Energy Ohio, Inc* will issue a Self Direct Custom Rebate check, based on the approved rebate amount for each ECM, upon receiving approval from the Public Utilities Commission of Ohio. *Duke Energy Ohio, Inc* does not guarantee PUCO approval.
5. With the application, the customer must provide a list of all sites where the ECMs were installed. *Duke Energy Ohio, Inc* requests that sites of similar size, hours of operation and energy consuming characteristics be grouped together in one application for the determination of the rebate amount. The application should identify the site where each unique ECM was installed.
6. Based on the information submitted with the application and the information gathered both before and after the initial installation of the ECM, *Duke Energy Ohio, Inc* will calculate the rebate amount for each ECM.
7. *Duke Energy Ohio, Inc* may conduct random site inspections of a sample of the locations where the ECMs are installed to verify installation and operability of the ECMs and to obtain information needed to calculate the Approved Rebate Amount.
8. Customers are encouraged to retain copies of all forms, invoices and supporting documentation for their records.
9. Approved rebates are valid for 6 months from the date communicated to the customer by *Duke Energy Ohio, Inc*, subject to the expiration of measure eligibility based on project completion dates and application submission deadlines as defined by PUCO. Customers are encouraged to execute their rebate offer contracts and PUCO-required affidavits promptly to ensure eligibility is not forfeited.

**Mercantile Self Direct
Nonresidential Custom Rebate Application
PART 1**



10. *Duke Energy Ohio, Inc* reserves the right to recover all unrecoverable costs associated with the project approval if the customer decides not to execute the rebate contract, after the project is approved by *Duke Energy Ohio, Inc*.
11. Projects financially supported by other funding sources will be evaluated on a case-by-case basis for potential partial funding from *Duke Energy Ohio, Inc*.
12. Participants must be *Duke Energy Ohio, Inc* nonresidential, mercantile customers with the project sites in the *Duke Energy Ohio, Inc* service territory.
13. Customers or trade allies may not use any *Duke Energy* logo without prior written permission.
14. Only trade allies registered with *Duke Energy* are eligible to participate.
15. All equipment must be new. Used or rebuilt equipment is not eligible for rebates. All old existing equipment must be removed on retrofit projects.
16. Disclaimers: *Duke Energy Ohio, Inc*
 - a. does not endorse any particular manufacturer, product or system design within the program;
 - b. will not be responsible for any tax liability imposed on the customer as a result of the payment of rebates;
 - c. does not expressly or implicitly warrant the performance of installed equipment. (Contact your contractor for details regarding equipment warranties.);
 - d. is not responsible for the proper disposal/recycling of any waste generated or obsolete or old equipment as a result of this project;
 - e. is not liable for any damage caused by the installation of the equipment nor for any damage caused by the malfunction of the installed equipment; and
 - f. reserves the right to change or discontinue this program at any time. The acceptance of program applications is determined solely by *Duke Energy Ohio, Inc*.



The General Worksheet is part 2 of the application. Do not submit this file without submitting a completed Part1 Custom Application document file, which can be found at www.duke-energy.com. This worksheet is for all projects that are not easily submitted through one of the other worksheets

Before you complete this application, please note the following important criteria:

- Submitting this application does not guarantee an rebate will be approved.
- Rebates already decided to proceed.
- Electric demand and/or energy reductions must be well documented with auditable calculations.

- Incomplete applications will not be reviewed; all fields are required.

Refer to the complete list of Instructions and Disclaimers, found in the Mercantile Self Direct Custom Application Part 1 document.

**Please enter your information and data into the cells that are shaded.
Cells in white are locked and cannot be written over.**

Duke Energy Customer Contact Information (Match the information in Application Part 1):

Name	Kathy Ryan
Company	Wyoming City School

Equipment Vendor / Project Engineer Contact Information

Name	Jeff Haynay
Company	Motz Engineering

Before proceeding with the custom application, please verify that your project is not on the Self-Direct Prescriptive application.

The prescriptive rebate applications can be found at:

<http://www.duke-energy.com/ohio-large-business/smart-saver/mercantile-self-direct.asp>

Prescriptive rebate amounts are pre-approved.



For each project, answer the following questions (use one worksheet per project)

App No.	0
Rev.	0

Project Name:

How would you classify this project? (Place an x in all boxes that apply.)

Lighting	<input checked="" type="checkbox"/>	Heating/Cooling	<input checked="" type="checkbox"/>	Air Compressor	<input type="checkbox"/>	Energy Management System	<input checked="" type="checkbox"/>
VFD	<input checked="" type="checkbox"/>	Motors/Pumps	<input checked="" type="checkbox"/>	Process Equipment	<input type="checkbox"/>	Other, describe below:	<input type="text"/>

Brief Project Description

Describe the Baseline (see note 3) Equipment/System	Describe the Proposed High Efficiency Project
ASHRAE 90.1 minimum requirements for lighting and HVAC.	High efficiency boilers chillers and AHU's with variable speed drives.

If Existing Equipment is the Baseline, how many years of useful life remain or how many years until scheduled replacement?

Detailed Project Description Attached? (Required)

Operating Hours (see note 4)

24 x 7	Weekday		Saturday		Sunday		Weeks of Use in Year (see note 5)	Total Annual Hours of Use
	Start Hour	End Hour	Start Hour	End Hour	Start Hour	End Hour		
NO	6:00 AM	6:00 PM	8:00 AM	1:00 PM			40	2,600

Energy Savings

	Baseline (see Note 3)	Proposed	Savings	Describe how energy numbers were calculated
Annual Electric Energy	780,741 kWh	535,147 kWh	245,594 kWh	
Electric Demand	755 kW	671 kW	84 kW	
Calculations attached	Yes	Yes	(Required)	

Energy analysis was performed on building using the TRACE 700 program.

Simple Payback

Average electric rate (\$/kWh) on the applicable accounts (see note 6)	\$0.10
Estimated annual electric savings	\$24,559
Other annual savings in addition to electric savings, such as operations, maintenance, other fuels	
Incremental cost to implement the project (equipment & installation) (see note 7)	\$378,000.00
Copy of vendor proposal is attached (see note 8)	Yes
Simple Electric Payback in years (see note 9)	15.39125549
Total Payback in years	15.39125549

3 Baseline

Retrofit projects: the existing equipment is the baseline.
 New construction projects: the baseline is the standard option in today's market, taking into account any applicable organizational, local, state or federal codes or standards currently in effect.

4 Operating Hours

Describe when the equipment is typically used. If the project is proposed for more than one site, provide any variations in operating hours between the sites on a separate sheet.

5 Weeks of Use in Year

If the equipment is not in use 52 weeks during the year (for example, during holiday or summer break), provide an explanation of when usage is not expected and why:

6 Average electric rate (\$/kWh)

If you do not know your average electric rate, use \$0.10/kWh.

7 Incremental cost to implement the project

Costs exclude self installation costs. Retrofit projects, incremental cost is the total cost of the proposed project. New construction or where the existing equipment must be replaced anyway, then incremental cost is the premium of the proposed high efficiency project over baseline.

8 Copy of vendor invoice is attached

Vendor invoices detailing costs of the project are always required.
 New construction projects or where the existing equipment must be replaced anyway, vendor proposal of baseline must also be attached.

9 Simple Electric Payback

If the simple electric payback is less than 1 year, the rebate structure is affected. Double check average electric rate for correct payback.



Project Description

The Wyoming middle school is located at 17 Wyoming Avenue in the community of Wyoming, Ohio. The project includes the renovation of the four story existing building and the replacement of approximately 46,500 square feet which will be placed where the existing gym and band room existed. The project will provide small group learning areas, improved classroom space, new science & math technology wing, improved musical facilities, new roof, new gymnasium, improved secure at entrances, new cafeteria, updated infrastructure and a new building automation system. This project incorporates sustainable designs and energy efficient equipment to reduce operating cost. The sustainable design will include the use of day light to reduce the needs of the electrical illumination, rain harvesting to provide irrigation and solar panel to reduce the need for commercial electrical energy. The project was designed to achieve the LEED™ 'Certified' level of sustainability (the possible ratings are Certified, Silver, Gold, and Platinum) under the US Green Building Council's Leadership in Energy and Environmental Design (LEED™) Green Building Rating System™.



12/8/2015

Kathy Ryan
WYOMING CITY SCHOOLS - 3980380701
17 WYOMING AVE
CINCINNATI OH 45215-4303

Subject: Your Application for a Duke Energy Mercantile Self-Direct Rebate CMO15-0000052114

Dear Kathy Ryan,

Thank you for your Duke Energy Mercantile Self Direct rebate application. As noted in the Energy Conservation Measure (ECM) chart on page 2, a total rebate of \$1,765.00 has been proposed for your project completed in the 2015 calendar years. **All Self Direct Rebates are contingent upon approval by the Public Utilities Commission of Ohio (PUCO).**

At your earliest convenience, please indicate if you accept this rebate by:

- providing your signature on Page 2
- completing the PUCO-required affidavit on Page 3

Please return the documents to my attention via fax at 513.629.5572 or email to customprocessing@duke-energy-energyefficiency.com. Upon receipt, Duke Energy will submit the necessary documentation to PUCO. Following PUCO's approval, Duke Energy will remit payment.

We value your business and look forward to working with you on this and future energy efficiency projects. We hope you will consider our Smart Saver® incentives, when applicable. Please contact me if you have any questions.

Sincerely,

A handwritten signature in cursive script that reads "Megan Fox".

Megan Fox
Program Manager
Custom Incentives

cc:

Jeff Haynay



**Please indicate your response to this rebate offer
within 30 days of receipt.**

Rebate is accepted.

Rebate is declined.

By accepting this rebate, WYOMING CITY SCHOOLS - 3980380701 affirms its intention to commit and integrate the energy efficiency projects listed on the following pages into Duke Energy's peak demand reduction, demand response and/or energy efficiency programs.

Additionally, WYOMING CITY SCHOOLS - 3980380701 also agrees to serve as joint applicant in any future filings necessary to secure approval of this arrangement as required by PUCO and to comply with any information and reporting requirements imposed by rule or as part of that approval.

Finally, WYOMING CITY SCHOOLS - 3980380701 affirms that all application information submitted to Duke Energy pursuant to this rebate offer is true and accurate. Information in question would include, but not be limited to, project scope, equipment specifications, equipment operational details, project costs, project completion dates, and the quantity of energy conservation measures installed.

If rebate is accepted, will you use the monies to fund future energy efficiency and/or demand reduction projects? Yes No

Customer Signature

Printed Name

Date



Proposed Rebate Amounts

Measure ID	Energy Conservation Measure	Proposed Rebate Amount
ECM-1	Wyoming Middle School - VFD & S/R Fans	\$1,765 per project X 1
	Total	\$1,765.00



Application to Commit Energy Efficiency/Peak Demand Reduction Programs

Case No.: ____ - ____ -EL-EEC

State of _____ :

_____, Affiant, being duly sworn according to law, deposes and says that:

1. I am the duly authorized representative of:

[INSERT CUSTOMER OR EDU COMPANY NAME AND ANY APPLICABLE NAME(S) DOING BUSINESS AS]

2. I have personally examined all the information contained in the foregoing application, including any exhibits and attachments. Based upon my examination and inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete.

3. I am aware of fines and penalties which may be imposed under Ohio Revised Code Sections 2921.11, 2921.31, 4903.02, 4903.03, and 4903.99 for submitting false information.

SIGNATURE OF AFFIANT & TITLE

Sworn and subscribed before me this ____ day of _____, _____
DAY MONTH YEAR

SIGNATURE OF OFFICIAL ADMINISTERING OATH

PRINT NAME AND TITLE

My commission expires on _____
DATE

Energy Cost Budget / PRM Summary

By Heapy Engineering

Project Name:	Date: October 09, 2013
City:	Weather Data: Cincinnati OH 8760 JJT

Note: The percentage displayed for the "Proposed/ Base %" column of the base case is actually the percentage of the total energy consumption.

* Denotes the base alternative for the ECB study.

		* Alt-1 Wyoming Local Schools			Alt-2 90-1-2007 Baseline		
		Energy 10 ⁶ Btu/yr	Proposed / Base %	Peak kBtuh	Energy 10 ⁶ Btu/yr	Proposed / Base %	Peak kBtuh
Lighting - Conditioned	Electricity	595.4	20	364	767.3	129	447
Space Heating	Gas	1,149.4	39	5,023	3,050.1	265	8,862
Space Cooling	Electricity	175.6	6	983	582.8	332	1,162
Pumps	Electricity	57.6	2	140	118.4	205	65
Heat Rejection	Electricity	43.7	1	156	36.1	83	85
Fans - Conditioned	Electricity	412.7	14	283	620.8	150	477
Receptacles - Conditioned	Electricity	540.7	18	362	538.2	100	361
Total Building Consumption		2,975.3			5,713.7		

		* Alt-1 Wyoming Local Schools	Alt-2 90-1-2007 Baseline
Total	Number of hours heating load not met	126	262
	Number of hours cooling load not met	91	26

		* Alt-1 Wyoming Local Schools		Alt-2 90-1-2007 Baseline	
		Energy 10 ⁶ Btu/yr	Cost/yr \$/yr	Energy 10 ⁶ Btu/yr	Cost/yr \$/yr
Electricity		1,825.8	64,762	2,663.6	98,278
Gas		1,149.4	5,747	3,050.1	15,251
Total		2,975	70,509	5,714	113,529

EQUIPMENT ENERGY CONSUMPTION

By Heapy Engineering

Alternative: 1 Wyoming Local Schools

----- Monthly Consumption -----

Equipment - Utility	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
Lights													
Electric (kWh)	18,844.8	17,038.2	19,901.9	18,066.4	19,373.3	2,042.9	2,788.5	2,044.9	18,066.4	19,373.3	18,595.0	18,316.3	174,451.8
Peak (kW)	106.7	106.7	106.7	106.7	106.7	10.4	10.4	10.4	106.7	106.7	106.7	106.7	106.7
Misc. Ld													
Electric (kWh)	15,770.7	14,268.7	17,272.7	15,019.7	16,521.7	5,584.8	5,077.1	5,838.7	15,019.7	16,521.7	15,770.7	15,019.7	157,686.0
Peak (kW)	105.8	105.8	105.8	105.8	105.8	31.7	31.7	31.7	105.8	105.8	105.8	105.8	105.8
Energy Recovery Parasitics													
Electric (kWh)	84.0	76.0	92.0	80.0	88.0	0.0	0.0	0.0	80.0	88.0	84.0	80.0	752.0
Peak (kW)	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4
Cooling Coil Condensate													
Recoverable Water (1000gal)	0.1	0.1	0.7	1.9	3.6	1.9	1.9	2.3	7.3	1.7	1.1	0.2	22.9
Peak (1000gal/Hr)	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1
Cpl 1: Chillers [Sum of dsn coil capacities=300.1 tons]													
Clg 1 □ [Clg Nominal Capacity/F.L.Rate=300 tons / 321.4 kW] (Cooling Equipment)													
Electric (kWh)	0.0	0.0	0.0	4,643.1	10,042.5	4,742.2	4,556.7	4,416.6	15,187.5	0.0	0.0	0.0	43,588.5
Peak (kW)	0.0	0.0	0.0	155.3	202.8	56.1	48.9	49.1	222.1	0.0	0.0	0.0	222.1
Wyoming Screw [Design Heat Rejection/F.L.Rate=391.4 tons / 45.80 kW]													
Electric (kWh)	0.0	0.0	0.0	1,090.0	2,186.9	1,584.5	1,742.8	1,701.9	3,038.5	0.0	0.0	0.0	11,344.6
Peak (kW)	0.0	0.0	0.0	25.5	32.9	10.3	9.4	9.7	36.1	0.0	0.0	0.0	36.1
Var vol chill water pump (Cooling Plant Circulation Pump)													
Electric (kWh)	10.0	6.8	137.0	411.9	826.0	673.2	762.1	742.5	1,131.5	291.0	105.6	22.4	5,120.1
Peak (kW)	0.6	0.0	3.4	9.0	14.0	3.5	3.3	3.4	16.8	3.4	3.4	1.3	16.8
Clg 1 □ [Clg Nominal Capacity/F.L.Rate=70 tons / 83.17 kW] (Cooling Equipment)													
Electric (kWh)	38.6	19.5	1,558.2	0.0	0.0	0.0	0.0	0.0	0.0	3,445.1	1,306.5	131.2	6,499.2
Peak (kW)	4.3	0.1	63.4	0.0	0.0	0.0	0.0	0.0	0.0	64.8	60.4	10.0	64.8
Wyoming Scroll [Design Heat Rejection/F.L.Rate=93.65 tons / 9.74 kW]													
Electric (kWh)	6.4	2.2	298.0	0.0	0.0	0.0	0.0	0.0	0.0	661.0	238.1	31.8	1,237.4
Peak (kW)	1.2	0.0	9.2	0.0	0.0	0.0	0.0	0.0	0.0	9.2	9.1	2.7	9.2
Cpl 2: ACs [Sum of dsn coil capacities=6.00 tons]													

EQUIPMENT ENERGY CONSUMPTION

By Heapy Engineering

Alternative: 1 Wyoming Local Schools

----- Monthly Consumption -----

Equipment - Utility	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
Cpl 2: ACs [Sum of dsn coil capacities=6.00 tons]													
Air-cooled unitary - 004 [Clg Nominal Capacity/F.L.Rate=6 tons / 3.92 kW] [**Orig F.L.Rate=5.00 kW] (Cooling Equipment)													
Electric (kWh)	75.0	68.5	87.7	85.6	106.5	25.6	28.6	28.4	102.2	92.3	80.5	72.8	853.5
Peak (kW)	0.5	0.5	0.6	0.7	0.9	0.2	0.2	0.1	1.0	0.6	0.6	0.5	1.0
Condenser fan for Heat Pump [Design Heat Rejection/F.L.Rate=7.37 tons / 0.88 kW]													
Electric (kWh)	20.9	19.1	24.1	22.9	28.0	6.3	7.0	7.0	26.4	25.0	22.2	20.3	229.2
Peak (kW)	0.1	0.1	0.2	0.2	0.2	0.0	0.0	0.0	0.3	0.2	0.2	0.1	0.3
Cntl panel & interlocks - 0.1 KW (Misc Accessory Equipment)													
Electric (kWh)	43.0	39.4	41.0	42.5	42.4	45.8	50.8	46.0	42.6	42.4	41.1	44.9	521.9
Peak (kW)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Hpl 1: Condensing Boilers [Sum of dsn coil capacities=7,125 mbh]													
Htg 1 [Nominal Capacity/F.L.Rate=2,375 mbh / 25.54 Therms] (Heating Equipment)													
Gas (therms)	2,905.7	2,027.5	1,266.0	306.3	22.3	92.0	77.5	97.1	11.5	336.8	1,267.2	2,225.6	10,635.3
Peak (therms/Hr)	25.5	25.5	25.5	25.5	1.2	1.1	0.9	0.9	0.3	25.5	25.5	25.5	25.5
Default water pump (Misc Accessory Equipment)													
Electric (kWh)	1,235.5	1,093.3	954.9	785.4	744.4	350.8	311.8	358.6	641.1	841.9	931.5	1,192.7	9,441.8
Peak (kW)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Hot Water Var. Vol. Pump (Misc Accessory Equipment)													
Electric (kWh)	569.6	392.7	224.5	75.7	27.6	42.1	36.4	44.0	20.4	78.0	223.4	419.2	2,153.6
Peak (kW)	20.4	16.0	11.9	6.6	0.4	0.4	0.3	0.3	0.2	3.4	11.7	18.0	20.4
Htg 2 [Nominal Capacity/F.L.Rate=2,375 mbh / 25.54 Therms] (Heating Equipment)													
Gas (therms)	292.4	202.1	73.9	11.6	0.0	0.0	0.0	0.0	0.0	0.5	68.3	196.5	845.2
Peak (therms/Hr)	24.5	21.3	17.6	10.9	0.0	0.0	0.0	0.0	0.0	0.5	17.3	22.8	24.5
Default water pump (Misc Accessory Equipment)													
Electric (kWh)	46.8	37.0	19.5	3.9	0.0	0.0	0.0	0.0	0.0	2.0	21.4	39.0	169.5
Peak (kW)	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0
Hpl 2: Electric Defrost [Sum of dsn coil capacities=0 mbh]													
Hpl 3: Baseline Heating [Sum of dsn coil capacities=32.44 mbh]													

EQUIPMENT ENERGY CONSUMPTION

By Heapy Engineering

Alternative: 1 Wyoming Local Schools

----- Monthly Consumption -----

Equipment - Utility	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
Hpl 3: Baseline Heating [Sum of dsn coil capacities=32.44 mbh]													
Gas-fired heat exchanger - 005 [Nominal Capacity/F.L.Rate=32.44 mbh / 0.41 Therms] (Heating Equipment)													
Gas (therms)	4.5	3.0	1.3	0.6	0.0	0.0	0.0	0.0	0.0	0.2	1.3	3.0	13.9
Peak (therms/Hr)	0.2	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.2
Sys 1: AHU-1													
FC Centrifugal var freq drv [DsnAirflow/F.L.Rate=21,629 cfm / 19.91 kW] (Main Clg Fan)													
Electric (kWh)	1,498.7	1,282.6	1,921.0	2,621.3	3,754.5	957.4	1,147.6	1,103.9	4,132.0	2,673.3	1,699.4	1,523.7	24,315.4
Peak (kW)	7.8	8.1	20.0	20.0	20.0	3.6	3.7	4.0	20.0	20.0	20.0	7.8	20.0
FC Centrifugal var freq drv [DsnAirflow/F.L.Rate=21,629 cfm / 4.85 kW] (System Exhaust Fan)													
Electric (kWh)	426.6	372.7	568.7	655.1	835.8	58.9	57.7	54.8	722.9	642.9	480.1	401.3	5,277.5
Peak (kW)	3.1	3.7	4.0	4.5	4.5	0.9	0.9	0.9	4.9	4.0	4.0	3.6	4.9
Sys 2: AHU-2													
FC Centrifugal var freq drv [DsnAirflow/F.L.Rate=9,671 cfm / 9.69 kW] (Main Clg Fan)													
Electric (kWh)	1,926.9	1,656.9	1,784.3	1,526.5	1,604.9	676.2	620.3	717.3	1,527.4	1,636.1	1,674.6	1,787.0	17,138.5
Peak (kW)	9.7	9.7	9.7	9.7	7.4	3.8	3.8	5.6	9.7	7.4	9.7	9.7	9.7
FC Centrifugal var freq drv [DsnAirflow/F.L.Rate=9,671 cfm / 3.80 kW] (System Exhaust Fan)													
Electric (kWh)	400.7	354.3	514.5	517.1	461.4	132.3	102.0	133.5	358.2	524.4	457.1	396.6	4,352.1
Peak (kW)	2.7	2.5	3.8	3.8	2.9	1.5	1.5	2.2	3.5	3.5	3.4	3.5	3.8
Sys 3: AHU-3													
FC Centrifugal var freq drv [DsnAirflow/F.L.Rate=5,456 cfm / 6.60 kW (**Orig F.L.Rate=8.13 kW)] (Main Clg Fan)													
Electric (kWh)	1,197.3	1,027.7	1,039.8	873.8	1,018.8	449.8	436.2	462.2	905.0	896.2	968.5	1,117.5	10,392.8
Peak (kW)	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	5.5	6.6	6.6	6.6
FC Centrifugal var freq drv [DsnAirflow/F.L.Rate=5,456 cfm / 3.03 kW (**Orig F.L.Rate=3.73 kW)] (System Exhaust Fan)													
Electric (kWh)	172.9	159.5	250.8	269.1	283.8	78.2	55.5	74.5	183.1	274.5	223.5	182.3	2,207.6
Peak (kW)	1.4	1.4	2.6	2.8	3.0	3.0	3.0	3.0	3.0	2.6	2.2	2.0	3.0
Sys 4: UV													
FC Centrifugal var freq drv [DsnAirflow/F.L.Rate=66,081 cfm / 9.32 kW] (Main Clg Fan)													
Electric (kWh)	2,049.2	1,818.0	2,159.5	1,874.0	2,079.7	285.2	317.8	289.8	1,888.9	2,059.1	1,976.9	1,941.0	18,738.9
Peak (kW)	9.4	9.4	9.4	9.4	9.4	1.4	1.4	1.2	9.4	9.4	9.4	9.4	9.4

EQUIPMENT ENERGY CONSUMPTION

By Heapy Engineering

Alternative: 1 Wyoming Local Schools

----- Monthly Consumption -----

Equipment - Utility	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
Sys 5: FC													
FC Centrifugal var freq drv [DsnAirflow/F.L.Rate=30,283 cfm / 5.67 kW] (Main Clg Fan)													
Electric (kWh)	1,155.9	1,034.5	1,225.5	1,058.4	1,130.8	134.8	165.7	145.0	1,024.0	1,162.8	1,124.2	1,096.4	10,458.1
Peak (kW)	5.7	5.6	5.6	5.6	5.2	0.6	0.6	0.6	5.1	5.5	5.6	5.7	5.7
FC Centrifugal const vol [DsnAirflow/F.L.Rate=27,475 cfm / 5.59 kW] (System Exhaust Fan)													
Electric (kWh)	281.1	261.7	417.1	494.8	600.3	34.9	38.4	36.4	468.0	510.2	349.7	281.2	3,773.7
Peak (kW)	1.7	1.8	4.9	4.9	5.0	0.6	0.7	0.6	5.2	5.2	3.0	1.8	5.2
FC Centrifugal const vol [DsnAirflow/F.L.Rate=3,600 cfm / 7.46 kW] (Opt. Ventilation Fan)													
Electric (kWh)	1,566.0	1,416.8	1,715.1	1,491.4	1,640.6	0.0	0.0	0.0	1,491.4	1,640.6	1,566.0	1,491.4	14,019.2
Peak (kW)	7.5	7.5	7.5	7.5	7.5	0.0	0.0	0.0	7.5	7.5	7.5	7.5	7.5
Sys 6: HEATING ONLY													
Unit vent supply fan [DsnAirflow/F.L.Rate=2,564 cfm / 0.87 kW] (Main Htg Fan)													
Electric (kWh)	206.9	178.1	204.9	176.7	191.9	0.0	0.0	0.0	174.5	192.3	187.1	192.2	1,704.4
Peak (kW)	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9
Sys 7: AHU-4													
FC Centrifugal var freq drv [DsnAirflow/F.L.Rate=3,438 cfm / 3.73 kW] (Main Clg Fan)													
Electric (kWh)	708.8	613.9	719.1	629.5	688.7	436.4	417.8	463.7	630.8	676.1	647.2	653.0	7,284.9
Peak (kW)	3.7	3.7	3.7	3.7	3.7	3.6	3.6	3.6	3.7	3.7	3.7	3.7	3.7
FC Centrifugal var freq drv [DsnAirflow/F.L.Rate=3,390 cfm / 2.24 kW] (System Exhaust Fan)													
Electric (kWh)	94.8	78.5	94.9	90.0	73.7	71.8	32.0	7.1	59.6	85.5	84.6	90.6	863.0
Peak (kW)	1.6	1.3	2.2	2.2	2.2	1.9	1.9	0.2	2.2	2.2	2.2	2.2	2.2
Sys 8: SPLIT AC													
FC Centrifugal const vol [DsnAirflow/F.L.Rate=2,140 cfm / 0.20 kW] (Main Clg Fan)													
Electric (kWh)	42.9	38.6	46.4	40.5	44.4	3.0	3.4	3.4	40.5	44.4	42.4	40.8	390.7
Peak (kW)	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2

EQUIPMENT ENERGY CONSUMPTION

By Heapy Engineering

Alternative: 2 90-1-2007 Baseline

----- Monthly Consumption -----

Equipment - Utility	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
Lights													
Electric (kWh)	24,332.5	22,002.8	25,884.5	23,297.2	25,108.5	2,466.8	3,208.8	2,484.6	23,297.2	25,108.5	24,073.2	23,556.4	224,821.0
Peak (kW)	130.9	130.9	130.9	130.9	130.9	10.8	10.8	10.8	130.9	130.9	130.9	130.9	130.9
Misc. Ld													
Electric (kWh)	15,770.7	14,268.7	17,272.7	15,019.7	16,521.7	5,584.8	5,077.1	5,838.7	15,019.7	16,521.7	15,770.7	15,019.7	157,686.0
Peak (kW)	105.8	105.8	105.8	105.8	105.8	31.7	31.7	31.7	105.8	105.8	105.8	105.8	105.8
Cooling Coil Condensate													
Recoverable Water (1000gal)	0.1	0.1	1.1	3.2	6.8	0.6	0.5	0.5	12.7	2.8	2.0	0.2	30.3
Peak (1000gal/Hr)	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.2	0.1	0.1	0.0	0.2
Cpl 1: Sys 3 [Sum of dsn coil capacities=1.30 tons]													
65-135 [Clg Nominal Capacity/F.L.Rate=1.30 tons / 0.74 kW] [**Orig F.L.Rate=1.42 kW] (Cooling Equipment)													
Electric (kWh)	46.9	42.8	57.3	60.0	79.6	47.4	51.4	52.9	78.8	63.0	51.3	44.9	676.1
Peak (kW)	0.3	0.3	0.5	0.5	0.6	0.4	0.4	0.4	0.6	0.5	0.4	0.3	0.6
90.1 Min Air Cooled Condenser [Design Heat Rejection/F.L.Rate=1.53 tons / 0.08 kW]													
Electric (kWh)	2.3	2.4	5.1	7.0	9.8	4.3	4.7	4.9	9.6	7.2	4.6	2.8	64.7
Peak (kW)	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.1
Cntl panel & interlocks - 0.05 KW (Misc Accessory Equipment)													
Electric (kWh)	10.5	10.4	11.5	10.0	13.6	29.5	33.1	30.1	12.8	11.0	10.5	10.9	193.8
Peak (kW)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Cpl 2: Sys 5 (240-760) [Sum of dsn coil capacities=71.94 tons]													
Air-cooled unitary - 008 [Clg Nominal Capacity/F.L.Rate=71.94 tons / 70.94 kW] [**Orig F.L.Rate=88.09 kW] (Cooling Equipment)													
Electric (kWh)	585.6	426.8	1,024.9	2,172.4	4,313.9	2,374.6	2,836.7	2,408.9	5,461.6	1,837.5	998.7	520.2	24,961.8
Peak (kW)	25.1	24.2	28.5	39.6	42.8	31.0	30.8	31.0	56.4	32.4	29.8	25.8	56.4
90.1 Min Air Cooled Condenser [Design Heat Rejection/F.L.Rate=93.59 tons / 5.17 kW]													
Electric (kWh)	12.1	10.1	57.2	141.0	291.3	145.0	174.3	148.3	372.1	117.9	54.4	16.1	1,539.6
Peak (kW)	0.6	0.2	1.7	2.8	3.1	0.7	0.7	0.7	4.2	2.1	1.9	0.6	4.2
Cntl panel & interlocks - 0.05 KW (Misc Accessory Equipment)													
Electric (kWh)	9.8	8.5	10.3	9.3	11.1	24.3	31.0	28.0	10.8	9.8	9.1	9.6	171.3
Peak (kW)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Cpl 3: Sys 5 (760+) [Sum of dsn coil capacities=333.5 tons]													

EQUIPMENT ENERGY CONSUMPTION

By Heapy Engineering

Alternative: 2 90-1-2007 Baseline

----- Monthly Consumption -----

Equipment - Utility	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
Cpl 3: Sys 5 (760+) [Sum of dsn coil capacities=333.5 tons]													
Air-cooled unitary - 009 [Clg Nominal Capacity/F.L.Rate=333.5 tons / 341.1 kW] [**Orig F.L.Rate=421.3 kW] (Cooling Equipment)													
Electric (kWh)	2,004.6	1,594.1	7,595.5	15,658.7	26,074.4	12,030.3	12,985.1	12,042.0	30,822.2	14,149.3	6,556.3	2,250.5	143,763.1
Peak (kW)	120.6	116.1	164.9	210.4	210.9	149.8	148.6	149.0	283.2	191.6	170.0	125.0	283.2
90.1 Min Air Cooled Condenser [Design Heat Rejection/F.L.Rate=437.4 tons / 24.18 kW]													
Electric (kWh)	51.1	45.1	450.9	1,009.9	1,713.6	716.0	774.5	721.1	2,059.5	895.7	380.3	89.0	8,906.8
Peak (kW)	2.3	1.4	11.0	15.0	15.0	4.4	4.3	4.4	20.5	13.3	11.5	4.4	20.5
Cntl panel & interlocks - 0.05 KW (Misc Accessory Equipment)													
Electric (kWh)	12.6	11.4	14.4	13.3	17.9	24.7	26.5	25.5	16.5	13.8	12.6	12.0	201.0
Peak (kW)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Hpl 1: Baseline Boilers [Sum of dsn coil capacities=7,856 mbh]													
Htg 1 [Nominal Capacity/F.L.Rate=3,928 mbh / 61.38 Therms] (Heating Equipment)													
Gas (therms)	7,430.9	5,419.5	3,518.0	1,278.0	440.0	113.8	92.0	108.5	364.0	1,522.6	3,527.1	5,932.8	29,747.0
Peak (therms/Hr)	61.4	61.4	61.4	61.1	14.7	2.9	1.6	2.1	11.5	52.8	61.2	61.4	61.4
90.1 Min CV Hot Water pump (Misc Accessory Equipment)													
Electric (kWh)	4,436.4	3,982.6	3,719.9	2,985.4	1,994.3	1,122.5	883.7	955.3	1,713.6	3,325.8	3,899.0	4,382.6	33,401.1
Peak (kW)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
Hot Water Var. Vol. Pump (Misc Accessory Equipment)													
Electric (kWh)	366.8	266.1	169.7	66.2	25.8	7.6	6.1	7.1	21.5	77.2	168.1	288.9	1,471.1
Peak (kW)	7.2	6.9	3.9	3.0	0.7	0.2	0.1	0.1	0.6	2.1	3.5	6.1	7.2
Htg 2 [Nominal Capacity/F.L.Rate=3,928 mbh / 61.38 Therms] (Heating Equipment)													
Gas (therms)	203.3	116.9	35.8	4.1	0.0	0.0	0.0	0.0	0.0	0.0	16.1	99.0	475.3
Peak (therms/Hr)	25.2	24.1	10.4	4.1	0.0	0.0	0.0	0.0	0.0	0.0	7.5	21.2	25.2
90.1 Min CV Hot Water pump (Misc Accessory Equipment)													
Electric (kWh)	101.5	65.7	41.8	6.0	0.0	0.0	0.0	0.0	0.0	0.0	29.9	77.6	322.4
Peak (kW)	6.0	6.0	6.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	6.0	6.0
Hpl 2: Gas-Fired HX [Sum of dsn coil capacities=199.6 mbh]													
HX [Nominal Capacity/F.L.Rate=249.5 mbh / 3.12 Therms] (Heating Equipment)													
Gas (therms)	272.8	197.2	116.8	41.7	5.2	0.4	0.0	0.0	1.8	45.4	128.4	230.4	1,040.1
Peak (therms/Hr)	2.3	2.3	2.3	2.1	0.8	0.1	0.0	0.0	0.3	2.0	2.2	2.2	2.3

EQUIPMENT ENERGY CONSUMPTION

By Heapy Engineering

Alternative: 2 90-1-2007 Baseline

----- Monthly Consumption -----

Equipment - Utility	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
Sys 1: System 5 Flr 1													
90.1-04 Min VAV AF Centrifugal [DsnAirflow/F.L.Rate=49,119 cfm / 34.66 kW (**Orig F.L.Rate=48.11 kW)] (Main Clg Fan)													
Electric (kWh)	4,385.0	3,929.8	4,792.7	4,546.3	5,491.7	956.8	956.2	966.0	5,095.8	4,867.7	4,368.8	4,172.7	44,529.5
Peak (kW)	26.1	28.1	29.1	31.5	34.1	5.7	5.2	5.3	34.7	30.7	29.0	27.0	34.7
90.1-04 Min VAV AF Centrifugal [DsnAirflow/F.L.Rate=21,533 cfm / 34.66 kW (**Orig F.L.Rate=48.11 kW)] (System Exhaust Fan)													
Electric (kWh)	5,392.0	4,825.7	5,847.3	5,244.2	4,842.4	15.5	14.0	20.7	4,422.7	5,340.0	5,227.0	5,051.5	46,242.8
Peak (kW)	34.7	33.2	33.5	34.7	26.8	0.1	0.1	0.1	26.9	31.3	31.9	32.6	34.7
Sys 2: HEATING ONLY													
Unit vent supply fan [DsnAirflow/F.L.Rate=4,015 cfm / 1.42 kW] (Main Htg Fan)													
Electric (kWh)	389.2	330.6	355.4	296.0	313.2	0.4	0.0	0.1	284.0	321.1	330.2	361.2	2,981.3
Peak (kW)	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4
Sys 3: System 3													
FC Centrifugal const vol [DsnAirflow/F.L.Rate=694.5 cfm / 0.59 kW (**Orig F.L.Rate=0.65 kW)] (Main Clg Fan)													
Electric (kWh)	134.0	117.2	137.4	118.8	131.0	29.6	33.0	34.3	119.9	130.1	126.0	126.2	1,237.4
Peak (kW)	0.6	0.6	0.6	0.6	0.6	0.2	0.2	0.2	0.6	0.6	0.6	0.6	0.6
Sys 4: System 5 Flr 2													
90.1-04 Min VAV AF Centrifugal [DsnAirflow/F.L.Rate=29,792 cfm / 21.33 kW (**Orig F.L.Rate=24.28 kW)] (Main Clg Fan)													
Electric (kWh)	2,560.1	2,253.6	2,662.3	2,560.6	3,380.4	637.0	645.7	639.4	3,096.7	2,640.4	2,430.7	2,393.5	25,900.5
Peak (kW)	19.1	19.0	18.7	19.6	20.7	4.1	4.4	4.0	21.0	17.8	18.8	19.0	21.0
90.1-04 Min VAV AF Centrifugal [DsnAirflow/F.L.Rate=13,829 cfm / 21.33 kW (**Orig F.L.Rate=24.28 kW)] (System Exhaust Fan)													
Electric (kWh)	3,342.4	2,976.4	3,572.9	3,174.1	2,904.8	6.5	5.9	6.6	2,617.2	3,188.5	3,191.1	3,118.3	28,104.6
Peak (kW)	21.3	19.7	20.5	21.3	15.8	0.0	0.0	0.0	15.8	17.3	19.3	19.6	21.3
Sys 5: System 5 Flr 3													
90.1-04 Min VAV AF Centrifugal [DsnAirflow/F.L.Rate=16,355 cfm / 11.98 kW (**Orig F.L.Rate=11.98 kW)] (Main Clg Fan)													
Electric (kWh)	1,623.6	1,386.6	1,432.7	1,169.7	1,677.0	233.0	262.0	231.9	1,583.0	1,248.3	1,368.2	1,491.3	13,707.3
Peak (kW)	12.0	12.0	12.0	12.0	12.0	1.2	1.1	1.1	12.0	12.0	12.0	12.0	12.0
90.1-04 Min VAV AF Centrifugal [DsnAirflow/F.L.Rate=8,439 cfm / 11.98 kW (**Orig F.L.Rate=11.98 kW)] (System Exhaust Fan)													
Electric (kWh)	2,122.3	1,899.4	2,286.7	2,022.9	1,864.4	0.0	0.0	0.0	1,696.3	2,071.4	2,051.4	1,990.9	18,005.6
Peak (kW)	12.0	12.0	12.0	12.0	10.0	0.0	0.0	0.0	10.0	11.8	12.0	12.0	12.0

Performance Rating Details

By Heapy Engineering

Project Name:	Date: October 09, 2013
City:	Weather Data: Cincinnati OH 8760 JJT

Performance Rating Method Alternative: Alt-2 90-1-2007 Baseline

		0° Rotation		90° Rotation		180° Rotation		270° Rotation		Average	
		Energy 10 ⁶ Btu/yr	Peak kBtuh	Energy 10 ⁶ Btu/yr	Peak kBtuh	Energy 10 ⁶ Btu/yr	Peak kBtuh	Energy 10 ⁶ Btu/yr	Peak kBtuh	Energy 10 ⁶ Btu/yr	Peak kBtuh
Lighting - Conditioned	Electricity	767.3	447	767.3	447	767.3	447	767.3	447	767.3	447
Space Heating	Gas	3,126.2	8,887	3,072.6	8,930	2,975.6	8,939	3,026.1	8,693	3,050.1	8,862
Space Cooling	Electricity	580.1	1,161	575.7	1,161	589.4	1,165	586.2	1,161	582.8	1,162
Pumps	Electricity	120.1	65	117.2	66	117.5	66	118.7	65	118.4	66
Heat Rejection	Electricity	35.9	85	35.6	84	36.5	85	36.3	84	36.1	85
Fans - Conditioned	Electricity	616.8	470	619.2	479	625.5	484	621.8	474	620.8	477
Receptacles - Conditioned	Electricity	538.2	361	538.2	361	538.2	361	538.2	361	538.2	361
Total Building Consumption		5,784.6	11,476	5,725.8	11,527	5,650.1	11,547	5,694.5	11,285	5,713.7	11,459

	0° Rotation	90° Rotation	180° Rotation	270° Rotation	Average
Electric (\$)	\$97,764	\$98,198	\$98,851	\$98,300	\$98,278
Gas (\$)	\$15,631	\$15,363	\$14,878	\$15,130	\$15,251
Total Building Cost (\$)	\$113,395	\$113,561	\$113,729	\$113,430	\$113,529

ENTERED VALUES PLANTS

By Heapy Engineering

Cooling Plant: Chillers

Sizing method: Peak
 Heat rejection type: None
 Secondary distribution pump: Var vol chill water pump
 Secondary pump consumption: 43 hp
 Thermal storage type: None
 Thermal storage capacity: 0 ton-hr
 Thermal storage schedule: Off (0%)

Geothermal Loop

TLoop Ent Bldg:	None	Flow scheme:	Fully mixed
TLoop schedule:	None	Loop fluid glycol:	0%
Flow rate:	100.00% of condenser flow rate	Heat exchanger approach:	0°F
Loop pump	None		
Pump F.L. rate:	0.00ft water		

Equipment tag: 1	Cooling Type: Wyoming Screw	Chillers
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Operating Mode Capacity	Energy Rate	Pumps Type	Full Load Consumption
Cooling: 300.0 tons	11.2000 EER (compressor only)	Chilled water: Constant volume pump	0.00 Ft Water
Heat recovery:		Condenser water: None	
Tank charging:		Heat recovery or aux cond: None	
Tank charging & heat recovery:		Free cooling: None	
Heat Rejection and Thermal Storage		Equipment Options	
Heat rejection type: Wyoming Screw	Sequencing type: Single	Free clg type: None	Energy source:
Thermal storage type: None	Demand lim priority:	Fluid cooler type:	Reject cond heat: Heat Reject.Equip
T-storage capacity: 0 ton-hr	Dsn chilled water delta T: 14 °F	Load shed econ: no	Cond. heat to plant:
T-storage schedule: Storage	Dsn cond water delta T: 30 °F	Evap precooling: no	Equip schedule: Wyoming Cooling Season
		Hot gas reheat No	
Reset Based On	Reset Curve	Max Reset TD	
Chilled Water: None	None	0°F	
Condenser Water: None	None	0°F	

Equipment tag: 2	Cooling Type: Wyoming Scroll	Chillers
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Operating Mode Capacity	Energy Rate	Pumps Type	Full Load Consumption
Cooling: 70.0 tons	10.1000 EER (compressor only)	Chilled water: Constant volume pump	0.00 Ft Water
Heat recovery:		Condenser water: None	
Tank charging:		Heat recovery or aux cond: None	
Tank charging & heat recovery:		Free cooling: None	
Heat Rejection and Thermal Storage		Equipment Options	
Heat rejection type: Wyoming Scroll	Sequencing type: Single	Free clg type: None	Energy source:
Thermal storage type: None	Demand lim priority:	Fluid cooler type:	Reject cond heat: Heat Reject.Equip
T-storage capacity: 0 ton-hr	Dsn chilled water delta T: 14 °F	Load shed econ: no	Cond. heat to plant:
T-storage schedule: Storage	Dsn cond water delta T: 30 °F	Evap precooling: no	Equip schedule: Wyoming OFF cooling season
		Hot gas reheat No	
Reset Based On	Reset Curve	Max Reset TD	
Chilled Water: None	None	0°F	
Condenser Water: None	None	0°F	

ENTERED VALUES PLANTS

By Heapy Engineering

Cooling Plant: ACs

Sizing method: Peak
 Heat rejection type: None
 Secondary distribution pump: None
 Secondary pump consumption: 0 Ft Water
 Thermal storage type: None
 Thermal storage capacity: 0 ton-hr
 Thermal storage schedule: Off (0%)

Geothermal Loop

TLoop Ent Bldg:	None	Flow scheme:	Fully mixed
TLoop schedule:	None	Loop fluid glycol:	0%
Flow rate:	100.00% of condenser flow rate	Heat exchanger approach:	0°F
Loop pump:	None		
Pump F.L. rate:	0.00ft water		

Equipment tag: Air-cooled unitary - 004	Cooling Type: Default air-cooled unitary	ACs
Operating Mode Cooling: 6.0 tons Heat recovery: Tank charging: Tank charging & heat recovery:	Capacity 6.0 tons Energy Rate 14.4000 Packaged EER	Pumps Chilled water: None Condenser water: None Heat recovery or aux cond: None Free cooling: None
Heat Rejection and Thermal Storage		Equipment Options
Heat rejection type: Condenser fan for Heat Pump Thermal storage type: None T-storage capacity: 0 ton-hr T-storage schedule: Storage	Sequencing type: Single Demand lim priority: Dsn chilled water delta T: 10 °F Dsn cond water delta T: 10 °F	Free clg type: None Fluid cooler type: None Load shed econ: no Evap precooling: no Hot gas reheat No
Reset Based On		Energy source: Reject cond heat: Heat Reject.Equip Cond. heat to plant: Equip schedule: Available (100%)
Chilled Water: None Condenser Water: None	Reset Curve None None	Max Reset TD 0°F 0°F

Package energy breakout	Primary fan	Secondary fan	Exhaust fan	Optional ventilation fan	Condenser fan
Included in full load energy rate	Yes	No	No	No	Yes

Apply same fans for heat recovery energy breakout: No

ENTERED VALUES PLANTS

By Heapy Engineering

Heating Plant: Baseline Heating

Sizing method: Peak
 Cogeneration type: None
 Secondary distribution pump: None
 Secondary pump consumption: 0 Ft Water
 Thermal storage type: None
 Thermal storage capacity: 0 ton-hr

Equipment tag: Gas-fired heat exchanger - 005	Heating Type: 90.1-07 Min Gas Furnace < 225 MBh	Baseline Heating
Heating capacity: Energy rate: 80.00 % Effic.	Thermal storage type: None Thermal storage capacity: 0 ton-hr Thermal storage schedule: Storage Equipment schedule: Available (100%) Demand limiting priority:	

Heating Plant: Condensing Boilers

Sizing method: Peak
 Cogeneration type: None
 Secondary distribution pump: Hot Water Var. Vol. Pump
 Secondary pump consumption: 22 hp
 Thermal storage type: None
 Thermal storage capacity: 0 ton-hr

Equipment tag: 1	Heating Type: Wyoming Condensing	Condensing Boilers
Heating capacity: 2,375.0 Mbh Energy rate: 93.00 % Effic. Hot water pump type: Default water pump Hot water pump cons: 1.96 hp	Thermal storage type: None Thermal storage capacity: 0 ton-hr Thermal storage schedule: Storage Equipment schedule: Available (100%) Demand limiting priority:	

Equipment tag: 2	Heating Type: Wyoming Condensing	Condensing Boilers
Heating capacity: 2,375.0 Mbh Energy rate: 93.00 % Effic. Hot water pump type: Default water pump Hot water pump cons: 1.96 hp	Thermal storage type: None Thermal storage capacity: 0 ton-hr Thermal storage schedule: Storage Equipment schedule: Available (100%) Demand limiting priority:	

Equipment tag: 3	Heating Type: Wyoming Condensing	Condensing Boilers
Heating capacity: 2,375.0 Mbh Energy rate: 93.00 % Effic. Hot water pump type: Default water pump Hot water pump cons: 1.96 hp	Thermal storage type: None Thermal storage capacity: 0 ton-hr Thermal storage schedule: Storage Equipment schedule: Available (100%) Demand limiting priority:	

ENTERED VALUES PLANTS

By Heapy Engineering

Heating Plant: Electric Defrost

Sizing method: Peak
Cogeneration type: None
Secondary distribution pump: None
Secondary pump consumption: 0 Ft Water
Thermal storage type: None
Thermal storage capacity: 0 ton-hr

Equipment tag: elec

Heating Type: Default electric resistance

Electric Defrost

Heating capacity: 50.0 Mbh
Energy rate: 100.00 % Effic.

Thermal storage type: None
Thermal storage capacity: 0 ton-hr
Thermal storage schedule: Storage

Equipment schedule: Available (100%)
Demand limiting priority:

Base Utilities

Plant assigned to: Stand-alone
Type: None

Description:
Demand limiting priority:

Schedule: Off (0%)
Hourly demand: 0.00 kW

Miscellaneous accessories

Plant assigned to: Chillers
Equipment tag: All

Type: None
Description:

Schedule: Off (0%)
Energy: 0.00 kW

ENTERED VALUES PLANTS

By Heapy Engineering

Heat rejection type: 90.1 Min Air Cooled Condenser	Sequencing type: Single	Free clg type: None	Energy source:
Thermal storage type: None	Demand lim priority:	Fluid cooler type: None	Reject cond heat: Heat Reject.Equip
T-storage capacity: 0 ton-hr	Dsn chilled water delta T: 12 °F	Load shed econ: no	Cond. heat to plant:
T-storage schedule: Storage	Dsn cond water delta T: 0 °F	Evap precooling: no	Equip schedule: Available (100%)
		Hot gas reheat No	
Reset Based On		Reset Curve	Max Reset TD
Chilled Water: None		None	10,000°F
Condenser Water: None		None	0°F

Package energy breakout	Primary fan	Secondary fan	Exhaust fan	Optional ventilation fan	Condenser fan
Included in full load energy rate	Yes	No	No	No	Yes

Apply same fans for heat recovery energy breakout: No

Cooling Plant: Sys 5 (760+)

Sizing method: Peak
 Heat rejection type: None
 Secondary distribution pump: None
 Secondary pump consumption: 0 Ft Water
 Thermal storage type: None
 Thermal storage capacity: 0 ton-hr
 Thermal storage schedule: Off (0%)

Geothermal Loop			
TLoop Ent Bldg:	None	Flow scheme:	Fully mixed
TLoop schedule:	None	Loop fluid glycol:	0%
Flow rate:	100.00% of condenser flow rate	Heat exchanger approach:	0°F
Loop pump	None		
Pump F.L. rate:	0.00ft water		

Equipment tag: Air-cooled unitary - 009

Cooling Type: 90.1-07 Min AC SS/SP Other > 760 MBh

Sys 5 (760+)

Operating Mode	Capacity	Energy Rate	Pumps	Type	Full Load Consumption
Cooling:	115.0 %Plant Capacity	9.5000 Packaged EER	Chilled water:	None	
Heat recovery:			Condenser water:	None	
Tank charging:			Heat recovery or aux cond:	None	
Tank charging & heat recovery:			Free cooling:	None	
Heat Rejection and Thermal Storage			Equipment Options		
Heat rejection type: 90.1 Min Air Cooled Condenser		Sequencing type: Single	Free clg type: None	Energy source:	
Thermal storage type: None		Demand lim priority:	Fluid cooler type: None	Reject cond heat: Heat Reject.Equip	
T-storage capacity: 0 ton-hr		Dsn chilled water delta T: 12 °F	Load shed econ: no	Cond. heat to plant:	
T-storage schedule: Storage		Dsn cond water delta T: 0 °F	Evap precooling: no	Equip schedule: Available (100%)	
			Hot gas reheat No		
Reset Based On		Reset Curve	Max Reset TD		
Chilled Water: None		None	10,000°F		
Condenser Water: None		None	0°F		

Package energy breakout	Primary fan	Secondary fan	Exhaust fan	Optional ventilation fan	Condenser fan
Included in full load energy rate	Yes	No	No	No	Yes

Apply same fans for heat recovery energy breakout: No

ENTERED VALUES PLANTS

By Heapy Engineering

Heating Plant: Baseline Boilers

Sizing method: Peak
 Cogeneration type: None
 Secondary distribution pump: Hot Water Var. Vol. Pump
 Secondary pump consumption: 15 hp
 Thermal storage type: None
 Thermal storage capacity: 0 ton-hr

Equipment tag: 1	Heating Type: 2007 Baseline HW >300 MBH	Baseline Boilers
Heating capacity: 62.5 %Plant Capacity Energy rate: 80.00 % Effic. Hot water pump type: 90.1 Min CV Hot Water pump Hot water pump cons: 19.00 Watt/gpm	Thermal storage type: None Thermal storage capacity: 0 ton-hr Thermal storage schedule: Storage Equipment schedule: Available (100%) Demand limiting priority:	
Equipment tag: 2	Heating Type: 2007 Baseline HW >300 MBH	Baseline Boilers
Heating capacity: 62.5 %Plant Capacity Energy rate: 80.00 % Effic. Hot water pump type: 90.1 Min CV Hot Water pump Hot water pump cons: 19.00 Watt/gpm	Thermal storage type: None Thermal storage capacity: 0 ton-hr Thermal storage schedule: Storage Equipment schedule: Available (100%) Demand limiting priority:	

Heating Plant: Gas-Fired HX

Sizing method: Peak
 Cogeneration type: None
 Secondary distribution pump: None
 Secondary pump consumption: 0 Ft Water
 Thermal storage type: None
 Thermal storage capacity: 0 ton-hr

Equipment tag: HX	Heating Type: 90.1 2004 gas fired furnace	Gas-Fired HX
Heating capacity: 125.0 %Plant Capacity Energy rate: 80.00 % Effic.	Thermal storage type: None Thermal storage capacity: 0 ton-hr Thermal storage schedule: Storage Equipment schedule: Available (100%) Demand limiting priority:	

Base Utilities

Plant assigned to: Stand-alone	Description:	Schedule: Off (0%)
Type: None	Demand limiting priority:	Hourly demand: 0.00 kW

Miscellaneous accessories

Plant assigned to: Sys 3	Type: None	Schedule: Off (0%)
Equipment tag: All	Description:	Energy: 0.00 kW

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 1020 - CORRIDOR

Zone Description: 1-02

System Description: AHU-1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 329 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 2,240.0 W Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <th style="text-align: center;">Cooling</th> <th style="text-align: center;">Heating</th> </tr> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 26.00 cfm</td> <td>26.00 cfm</td> </tr> <tr> <td>Vent Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 100.00 % Clg Airflow</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: VAV Min 50H/15C</td> <td></td> </tr> <tr> <td>Supply: 100.00 cfm</td> <td>100.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </table>	Cooling	Heating	Vent Type: None	None	Vent Value: 26.00 cfm	26.00 cfm	Vent Schedule: Available (100%)		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 100.00 % Clg Airflow	Max: 100.00 % Clg Airflow	Vav Sched: VAV Min 50H/15C		Supply: 100.00 cfm	100.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
Cooling	Heating																											
Vent Type: None	None																											
Vent Value: 26.00 cfm	26.00 cfm																											
Vent Schedule: Available (100%)																												
Infil Type: HEAPY	HEAPY																											
Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall																											
Infil Schedule: Available (100%)																												
Vav Airflow: Min: 100.00 % Clg Airflow	Max: 100.00 % Clg Airflow																											
Vav Sched: VAV Min 50H/15C																												
Supply: 100.00 cfm	100.00 To be calculated																											
Aux Supply: To be calculated	To be calculated																											
Room Exhaust:																												
Rm Exh Sched: Available (100%)																												

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² ·°F	Alpha	Glass				External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
						Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² ·°F								
N	364 ft ²	0	0 Wyoming School	0.0612	0.90												28 0.53
Floor - 1																	

Room Description: 1005 - STUDENT DINING

Zone Description: 1-03

System Description: AHU-1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 3,556 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: Cafeteria # of People: 324 People People Sensible: 275 Btu/h People Latent : 275 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 168.0 W Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <th style="text-align: center;">Cooling</th> <th style="text-align: center;">Heating</th> </tr> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 2,293.00 cfm</td> <td>2,293.00 cfm</td> </tr> <tr> <td>Vent Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 100.00 % Clg Airflow</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: VAV Min 100H/15C</td> <td></td> </tr> <tr> <td>Supply: 6,480.00 cfm</td> <td>6,480.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </table>	Cooling	Heating	Vent Type: None	None	Vent Value: 2,293.00 cfm	2,293.00 cfm	Vent Schedule: Available (100%)		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 100.00 % Clg Airflow	Max: 100.00 % Clg Airflow	Vav Sched: VAV Min 100H/15C		Supply: 6,480.00 cfm	6,480.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
Cooling	Heating																											
Vent Type: None	None																											
Vent Value: 2,293.00 cfm	2,293.00 cfm																											
Vent Schedule: Available (100%)																												
Infil Type: HEAPY	HEAPY																											
Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall																											
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Supply: 6,480.00 cfm	6,480.00 To be calculated																											
Aux Supply: To be calculated	To be calculated																											
Room Exhaust:																												
Rm Exh Sched: Available (100%)																												

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² ·°F	Alpha	Glass				External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
						Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² ·°F								
W	507 ft ²	270	0 Wyoming School	0.0612	0.90												
Opening - 1			Window			Wyoming Windows	214	0.43	0.31	Overhang - None	None	0.00					
Misc Load 1	155.000 W		Misc - Elementary School			Electricity							100	100	0	60.00	
Floor - 1																	

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 1030 - CHOIR ROOM

Zone Description: 1-09

System Description: AHU-1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 1,027 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 38 People People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 224.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 550.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 100.00 % Clg Airflow Vav Sched: VAV Min 50H/15C Supply: 1,050.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 550.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,050.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
Roof - 1	1,027 ft ²	0	90	Wyoming New Roof	0.0403	0.90									
S	348 ft ²	180	0	Wyoming School	0.0612	0.90									
Opening - 1				Door			Standard Door	67	0.00	0.20	Overhang - None	None	0.00		
W	91 ft ²	270	0	Wyoming School	0.0612	0.90									
Misc Load 1	585.000 W			Misc - Elementary School			Electricity						100	100	0 60.00
Floor - 1															34 0.53

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 1028 - ORCHESTRA ROOM

Zone Description: 1-10

System Description: AHU-1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 1,086 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 38 People People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 192.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 549.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 100.00 % Clg Airflow Vav Sched: VAV Min 90H/15C Supply: 1,050.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 549.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,050.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
Roof - 1	1,086 ft ²	0	90	Wyoming New Roof	0.0403	0.90									
S	364 ft ²	180	0	Wyoming School	0.0612	0.90									
Opening - 1				Door			Standard Door	67	0.00	0.20	Overhang - None	None	0.00		
Misc Load 1	585.000 W			Misc - Elementary School			Electricity						100	100	0 60.00
Floor - 1															28 0.53

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 1029 - ORCHESTRA ROOM

Zone Description: 1-11

System Description: AHU-1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 1,061 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 38 People People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 12,096.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 549.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 100.00 % Clg Airflow Vav Sched: VAV Min 90H/15C Supply: 1,050.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 549.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,050.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
Roof - 1	1,061 ft ²	0	90	Wyoming New Roof	0.0403	0.90									
S	364 ft ²	180	0	Wyoming School	0.0612	0.90									
Opening - 1				Door			Standard Door	67	0.00	0.20	Overhang - None	None	0.00		
Misc Load 1	585.000 W			Misc - Elementary School			Electricity						100	100	0 60.00
Floor - 1															28 0.53

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 1027 - BAND ROOM

Zone Description: 1-12

System Description: AHU-1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 1,055 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 38 People People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 56.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 577.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 100.00 % Clg Airflow Vav Sched: VAV Min 90H/15C Supply: 1,200.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 577.00 cfm 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,200.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
Roof - 1	1,055 ft ²	0	90	Wyoming New Roof	0.0403	0.90									
S	354 ft ²	180	0	Wyoming School	0.0612	0.90									
Opening - 1				Door			Standard Door	67	0.00	0.20	Overhang - None	None	0.00		
Misc Load 1	585.000 W			Misc - Elementary School			Electricity						100	100	0 60.00
Floor - 1															27 0.53

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 1019 - TLT

Zone Description: 1-14

System Description: AHU-1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 123 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 78.0 °F / 83.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1,008.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 0.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 100.00 % Clg Airflow Vav Sched: VAV Min 90H/15C Supply: 100.00 cfm Aux Supply: To be calculated Room Exhaust: 210.00 cfm Rm Exh Sched: Wyoming General Heating None 0.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 100.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² ·°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass		External Shading	Internal Shading	Adj	Pct	Pct	Pct	Rad
									Temp/ Grnd Refl	Sen/ Cool Tmp			Rm/ Heat Tm	Ret/ Perm Len	Frc/ Loss Coef		

Room Description: 1021 - LOBBY

Zone Description: 1-15

System Description: AHU-1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 1,379 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 504.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 107.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 100.00 % Clg Airflow Vav Sched: VAV Min 50H/15C Supply: 490.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%) Heating None 107.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 490.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² ·°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass		External Shading	Internal Shading	Adj	Pct	Pct	Pct	Rad
									Temp/ Grnd Refl	Sen/ Cool Tm			Rm/ Heat Tm	Ret/ Perm Len	Frc/ Loss Coef		

N	78 ft ²	0	0 Wyoming School	0.0612	0.90												
W	208 ft ²	270	0 Wyoming School	0.0612	0.90												

Floor - 1

22 0.53

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 2002 - CORRIDOR

Zone Description: 1-16

System Description: AHU-1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 827 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 112.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 64.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 100.00 % Clg Airflow Vav Sched: VAV Min 50H/15C Supply: 250.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 64.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 250.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F						External Shading
Roof - 1	827 ft ²	0	90	Wyoming New Roof	0.0403	0.90										
N	429 ft ²	0	0	Wyoming School	0.0612	0.90										
Opening - 1				Window			Wyoming Windows	75	0.43	0.31	Overhang - None	None				0.00
Partition - 1	200 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 2015 - CLASSROOM
Partition - 2	200 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 2014 - SCIENCE CL
Partition - 3	200 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 2012 - PREP ROOM
Partition - 4	200 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 2011 - SCIENCE CL

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 2016 - CLASSROOM

Zone Description: 1-17

System Description: AHU-1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 984 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 29 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 112.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 543.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 100.00 % Clg Airflow Vav Sched: VAV Min 50H/15C Supply: 1,890.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%) Heating None 543.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,890.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F						External Shading
Roof - 1	984 ft ²	0	90	Wyoming New Roof	0.0403	0.90										
W	527 ft ²	270	0	Wyoming School	0.0612	0.90										
Opening - 1				Window			Wyoming	207	0.43	0.31	Overhang - None	None	0.00			
S	338 ft ²	180	0	Wyoming School	0.0612	0.90										
Opening - 1				Window			Wyoming	138	0.43	0.31	Overhang - None	None	0.00			
Misc Load 1	800.000 W			Misc - Elementary School			Electricity							100	100	0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 2015 - CLASSROOM

Zone Description: 1-18

System Description: AHU-1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 984 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 29 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 112.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 543.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 100.00 % Clg Airflow Vav Sched: VAV Min 50H/15C Supply: 1,400.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 543.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,400.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F						External Shading
Roof - 1	984 ft ²	0	90	Wyoming New Roof	0.0403	0.90										
S	338 ft ²	180	0	Wyoming School	0.0612	0.90										
Opening - 1				Window			Wyoming	138	0.43	0.31	Overhang - None	None	0.00			
Misc Load 1	800.000 W			Misc - Elementary School			Electricity						100	100	0	60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 2014 - SCIENCE CLASSROOM

Zone Description: 1-19

System Description: AHU-1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 1,332 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: Classroom # of People: 31 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 168.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 597.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 100.00 % Clg Airflow Vav Sched: VAV Min 50H/15C Supply: 2,100.00 cfm Aux Supply: To be calculated Room Exhaust: 1,330.00 cfm Rm Exh Sched: Wyoming General Heating None 597.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 2,100.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F						External Shading
Roof - 1	1,332 ft ²	0	90	Wyoming New Roof	0.0403	0.90										
S window	468 ft ²	180	0	Wyoming School Window	0.0612	0.90	Wyoming Windows	228	0.43	0.31	Overhang - None	None	0.00			
Misc Load 1	800.000 W			Misc - Elementary School			Electricity						100	100	0	60.00

Room Description: 2012 - PREP ROOM

Zone Description: 1-20

System Description: AHU-1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 301 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: General Office Space # of People: 143 sq ft/person People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 56.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 0.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 100.00 % Clg Airflow Vav Sched: VAV Min 70H/15C Supply: 300.00 cfm Aux Supply: To be calculated Room Exhaust: 300.00 cfm Rm Exh Sched: Wyoming General Heating None 0.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 300.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F						External Shading
Roof - 1	301 ft ²	0	90	Wyoming New Roof	0.0403	0.90										
Misc Load 1	1,550.000 Btu/h			Misc - Elementary School			Electricity						100	100	0	60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 2013 - STORAGE

Zone Description: 1-20

System Description: AHU-1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 123 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 56.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 0.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 100.00 % Clg Airflow Vav Sched: VAV Min 70H/15C Supply: 125.00 cfm Aux Supply: To be calculated Room Exhaust: 125.00 cfm Rm Exh Sched: Wyoming General Heating None 0.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 125.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² ·°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
						Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² ·°F					
Roof - 1	123 ft ²	0	90 Wyoming New Roof	0.0403	0.90		0							
S	156 ft ²	180	0 Wyoming School	0.0612	0.90				Overhang - None	None				

Room Description: 2011 - SCIENCE CLASSROOM

Zone Description: 1-21

System Description: AHU-1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 1,332 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: Classroom # of People: 31 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 224.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 597.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 100.00 % Clg Airflow Vav Sched: VAV Min 50H/15C Supply: 2,100.00 cfm Aux Supply: To be calculated Room Exhaust: 1,330.00 cfm Rm Exh Sched: Wyoming General Heating None 597.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 2,100.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² ·°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
						Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² ·°F						External Shading
Roof - 1	1,332 ft ²	0	90 Wyoming New Roof	0.0403	0.90		0								
S	468 ft ²	180	0 Wyoming School	0.0612	0.90										
Opening - 1			Window			Wyoming Windows	228	0.43	0.31	Overhang - None	None	0.00			
Misc Load 1	800.000 W		Misc - Elementary School			Electricity							100	100	0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 2003 - CORRIDOR

Zone Description: 1-22

System Description: AHU-1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 1,108 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1,344.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 86.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 100.00 % Clg Airflow Vav Sched: VAV Min 50H/15C Supply: 300.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 86.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 300.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F						External Shading
Roof - 1	1,108 ft ²	0	90	Wyoming New Roof	0.0403	0.90										
W	104 ft ²	270	0	Wyoming School	0.0612	0.90				Overhang - None	None					
E	104 ft ²	90	0	Wyoming School	0.0612	0.90										

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 2004 - CORRIDOR

Zone Description: 1-22

System Description: AHU-1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 475 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 84.0 W Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <th style="text-align: center;">Cooling</th> <th style="text-align: center;">Heating</th> </tr> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 37.00 cfm</td> <td>37.00 cfm</td> </tr> <tr> <td>Vent Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 100.00 % Clg Airflow</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: VAV Min 50H/15C</td> <td></td> </tr> <tr> <td>Supply: 150.00 cfm</td> <td>150.00 % Htg Airflow</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </table>	Cooling	Heating	Vent Type: None	None	Vent Value: 37.00 cfm	37.00 cfm	Vent Schedule: Available (100%)		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 100.00 % Clg Airflow	Max: 100.00 % Clg Airflow	Vav Sched: VAV Min 50H/15C		Supply: 150.00 cfm	150.00 % Htg Airflow	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
Cooling	Heating																											
Vent Type: None	None																											
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Infil Type: HEAPY	HEAPY																											
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Vav Airflow: Min: 100.00 % Clg Airflow	Max: 100.00 % Clg Airflow																											
Vav Sched: VAV Min 50H/15C																												
Supply: 150.00 cfm	150.00 % Htg Airflow																											
Aux Supply: To be calculated	To be calculated																											
Room Exhaust:																												
Rm Exh Sched: Available (100%)																												

Description	Area/ Amount	Dir	Const Type / Tilt	Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F						External Shading
Roof - 1	475 ft ²	0	90 Wyoming New Roof		0.0403	0.90										
N	429 ft ²	0	0 Wyoming School		0.0612	0.90										
Partition - 1	200 ft ²		0.75* Gyp Frame		1.0000											
Partition - 2	200 ft ²		0.75* Gyp Frame		1.0000											

Adjacent Room: 2003 - CORRIDOR
Adjacent Room: 2005 - LOBBY

Room Description: 2006 - GIRLS TLT

Zone Description: 1-23

System Description: AHU-1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 280 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 78.0 °F / 83.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 168.0 W Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <th style="text-align: center;">Cooling</th> <th style="text-align: center;">Heating</th> </tr> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 0.00 cfm</td> <td>0.00 cfm</td> </tr> <tr> <td>Vent Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 100.00 % Clg Airflow</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: VAV Min 50H/15C</td> <td></td> </tr> <tr> <td>Supply: 150.00 cfm</td> <td>150.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust: 420.00 cfm</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Wyoming General</td> <td></td> </tr> </table>	Cooling	Heating	Vent Type: None	None	Vent Value: 0.00 cfm	0.00 cfm	Vent Schedule: Available (100%)		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 100.00 % Clg Airflow	Max: 100.00 % Clg Airflow	Vav Sched: VAV Min 50H/15C		Supply: 150.00 cfm	150.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust: 420.00 cfm		Rm Exh Sched: Wyoming General	
Cooling	Heating																											
Vent Type: None	None																											
Vent Value: 0.00 cfm	0.00 cfm																											
Vent Schedule: Available (100%)																												
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Supply: 150.00 cfm	150.00 To be calculated																											
Aux Supply: To be calculated	To be calculated																											
Room Exhaust: 420.00 cfm																												
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Description	Area/ Amount	Dir	Const Type / Tilt	Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F						External Shading
Roof - 1	280 ft ²	0	90 Wyoming New Roof		0.0403	0.90										
S	156 ft ²	180	0 Wyoming School		0.0612	0.90										

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 2005 - LOBBY

Zone Description: 1-24

System Description: AHU-1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 1,131 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 56.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 88.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 100.00 % Clg Airflow Vav Sched: VAV Min 50H/15C Supply: 500.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 88.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 500.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² ·°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
						Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² ·°F					
Roof - 1	1,131 ft ²	0	90 Wyoming New Roof	0.0403	0.90		0			Overhang - None				
E	234 ft ²	90	0 Wyoming School	0.0612	0.90									
W	208 ft ²	270	0 Wyoming School	0.0612	0.90									

Room Description: 2021 - STORAGE

Zone Description: 1-24

System Description: AHU-1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 230 ft ² Flr-Flr Height: 10.0 ft Plenum Height: 2.0 ft Height Above Flr: Slab Cnstr Type: 4* LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: Cooling Only (Design) Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.6 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 0.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 100.00 % Clg Airflow Vav Sched: Available (100%) Supply: To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 0.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow To be calculated To be calculated

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² ·°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
						Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² ·°F					
W	100 ft ²	270	0 Frame Wall, No Ins	0.4376	0.90									

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 2010 - MECHANICAL

Zone Description: 1-25

System Description: AHU-1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 672 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 85.0 °F / 88.0 °F Design Htg DB / Drift Point: 55.0 °F / 55.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Room Floor Multiplier: 1 Humidistat Location: None Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 112.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 0.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 100.00 % Clg Airflow Vav Sched: VAV Min 50H/15C Supply: 250.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating Vent Type: None Vent Value: 0.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 250.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F						External Shading
Roof - 1	672 ft ²	0	90	Wyoming New Roof	0.0403	0.90										
S	221 ft ²	180	0	Wyoming School	0.0612	0.90										
E	114 ft ²	90	0	Wyoming School	0.0612	0.90										
Misc Load 1	750.000 W			Available 100%			None						100	100	0	60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 2022 - CLASSROOM

Zone Description: 1-26

System Description: AHU-1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 335 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Conference Room # of People: 4 People People Sensible: 245 Btu/h People Latent : 155 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1,270.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 52.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 100.00 % Clg Airflow Vav Sched: VAV Min 50H/15C Supply: 420.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 52.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 420.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
E	208 ft ²	90	0	Wyoming School	0.0612	0.90									
Opening - 1				Window			Wyoming	71	0.43	0.31	Overhang - None	None	0.00		
Misc Load 1	585.000 W			Misc - Elementary School			Cooling Load						100	100	0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 2020 - CLASSROOM

Zone Description: 1-27

System Description: AHU-1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 585 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 56.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 325.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 100.00 % Clg Airflow Vav Sched: VAV Min 50H/15C Supply: 1,200.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 325.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,200.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading					
N	39 ft ²	0	0	Wyoming School	0.0612	0.90										
W	346 ft ²	270	0	Wyoming School	0.0612	0.90										
Opening - 1				Window			Wyoming Windows	143	0.43	0.31	Overhang - None	None	0.00			
S	39 ft ²	180	0	Wyoming School	0.0612	0.90										
Misc Load 1	800.000 W			Misc - Elementary School			Electricity							100	100	0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 1025 - GYMNASIUM

Zone Description: No Zone

System Description: AHU-2

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 6,300 ft ² Fir-Fir Height: 30.0 ft Plenum Height: 0.0 ft Height Above Fir: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Gym # of People: 35 sq ft/person People Sensible: 710 Btu/h People Latent : 1,090 Btu/h People Schedule: People - Elementary Gym Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elementary Gymnasium Lighting Amount: 1,350.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 2,363.00 cfm Vent Schedule: Wyoming Gym OA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 5,000.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 2,363.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 5,000.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading					
W	600 ft ²	270	0	Wyoming School	0.0612	0.90										
S	1,860 ft ²	180	0	Wyoming School	0.0612	0.90										
Floor - 1																82 0.53

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 1025A - GYM SEATING AREA

Zone Description: No Zone

System Description: AHU-2

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 2,500 ft ² Flr-Flr Height: 30.0 ft Plenum Height: 0.0 ft Height Above Flr: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Auditorium # of People: 7 sq ft/person People Sensible: 225 Btu/h People Latent : 105 Btu/h People Schedule: People - Elementary Gym Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elementary Gymnasium Lighting Amount: 28.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 3,667.00 cfm Vent Schedule: Wyoming Gym OA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 5,000.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 3,667.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 5,000.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F						External Shading
Roof - 1	2,500 ft ²	0	90	Wyoming New Roof	0.0403	0.90										
N	750 ft ²	0	0	Wyoming School	0.0612	0.90										
E	3,000 ft ²	90	0	Wyoming School	0.0612	0.90										
S	750 ft ²	180	0	Wyoming School	0.0612	0.90										
Misc Load 1	500.000 W			Misc - Elementary School			Electricity					100	100		0	60.00
Floor - 1															150	0.53

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 1043 - DRY STORAGE

Zone Description: No Zone

System Description: AHU-4

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 215 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 112.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 0.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 100.00 % Clg Airflow Vav Sched: Available (100%) Supply: 200.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 0.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 200.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h·ft ² ·°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h·ft ² ·°F						External Shading
Roof - 1	215 ft ²	0	90	Wyoming New Roof	0.0403	0.90										
S	221 ft ²	180	0	Wyoming School	0.0612	0.90										
Floor - 1																

17 0.53

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 161 - OFFICE

Zone Description: FC1-01

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 331 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: General Office Space # of People: 143 sq ft/person People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 184.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 40.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 490.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 40.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 490.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
W	247 ft ²	270	0	Wyoming School	0.0612	0.90									
Opening - 1				Window			Wyoming	36	0.43	0.31	Overhang - None	None	0.00		
Misc Load 1	300.000 W			Misc - Elementary School			Electricity						100	100	0 60.00
Partition - 1	150 ft ²			0.75* Gyp Frame	0.3880								Adjacent Room: 159 - OFFICE		
Partition - 2	150 ft ²			0.75* Gyp Frame	0.3880								Adjacent Room: 157 - CORRIDOR		
Floor - 1															19 0.53

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 159 - OFFICE

Zone Description: FC1-02

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 193 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: General Office Space # of People: 143 sq ft/person People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 728.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 22.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 660.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 22.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 660.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
W	153 ft ²	270	0	Wyoming School	0.0612	0.90									
Opening - 1				Window			Wyoming	71	0.43	0.31	Overhang - None	None	0.00		
Misc Load 1	300.000 W			Misc - Elementary School			Electricity						100	100	0 60.00
Floor - 1															12 0.53

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 155 - OFFICE

Zone Description: FC1-03

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 124 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: General Office Space # of People: 143 sq ft/person People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 168.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 17.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 650.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 17.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 650.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading					
W	98 ft ²	270	0	Wyoming School	0.0612	0.90										
Opening - 1				Window			Wyoming Windows	71	0.43	0.31	Overhang - None	None	0.00			
Misc Load 1	300.000 W			Misc - Elementary School			Electricity							100	100	0 60.00
Partition - 1	150 ft ²			0.75* Gyp Frame	0.3880									Adjacent Room: 154 - RECEPTION		
Partition - 2	150 ft ²			0.75* Gyp Frame	0.3880									Adjacent Room: 158 - WORKROOM		
Floor - 1																8 0.53

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 160 - CORRIDOR

Zone Description: FC1-03

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 400 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1,092.0 W Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <th style="text-align: center;">Cooling</th> <th style="text-align: center;">Heating</th> </tr> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 32.00 cfm</td> <td>32.00 cfm</td> </tr> <tr> <td>Vent Schedule: Wyoming FC MUA</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 33.00 % Clg Airflow</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 150.00 cfm</td> <td>175.00 % Htg Airflow</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </table>	Cooling	Heating	Vent Type: None	None	Vent Value: 32.00 cfm	32.00 cfm	Vent Schedule: Wyoming FC MUA		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 33.00 % Clg Airflow	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 150.00 cfm	175.00 % Htg Airflow	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
Cooling	Heating																											
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Aux Supply: To be calculated	To be calculated																											
Room Exhaust:																												
Rm Exh Sched: Available (100%)																												

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
						Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
Roof - 1	400 ft ²	0	90 Wyoming New Roof	0.0403	0.90		0							
Partition - 1	100 ft ²		0.75* Gyp Frame	1.0000										Adjacent Room: 154 - RECEPTION
Partition - 2	100 ft ²		0.75* Gyp Frame	0.3880										Adjacent Room: 155 - OFFICE
Partition - 3	200 ft ²		0.75* Gyp Frame	0.3880										Adjacent Room: 158 - WORKROOM

Room Description: 142 - STORAGE

Zone Description: FC1-04

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 50 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8* LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 448.0 W Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <th style="text-align: center;">Cooling</th> <th style="text-align: center;">Heating</th> </tr> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 0.00 cfm</td> <td>0.00 cfm</td> </tr> <tr> <td>Vent Schedule: Wyoming FC MUA</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 33.00 % Clg Airflow</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 10.00 cfm</td> <td>10.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </table>	Cooling	Heating	Vent Type: None	None	Vent Value: 0.00 cfm	0.00 cfm	Vent Schedule: Wyoming FC MUA		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 33.00 % Clg Airflow	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 10.00 cfm	10.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
Cooling	Heating																											
Vent Type: None	None																											
Vent Value: 0.00 cfm	0.00 cfm																											
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Supply: 10.00 cfm	10.00 To be calculated																											
Aux Supply: To be calculated	To be calculated																											
Room Exhaust:																												
Rm Exh Sched: Available (100%)																												

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
						Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 150 - OFFICE

Zone Description: FC1-05

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 137 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: General Office Space # of People: 1 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 168.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 18.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 140.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 18.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 140.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² -°F	Alpha	Type / Energy Type	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef		
							Shade Coef	U Value Btu/h-ft ² -°F	External Shading	Internal Shading							
Misc Load 1	100.000 W		Misc - Elementary School			Electricity								100	100	0	60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 152 - OFFICE

Zone Description: FC1-06

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 115 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: General Office Space # of People: 1 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 312.0 W Ballast Factor: 1.0	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Cooling</th> <th style="text-align: center;">Heating</th> </tr> </thead> <tbody> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 16.00 cfm</td> <td>16.00 cfm</td> </tr> <tr> <td>Vent Schedule: Wyoming FC MUA</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 33.00 % Clg Airflow</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 180.00 cfm</td> <td>180.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </tbody> </table>	Cooling	Heating	Vent Type: None	None	Vent Value: 16.00 cfm	16.00 cfm	Vent Schedule: Wyoming FC MUA		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 33.00 % Clg Airflow	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 180.00 cfm	180.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
Cooling	Heating																											
Vent Type: None	None																											
Vent Value: 16.00 cfm	16.00 cfm																											
Vent Schedule: Wyoming FC MUA																												
Infil Type: HEAPY	HEAPY																											
Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall																											
Infil Schedule: Available (100%)																												
Vav Airflow: Min: 33.00 % Clg Airflow	Max: 100.00 % Clg Airflow																											
Vav Sched: Available (100%)																												
Supply: 180.00 cfm	180.00 To be calculated																											
Aux Supply: To be calculated	To be calculated																											
Room Exhaust:																												
Rm Exh Sched: Available (100%)																												

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² -°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass		External Shading	Internal Shading	Adj	Pct	Pct	Pct	Rad	
									Temp/ Grnd Refl	Sen/ Cool Tmp			Rm/ Heat Tmp	Ret/ Perm Len	Frc/ Loss Coef			
E	150 ft ²	90	0 Wyoming School	0.0612	0.90													
Misc Load 1	300.000 W		Misc - Elementary School			Electricity								100	100	0	60.00	
Floor - 1																	12	0.53

Room Description: 165 - VIDEO LAB

Zone Description: FC1-07

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 101 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: Classroom # of People: 1 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 56.0 W Ballast Factor: 1.0	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Cooling</th> <th style="text-align: center;">Heating</th> </tr> </thead> <tbody> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 15.00 cfm</td> <td>15.00 cfm</td> </tr> <tr> <td>Vent Schedule: Wyoming FC MUA</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 33.00 % Clg Airflow</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 365.00 cfm</td> <td>365.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </tbody> </table>	Cooling	Heating	Vent Type: None	None	Vent Value: 15.00 cfm	15.00 cfm	Vent Schedule: Wyoming FC MUA		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 33.00 % Clg Airflow	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 365.00 cfm	365.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
Cooling	Heating																											
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Supply: 365.00 cfm	365.00 To be calculated																											
Aux Supply: To be calculated	To be calculated																											
Room Exhaust:																												
Rm Exh Sched: Available (100%)																												

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² -°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass		External Shading	Internal Shading	Adj	Pct	Pct	Pct	Rad	
									Temp/ Grnd Refl	Sen/ Cool Tmp			Rm/ Heat Tmp	Ret/ Perm Len	Frc/ Loss Coef			
Misc Load 1	1,160.000 W		Misc - Elementary School			Electricity								100	100	0	60.00	

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 166 - OFFICE

Zone Description: FC1-07

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 94 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: General Office Space # of People: 1 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 336.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 14.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 200.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 14.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 200.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F						External Shading
N window	104 ft ²	0	0	Wyoming School	0.0612	0.90	Wyoming Windows	33	0.43	0.31	Overhang - None	None	0.00			
Misc Load 1	300.000 W			Misc - Elementary School			Electricity						100	100	0	60.00
Partition - 1	100 ft ²			0.75* Gyp Frame	0.3880								Adjacent Room: 165 - VIDEO LAB			
Floor - 1															8	0.53

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 104 - BOYS TOILET

Zone Description: FC1-08

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 250 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 78.0 °F / 83.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 504.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 0.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 295.00 cfm Aux Supply: To be calculated Room Exhaust: 560.00 cfm Rm Exh Sched: Wyoming General Heating None 0.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 295.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h·ft ² ·°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h·ft ² ·°F					
E	59 ft ²	90	0	Wyoming School	0.0612	0.90									
N	120 ft ²	0	0	Wyoming School	0.0612	0.90									
Opening - 1				Window			Wyoming Windows	36	0.43	0.31	Overhang - None	None	0.00		
Partition - 1	200 ft ²			0.75* Gyp Frame	0.3880										Adjacent Room: 101 - FOYER
Partition - 2	100 ft ²			0.75* Gyp Frame	0.3880										Adjacent Room: 105 - STORAGE
Partition - 3	100 ft ²			0.75* Gyp Frame	0.3880										Adjacent Room: 106 - IT CLOSET
Floor - 1															14 0.53

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 105 - STORAGE

Zone Description: FC1-08

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 80 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 112.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 0.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 185.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 0.00 cfm 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 185.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
N	98 ft ²	0	0	Wyoming School	0.0612	0.90									
Opening - 1				Window			Wyoming Windows	31	0.43	0.31	Overhang - None	None	0.00		
Partition - 1	80 ft ²			0.75* Gyp Frame	0.3880										Adjacent Room: 106 - IT CLOSET
Partition - 2	100 ft ²			0.75* Gyp Frame	0.3880										Adjacent Room: 107 - ART CLASSR
Floor - 1															8 0.53

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 167 - GIRLS TOILET

Zone Description: FC1-08

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 255 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 78.0 °F / 83.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 420.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 0.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 300.00 cfm Aux Supply: To be calculated Room Exhaust: 420.00 cfm Rm Exh Sched: Wyoming General Heating None 0.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 300.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
N	120 ft ²	0	0	Wyoming School	0.0612	0.90									
Opening - 1				Window			Wyoming Windows	33	0.43	0.31	Overhang - None	None	0.00		
W	65 ft ²	270	0	Wyoming School	0.0612	0.90									
Partition - 1	200 ft ²			0.75* Gyp Frame	0.3880										Adjacent Room: 101 - FOYER
Partition - 2	200 ft ²			0.75* Gyp Frame	0.3880										Adjacent Room: 165 - VIDEO LAB
Floor - 1															14 0.53

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 108 - STORAGE

Zone Description: FC1-10

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 100 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 616.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 0.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 450.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 0.00 cfm 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 450.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h·ft ² ·°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h·ft ² ·°F					
E	104 ft ²	90	0	Wyoming School	0.0612	0.90									
N	150 ft ²	0	0	Wyoming School	0.0612	0.90									
Opening - 1				Window			Wyoming Windows	71	0.43	0.31	Overhang - None	None	0.00		
Partition - 1	120 ft ²			0.75* Gyp Frame	0.3880										Adjacent Room: 109 - DARK ROOM
Partition - 2	90 ft ²			0.75* Gyp Frame	0.3880										Adjacent Room: 107 - ART CLASSRC
Floor - 1															20 0.53

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 121 - CORRIDOR

Zone Description: FC1-11

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 900 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 112.0 W Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"><u>Cooling</u></td> <td style="width: 50%; border: none;"><u>Heating</u></td> </tr> <tr> <td style="border: none;">Vent Type: None</td> <td style="border: none;">None</td> </tr> <tr> <td style="border: none;">Vent Value: 73.00 cfm</td> <td style="border: none;">73.00 cfm</td> </tr> <tr> <td style="border: none;">Vent Schedule: Wyoming FC MUA</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Infil Type: HEAPY</td> <td style="border: none;">HEAPY</td> </tr> <tr> <td style="border: none;">Infil Value: 0.00 air changes/hr</td> <td style="border: none;">0.08 cfm/sq ft of wall</td> </tr> <tr> <td style="border: none;">Infil Schedule: Available (100%)</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Vav Airflow: Min: 33.00 % Clg Airflow</td> <td style="border: none;">Max: 100.00 % Clg Airflow</td> </tr> <tr> <td style="border: none;">Vav Sched: Available (100%)</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Supply: 355.00 cfm</td> <td style="border: none;">190.00 To be calculated</td> </tr> <tr> <td style="border: none;">Aux Supply: To be calculated</td> <td style="border: none;">To be calculated</td> </tr> <tr> <td style="border: none;">Room Exhaust:</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Rm Exh Sched: Available (100%)</td> <td style="border: none;"></td> </tr> </table>	<u>Cooling</u>	<u>Heating</u>	Vent Type: None	None	Vent Value: 73.00 cfm	73.00 cfm	Vent Schedule: Wyoming FC MUA		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 33.00 % Clg Airflow	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 355.00 cfm	190.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
<u>Cooling</u>	<u>Heating</u>																											
Vent Type: None	None																											
Vent Value: 73.00 cfm	73.00 cfm																											
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Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² ·°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass		External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
									U Value Btu/h-ft ² ·°F	Internal Shading								
Partition - 1	100 ft ²		0.75* Gyp Frame	1.0000														Adjacent Room: 139b - CORRIDOR
Partition - 2	100 ft ²		0.75* Gyp Frame	0.3880														Adjacent Room: 111 - ART CLASSRC
Partition - 3	100 ft ²		0.75* Gyp Frame	0.3880														Adjacent Room: 113 - ART CLASSRC

Room Description: 114 - TOILET

Zone Description: FC1-12

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 128 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 78.0 °F / 83.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 672.0 W Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"><u>Cooling</u></td> <td style="width: 50%; border: none;"><u>Heating</u></td> </tr> <tr> <td style="border: none;">Vent Type: None</td> <td style="border: none;">None</td> </tr> <tr> <td style="border: none;">Vent Value: 18.00 cfm</td> <td style="border: none;">18.00 cfm</td> </tr> <tr> <td style="border: none;">Vent Schedule: Wyoming FC MUA</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Infil Type: HEAPY</td> <td style="border: none;">HEAPY</td> </tr> <tr> <td style="border: none;">Infil Value: 0.00 air changes/hr</td> <td style="border: none;">0.08 cfm/sq ft of wall</td> </tr> <tr> <td style="border: none;">Infil Schedule: Available (100%)</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Vav Airflow: Min: 33.00 % Clg Airflow</td> <td style="border: none;">Max: 100.00 % Clg Airflow</td> </tr> <tr> <td style="border: none;">Vav Sched: Available (100%)</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Supply: 275.00 cfm</td> <td style="border: none;">275.00 To be calculated</td> </tr> <tr> <td style="border: none;">Aux Supply: To be calculated</td> <td style="border: none;">To be calculated</td> </tr> <tr> <td style="border: none;">Room Exhaust: 125.00 cfm</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Rm Exh Sched: Wyoming General</td> <td style="border: none;"></td> </tr> </table>	<u>Cooling</u>	<u>Heating</u>	Vent Type: None	None	Vent Value: 18.00 cfm	18.00 cfm	Vent Schedule: Wyoming FC MUA		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 33.00 % Clg Airflow	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 275.00 cfm	275.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust: 125.00 cfm		Rm Exh Sched: Wyoming General	
<u>Cooling</u>	<u>Heating</u>																											
Vent Type: None	None																											
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Room Exhaust: 125.00 cfm																												
Rm Exh Sched: Wyoming General																												

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² ·°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass		External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
									U Value Btu/h-ft ² ·°F	Internal Shading							

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 115 - KILN

Zone Description: FC1-12

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 87 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: General Office Space # of People: 143 sq ft/person People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 784.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 0.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 165.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 0.00 cfm 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 165.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading					
E	137 ft ²	90	0	Wyoming School	0.0612	0.90										
Misc Load 1	300.000 W			Misc - Elementary School			Electricity							100	100	0 60.00
Partition - 1	100 ft ²			0.75* Gyp Frame	0.3880									Adjacent Room: 113 - ART CLASSRC		
Partition - 2	100 ft ²			0.75* Gyp Frame	0.3880									Adjacent Room: 117 - MULTI-HANDI		
Floor - 1														11	0.53	

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 141a - PROFESSIONAL

Zone Description: FC1-17

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 605 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 224.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 395.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 910.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 395.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 910.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h·ft ² ·°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass		External Shading	Internal Shading	Adj Temp/ Grnd Ref	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
									U Value Btu/h·ft ² ·°F	U Value Btu/h·ft ² ·°F								
Misc Load 1	800.000 W		Misc - Elementary School			Electricity									100	100	0	60.00

Room Description: 237 - CORRIDOR

Zone Description: FC2-01

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 170 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 84.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 14.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 100.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 14.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 40.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h·ft ² ·°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass		External Shading	Internal Shading	Adj Temp/ Grnd Ref	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
									U Value Btu/h·ft ² ·°F	U Value Btu/h·ft ² ·°F							
Partition - 1	400 ft ²		0.75* Gyp Frame	0.3880													Adjacent Room: 236 - EXTENDED LE
Partition - 2	100 ft ²		0.75* Gyp Frame	0.3880													Adjacent Room: 242A - CORRIDOR

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 242B - CORRIDOR

Zone Description: FC2-02

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 475 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 728.0 W Ballast Factor: 1.0	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Cooling</th> <th style="text-align: center;">Heating</th> </tr> </thead> <tbody> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 38.00 cfm</td> <td>38.00 cfm</td> </tr> <tr> <td>Vent Schedule: Wyoming FC MUA</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 33.00 % Clg Airflow</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 115.00 cfm</td> <td>100.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </tbody> </table>	Cooling	Heating	Vent Type: None	None	Vent Value: 38.00 cfm	38.00 cfm	Vent Schedule: Wyoming FC MUA		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 33.00 % Clg Airflow	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 115.00 cfm	100.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
Cooling	Heating																											
Vent Type: None	None																											
Vent Value: 38.00 cfm	38.00 cfm																											
Vent Schedule: Wyoming FC MUA																												
Infil Type: HEAPY	HEAPY																											
Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall																											
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Vav Airflow: Min: 33.00 % Clg Airflow	Max: 100.00 % Clg Airflow																											
Vav Sched: Available (100%)																												
Supply: 115.00 cfm	100.00 To be calculated																											
Aux Supply: To be calculated	To be calculated																											
Room Exhaust:																												
Rm Exh Sched: Available (100%)																												

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
						Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
Partition - 1	200 ft ²		0.75* Gyp Frame	0.3880										Adjacent Room: 239 - CLASSROOM
Partition - 2	200 ft ²		0.75* Gyp Frame	0.3880										Adjacent Room: 240 - CLASSROOM
Partition - 3	200 ft ²		0.75* Gyp Frame	0.3880										Adjacent Room: 238 - CLASSROOM
Partition - 4	200 ft ²		0.75* Gyp Frame	0.3880										Adjacent Room: 243 - CLASSROOM

Room Description: 244 - SMALL GROUP ROOM

Zone Description: FC2-02

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 98 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: Conference Room # of People: 4 People People Sensible: 245 Btu/h People Latent : 155 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 168.0 W Ballast Factor: 1.0	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Cooling</th> <th style="text-align: center;">Heating</th> </tr> </thead> <tbody> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 15.00 cfm</td> <td>15.00 cfm</td> </tr> <tr> <td>Vent Schedule: Wyoming FC MUA</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 33.00 % Clg Airflow</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 150.00 cfm</td> <td>150.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </tbody> </table>	Cooling	Heating	Vent Type: None	None	Vent Value: 15.00 cfm	15.00 cfm	Vent Schedule: Wyoming FC MUA		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 33.00 % Clg Airflow	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 150.00 cfm	150.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
Cooling	Heating																											
Vent Type: None	None																											
Vent Value: 15.00 cfm	15.00 cfm																											
Vent Schedule: Wyoming FC MUA																												
Infil Type: HEAPY	HEAPY																											
Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall																											
Infil Schedule: Available (100%)																												
Vav Airflow: Min: 33.00 % Clg Airflow	Max: 100.00 % Clg Airflow																											
Vav Sched: Available (100%)																												
Supply: 150.00 cfm	150.00 To be calculated																											
Aux Supply: To be calculated	To be calculated																											
Room Exhaust:																												
Rm Exh Sched: Available (100%)																												

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
						Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
Misc Load 1	155.000 W		Misc - Elementary School											100 100 0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 236 - EXTENDED LEARNING AREA

Zone Description: FC2-03

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 838 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: General Office Space # of People: 143 sq ft/person People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1,016.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 102.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 1,150.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 102.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,150.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading						Internal Shading
Misc Load 1	1,600.000 W			Misc - Elementary School			Electricity							100	100	0	60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 248 - CORRIDOR

Zone Description: FC2-03

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 730 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 440.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 59.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 190.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 59.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 155.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading					
Partition - 1	200 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 247 - CLASSROOM
Partition - 2	200 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 246 - CLASSROOM
Partition - 3	200 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 236 - EXTENDED LE
Partition - 4	200 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 233 - CLASSROOM
Partition - 5	200 ft ²			0.75* Gyp Frame	1.0000											Adjacent Room: 201 - STAIR HALL
Partition - 6	200 ft ²			0.75* Gyp Frame	1.0000											Adjacent Room: 242A - CORRIDOR

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 250 - GIRLS TLT

Zone Description: FC2-05

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 208 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 78.0 °F / 83.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 56.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 0.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 240.00 cfm Aux Supply: To be calculated Room Exhaust: 420.00 cfm Rm Exh Sched: Wyoming General Heating None 0.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 240.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
N window	130 ft ²	0	0	Wyoming School Window	0.0612	0.90	Wyoming Windows	36	0.43	0.31	Overhang - None	None	0.00		
Partition - 1	100 ft ²			0.75* Gyp Frame	0.3880										Adjacent Room: 247 - CLASSROOM
Partition - 2	100 ft ²			0.75* Gyp Frame	0.3880										Adjacent Room: 248 - CORRIDOR

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 204 - WORKROOM

Zone Description: FC2-06

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 292 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: General Office Space # of People: 2 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 84.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 37.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 1,065.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 37.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,065.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
N	351 ft ²	0	0	Wyoming School	0.0612	0.90									
Opening - 1				Window			Wyoming	135	0.43	0.31	Overhang - None	None	0.00		
Misc Load 1	2,600.000 W			Misc - Elementary School			Electricity						100	100	0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 205 - STORAGE

Zone Description: FC2-06

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 94 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 368.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 0.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 305.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 0.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 150.00 % Htg Airflow To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading					
N	124 ft ²	0	0	Wyoming School	0.0612	0.90										
Opening - 1				Window			Wyoming Windows	45	0.43	0.31	Overhang - None	None	0.00			
E	52 ft ²	90	0	Wyoming School	0.0612	0.90										
Partition - 1	100 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 209 - CORRIDOR
Partition - 2	100 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 204 - WORKROOM

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 206 - BOYS TLT

Zone Description: FC2-07

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 194 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 78.0 °F / 83.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 168.0 W Ballast Factor: 1.0	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Cooling</th> <th style="text-align: center;">Heating</th> </tr> </thead> <tbody> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 0.00 cfm</td> <td>0.00 cfm</td> </tr> <tr> <td>Vent Schedule: Wyoming FC MUA</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 33.00 % Clg Airflow</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 235.00 cfm</td> <td>150.00 % Htg Airflow</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust: 560.00 cfm</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Wyoming General</td> <td></td> </tr> </tbody> </table>	Cooling	Heating	Vent Type: None	None	Vent Value: 0.00 cfm	0.00 cfm	Vent Schedule: Wyoming FC MUA		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 33.00 % Clg Airflow	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 235.00 cfm	150.00 % Htg Airflow	Aux Supply: To be calculated	To be calculated	Room Exhaust: 560.00 cfm		Rm Exh Sched: Wyoming General	
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Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² ·°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² ·°F	External Shading	Internal Shading	Adj	Pct	Pct	Pct	Rad	
												Temp/ Grnd Refl	Sen/ Cool Tmp	Rm/ Heat Tmp	Ret/ Perm Len	Frc/ Loss Coef	
N	130 ft ²	0	0 Wyoming School	0.0612	0.90												
Opening - 1			Window			Wyoming Windows	34	0.43	0.31	Overhang - None	None	0.00					
Partition - 1	100 ft ²		0.75* Gyp Frame	0.3880								Adjacent Room: 210 - CLASSROOM					
Partition - 2	100 ft ²		0.75* Gyp Frame	0.3880								Adjacent Room: 207 - STAFF TLT					

Room Description: 207 - STAFF TLT

Zone Description: FC2-07

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 36 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 78.0 °F / 83.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 168.0 W Ballast Factor: 1.0	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Cooling</th> <th style="text-align: center;">Heating</th> </tr> </thead> <tbody> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 0.00 cfm</td> <td>0.00 cfm</td> </tr> <tr> <td>Vent Schedule: Wyoming FC MUA</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 33.00 % Clg Airflow</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 10.00 cfm</td> <td>10.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust: 70.00 cfm</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Wyoming General</td> <td></td> </tr> </tbody> </table>	Cooling	Heating	Vent Type: None	None	Vent Value: 0.00 cfm	0.00 cfm	Vent Schedule: Wyoming FC MUA		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 33.00 % Clg Airflow	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 10.00 cfm	10.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust: 70.00 cfm		Rm Exh Sched: Wyoming General	
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Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² ·°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² ·°F	External Shading	Internal Shading	Adj	Pct	Pct	Pct	Rad
												Temp/ Grnd Refl	Sen/ Cool Tmp	Rm/ Heat Tmp	Ret/ Perm Len	Frc/ Loss Coef

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 226 - STORAGE

Zone Description: FC2-08

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 133 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 728.0 W Ballast Factor: 1.0	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Cooling</th> <th style="text-align: center;">Heating</th> </tr> </thead> <tbody> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 0.00 cfm</td> <td>0.00 cfm</td> </tr> <tr> <td>Vent Schedule: Wyoming FC MUA</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 33.00 % Clg Airflow</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 30.00 cfm</td> <td>30.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </tbody> </table>	Cooling	Heating	Vent Type: None	None	Vent Value: 0.00 cfm	0.00 cfm	Vent Schedule: Wyoming FC MUA		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 33.00 % Clg Airflow	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 30.00 cfm	30.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
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Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² ·°F	Alpha	Glass				External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
						Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² ·°F								
Partition - 1	200 ft ²		0.75* Gyp Frame	0.3880													Adjacent Room: 209 - CORRIDOR
Partition - 2	100 ft ²		0.75* Gyp Frame	0.3880													Adjacent Room: 229 - AUDITORIUM

Room Description: 227 - TICKETS

Zone Description: FC2-08

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 56 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: General Office Space # of People: 143 sq ft/person People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1,176.0 W Ballast Factor: 1.0	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Cooling</th> <th style="text-align: center;">Heating</th> </tr> </thead> <tbody> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 11.00 cfm</td> <td>11.00 cfm</td> </tr> <tr> <td>Vent Schedule: Wyoming FC MUA</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 33.00 % Clg Airflow</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 105.00 cfm</td> <td>105.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </tbody> </table>	Cooling	Heating	Vent Type: None	None	Vent Value: 11.00 cfm	11.00 cfm	Vent Schedule: Wyoming FC MUA		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 33.00 % Clg Airflow	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 105.00 cfm	105.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
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Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² ·°F	Alpha	Glass				External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
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Misc Load 1	300.000 W		Misc - Elementary School														100 100 0 60.00
Partition - 1	200 ft ²		0.75* Gyp Frame	0.3880													Adjacent Room: 248 - CORRIDOR
Partition - 2	100 ft ²		0.75* Gyp Frame	0.3880													Adjacent Room: 229 - AUDITORIUM

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 222 - SMALL GROUP ROOM

Zone Description: FC2-10

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 130 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: Conference Room # of People: 4 People People Sensible: 245 Btu/h People Latent : 155 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 728.0 W Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"><u>Cooling</u></td> <td style="width: 50%; border: none;"><u>Heating</u></td> </tr> <tr> <td style="border: none;">Vent Type: None</td> <td style="border: none;">None</td> </tr> <tr> <td style="border: none;">Vent Value: 17.00 cfm</td> <td style="border: none;">17.00 cfm</td> </tr> <tr> <td style="border: none;">Vent Schedule: Wyoming FC MUA</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Infil Type: HEAPY</td> <td style="border: none;">HEAPY</td> </tr> <tr> <td style="border: none;">Infil Value: 0.00 air changes/hr</td> <td style="border: none;">0.08 cfm/sq ft of wall</td> </tr> <tr> <td style="border: none;">Infil Schedule: Available (100%)</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Vav Airflow: Min: 33.00 % Clg Airflow</td> <td style="border: none;">Max: 100.00 % Clg Airflow</td> </tr> <tr> <td style="border: none;">Vav Sched: Available (100%)</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Supply: 665.00 cfm</td> <td style="border: none;">665.00 To be calculated</td> </tr> <tr> <td style="border: none;">Aux Supply: To be calculated</td> <td style="border: none;">To be calculated</td> </tr> <tr> <td style="border: none;">Room Exhaust:</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Rm Exh Sched: Available (100%)</td> <td style="border: none;"></td> </tr> </table>	<u>Cooling</u>	<u>Heating</u>	Vent Type: None	None	Vent Value: 17.00 cfm	17.00 cfm	Vent Schedule: Wyoming FC MUA		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 33.00 % Clg Airflow	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 665.00 cfm	665.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
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Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² ·°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass U Value Btu/h-ft ² ·°F	External Shading	Internal Shading	Adj	Pct	Pct	Pct	Rad	
												Temp/ Grnd Refl	Sen/ Cool Tmp	Rm/ Heat Tmp	Ret/ Perm Len	Frc/ Loss Coef	
S windows	150 ft ²	180	0 Wyoming School Window	0.0612	0.90	Wyoming Windows	71	0.43	0.31	Overhang - None	None	0.00					
Misc Load 1	155.000 W		Misc - Elementary School			Electricity							100	100		0	60.00

Room Description: 223 - SMALL GROUP ROOM

Zone Description: FC2-10

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 126 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: Conference Room # of People: 4 People People Sensible: 245 Btu/h People Latent : 155 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 672.0 W Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"><u>Cooling</u></td> <td style="width: 50%; border: none;"><u>Heating</u></td> </tr> <tr> <td style="border: none;">Vent Type: None</td> <td style="border: none;">None</td> </tr> <tr> <td style="border: none;">Vent Value: 17.00 cfm</td> <td style="border: none;">17.00 cfm</td> </tr> <tr> <td style="border: none;">Vent Schedule: Wyoming FC MUA</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Infil Type: HEAPY</td> <td style="border: none;">HEAPY</td> </tr> <tr> <td style="border: none;">Infil Value: 0.00 air changes/hr</td> <td style="border: none;">0.08 cfm/sq ft of wall</td> </tr> <tr> <td style="border: none;">Infil Schedule: Available (100%)</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Vav Airflow: Min: 33.00 % Clg Airflow</td> <td style="border: none;">Max: 100.00 % Clg Airflow</td> </tr> <tr> <td style="border: none;">Vav Sched: Available (100%)</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Supply: 160.00 cfm</td> <td style="border: none;">160.00 To be calculated</td> </tr> <tr> <td style="border: none;">Aux Supply: To be calculated</td> <td style="border: none;">To be calculated</td> </tr> <tr> <td style="border: none;">Room Exhaust:</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Rm Exh Sched: Available (100%)</td> <td style="border: none;"></td> </tr> </table>	<u>Cooling</u>	<u>Heating</u>	Vent Type: None	None	Vent Value: 17.00 cfm	17.00 cfm	Vent Schedule: Wyoming FC MUA		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 33.00 % Clg Airflow	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 160.00 cfm	160.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
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Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² ·°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass U Value Btu/h-ft ² ·°F	External Shading	Internal Shading	Adj	Pct	Pct	Pct	Rad	
												Temp/ Grnd Refl	Sen/ Cool Tmp	Rm/ Heat Tmp	Ret/ Perm Len	Frc/ Loss Coef	
Misc Load 1	155.000 W		Misc - Elementary School			Electricity							100	100		0	60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 220A - CORRIDOR

Zone Description: FC2-13

System Description: FC

<u>GENERAL INFORMATION</u>	<u>PEOPLE</u>	<u>AIRFLOW INFORMATION</u>																										
Floor Area: 475 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 728.0 W Ballast Factor: 1.0	<table style="width: 100%;"> <tr> <th style="text-align: center;"><u>Cooling</u></th> <th style="text-align: center;"><u>Heating</u></th> </tr> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 38.00 cfm</td> <td>38.00 cfm</td> </tr> <tr> <td>Vent Schedule: Wyoming FC MUA</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 33.00 % Clg Airflow</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 100.00 cfm</td> <td>100.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </table>	<u>Cooling</u>	<u>Heating</u>	Vent Type: None	None	Vent Value: 38.00 cfm	38.00 cfm	Vent Schedule: Wyoming FC MUA		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 33.00 % Clg Airflow	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 100.00 cfm	100.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
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									U Value Btu/h-ft ² ·°F	Internal Shading								
Partition - 1	300 ft ²		0.75* Gyp Frame	0.3880														Adjacent Room: 221 - EXTENDED LE
Partition - 2	200 ft ²		0.75* Gyp Frame	0.3880														Adjacent Room: 213 - CLASSROOM
Partition - 3	150 ft ²		0.75* Gyp Frame	1.0000														Adjacent Room: 220B - CORRIDOR

Room Description: 201 - STAIR HALL

Zone Description: FC2-14

System Description: FC

<u>GENERAL INFORMATION</u>	<u>PEOPLE</u>	<u>AIRFLOW INFORMATION</u>																										
Floor Area: 1,250 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 728.0 W Ballast Factor: 1.0	<table style="width: 100%;"> <tr> <th style="text-align: center;"><u>Cooling</u></th> <th style="text-align: center;"><u>Heating</u></th> </tr> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 100.00 cfm</td> <td>100.00 cfm</td> </tr> <tr> <td>Vent Schedule: Wyoming FC MUA</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 33.00 % Clg Airflow</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 260.00 cfm</td> <td>260.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </table>	<u>Cooling</u>	<u>Heating</u>	Vent Type: None	None	Vent Value: 100.00 cfm	100.00 cfm	Vent Schedule: Wyoming FC MUA		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 33.00 % Clg Airflow	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 260.00 cfm	260.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
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									U Value Btu/h-ft ² ·°F	Internal Shading							

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 302 - SMALL GROUP ROOM

Zone Description: FC3-01

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 100 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: Conference Room # of People: 4 People People Sensible: 245 Btu/h People Latent : 155 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 240.0 W Ballast Factor: 1.0	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Cooling</th> <th style="text-align: center;">Heating</th> </tr> </thead> <tbody> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 15.00 cfm</td> <td>15.00 cfm</td> </tr> <tr> <td>Vent Schedule: Wyoming FC MUA</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 33.00 % Clg Airflow</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 150.00 cfm</td> <td>150.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </tbody> </table>	Cooling	Heating	Vent Type: None	None	Vent Value: 15.00 cfm	15.00 cfm	Vent Schedule: Wyoming FC MUA		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 33.00 % Clg Airflow	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 150.00 cfm	150.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
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									U Value Btu/h·ft ² ·°F	Internal Shading								
Roof - 1	100 ft ²	0	90 Wyoming New Roof	0.0403	0.90		0				Overhang - None	None						
Misc Load 1	155.000 W		Misc - Elementary School			Electricity									100	100	0	60.00

Room Description: 303A - CORRIDOR

Zone Description: FC3-01

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 475 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1,392.0 W Ballast Factor: 1.0	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Cooling</th> <th style="text-align: center;">Heating</th> </tr> </thead> <tbody> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 38.00 cfm</td> <td>38.00 cfm</td> </tr> <tr> <td>Vent Schedule: Wyoming FC MUA</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 33.00 % Clg Airflow</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 100.00 cfm</td> <td>100.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </tbody> </table>	Cooling	Heating	Vent Type: None	None	Vent Value: 38.00 cfm	38.00 cfm	Vent Schedule: Wyoming FC MUA		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 33.00 % Clg Airflow	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 100.00 cfm	100.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
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Roof - 1	475 ft ²	0	90 Wyoming New Roof	0.0403	0.90		0				Overhang - None	None						
Partition - 1	300 ft ²		0.75* Gyp Frame	0.3880														Adjacent Room: 304 - CLASSROOM
Partition - 2	300 ft ²		0.75* Gyp Frame	0.3880														Adjacent Room: 333 - EXTENDED LE

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 303B - CORRIDOR

Zone Description: FC3-03

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 475 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 112.0 W Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <th style="text-align: center;">Cooling</th> <th style="text-align: center;">Heating</th> </tr> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 38.00 cfm</td> <td>38.00 cfm</td> </tr> <tr> <td>Vent Schedule: Wyoming FC MUA</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 33.00 % Clg Airflow</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 100.00 cfm</td> <td>100.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </table>	Cooling	Heating	Vent Type: None	None	Vent Value: 38.00 cfm	38.00 cfm	Vent Schedule: Wyoming FC MUA		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 33.00 % Clg Airflow	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 100.00 cfm	100.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
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Room Exhaust:																												
Rm Exh Sched: Available (100%)																												

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² ·°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
						Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² ·°F					
Roof - 1	475 ft ²	0	90 Wyoming New Roof	0.0403	0.90		0							
Partition - 1	300 ft ²		0.75* Gyp Frame	0.3880										Adjacent Room: 301 - CLASSROOM
Partition - 2	300 ft ²		0.75* Gyp Frame	0.3880										Adjacent Room: 350 - CLASSROOM

Room Description: 305 - SMALL GROUP ROOM

Zone Description: FC3-03

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 88 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: Conference Room # of People: 4 People People Sensible: 245 Btu/h People Latent : 155 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 984.0 W Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <th style="text-align: center;">Cooling</th> <th style="text-align: center;">Heating</th> </tr> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 14.00 cfm</td> <td>14.00 cfm</td> </tr> <tr> <td>Vent Schedule: Wyoming FC MUA</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 33.00 % Clg Airflow</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 145.00 cfm</td> <td>145.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </table>	Cooling	Heating	Vent Type: None	None	Vent Value: 14.00 cfm	14.00 cfm	Vent Schedule: Wyoming FC MUA		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 33.00 % Clg Airflow	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 145.00 cfm	145.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
Cooling	Heating																											
Vent Type: None	None																											
Vent Value: 14.00 cfm	14.00 cfm																											
Vent Schedule: Wyoming FC MUA																												
Infil Type: HEAPY	HEAPY																											
Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall																											
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Vav Airflow: Min: 33.00 % Clg Airflow	Max: 100.00 % Clg Airflow																											
Vav Sched: Available (100%)																												
Supply: 145.00 cfm	145.00 To be calculated																											
Aux Supply: To be calculated	To be calculated																											
Room Exhaust:																												
Rm Exh Sched: Available (100%)																												

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² ·°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
						Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² ·°F					
Roof - 1	88 ft ²	0	90 Wyoming New Roof	0.0403	0.90		0							
Misc Load 1	155.000 W		Misc - Elementary School			Electricity								100 100 0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 309 - CORRIDOR

Zone Description: FC3-05

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 715 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 672.0 W Ballast Factor: 1.0	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Cooling</th> <th style="text-align: center;">Heating</th> </tr> </thead> <tbody> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 58.00 cfm</td> <td>58.00 cfm</td> </tr> <tr> <td>Vent Schedule: Wyoming FC MUA</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 33.00 % Clg Airflow</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 150.00 cfm</td> <td>150.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </tbody> </table>	Cooling	Heating	Vent Type: None	None	Vent Value: 58.00 cfm	58.00 cfm	Vent Schedule: Wyoming FC MUA		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 33.00 % Clg Airflow	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 150.00 cfm	150.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
Cooling	Heating																											
Vent Type: None	None																											
Vent Value: 58.00 cfm	58.00 cfm																											
Vent Schedule: Wyoming FC MUA																												
Infil Type: HEAPY	HEAPY																											
Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall																											
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Supply: 150.00 cfm	150.00 To be calculated																											
Aux Supply: To be calculated	To be calculated																											
Room Exhaust:																												
Rm Exh Sched: Available (100%)																												

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
						Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
Roof - 1	715 ft ²	0	90 Wyoming New Roof	0.0403	0.90		0							
Partition - 1	300 ft ²		0.75* Gyp Frame	0.3880										Adjacent Room: 307 - CLASSROOM
Partition - 2	300 ft ²		0.75* Gyp Frame	0.3880										Adjacent Room: 310 - CLASSROOM

Room Description: 342 - SMALL GROUP ROOM

Zone Description: FC3-06

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 138 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: Conference Room # of People: 4 People People Sensible: 245 Btu/h People Latent : 155 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 56.0 W Ballast Factor: 1.0	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Cooling</th> <th style="text-align: center;">Heating</th> </tr> </thead> <tbody> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 18.00 cfm</td> <td>18.00 cfm</td> </tr> <tr> <td>Vent Schedule: Wyoming FC MUA</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 33.00 % Clg Airflow</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 165.00 cfm</td> <td>165.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </tbody> </table>	Cooling	Heating	Vent Type: None	None	Vent Value: 18.00 cfm	18.00 cfm	Vent Schedule: Wyoming FC MUA		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 33.00 % Clg Airflow	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 165.00 cfm	165.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
Cooling	Heating																											
Vent Type: None	None																											
Vent Value: 18.00 cfm	18.00 cfm																											
Vent Schedule: Wyoming FC MUA																												
Infil Type: HEAPY	HEAPY																											
Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall																											
Infil Schedule: Available (100%)																												
Vav Airflow: Min: 33.00 % Clg Airflow	Max: 100.00 % Clg Airflow																											
Vav Sched: Available (100%)																												
Supply: 165.00 cfm	165.00 To be calculated																											
Aux Supply: To be calculated	To be calculated																											
Room Exhaust:																												
Rm Exh Sched: Available (100%)																												

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
						Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
Roof - 1	138 ft ²	0	90 Wyoming New Roof	0.0403	0.90		0							
Misc Load 1	155.000 W		Misc - Elementary School			Electricity								100 100 0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 343 - SMALL GROUP ROOM

Zone Description: FC3-06

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 138 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Conference Room # of People: 4 People People Sensible: 245 Btu/h People Latent : 155 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 560.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 18.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 405.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 18.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 405.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
Roof - 1	138 ft ²	0	90	Wyoming New Roof	0.0403	0.90									
S	52 ft ²	180	0	Wyoming School	0.0612	0.90									
Opening - 1				Window			Wyoming	33	0.43	0.31	Overhang - None	None	0.00		
Misc Load 1	155.000 W			Misc - Elementary School			Electricity						100	100	0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 311 - GIRLS TLT

Zone Description: FC3-07

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 238 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 78.0 °F / 83.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 560.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 0.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 455.00 cfm Aux Supply: To be calculated Room Exhaust: 490.00 cfm Rm Exh Sched: Wyoming General Heating None 0.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 225.00 % Htg Airflow To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h·ft ² ·°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h·ft ² ·°F						External Shading
Roof - 1	238 ft ²	0	90	Wyoming New Roof	0.0403	0.90										
N	208 ft ²	0	0	Wyoming School	0.0612	0.90										
Opening - 1				Window			Wyoming Windows	72	0.43	0.31	Overhang - None	None				0.00
W	39 ft ²	270	0	Wyoming School	0.0612	0.90										
Partition - 1	100 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 310 - CLASSROOM
Partition - 2	100 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 313 - CLASSROOM
Partition - 3	100 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 314 - CORRIDOR

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 314 - CORRIDOR

Zone Description: FC3-07

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 563 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 56.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 46.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 120.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating Vent Type: None Vent Value: 46.00 cfm Infil Type: HEAPY Infil Value: 0.08 cfm/sq ft of wall Infil Schedule: Available (100%) Vav Airflow: Max: 100.00 % Clg Airflow Vav Sched: Available (100%) Supply: 175.00 % Htg Airflow Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F						External Shading
Roof - 1	563 ft ²	0	90	Wyoming New Roof	0.0403	0.90		0			Overhang - None	None				
Partition - 1	300 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 313 - CLASSROOM
Partition - 2	300 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 339 - CLASSROOM
Partition - 3	300 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 338 - CLASSROOM

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 316 - BOYS TLT

Zone Description: FC3-08

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 185 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 78.0 °F / 83.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 168.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 0.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 465.00 cfm Aux Supply: To be calculated Room Exhaust: 490.00 cfm Rm Exh Sched: Wyoming General Heating None 0.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 225.00 % Htg Airflow To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F						External Shading
Roof - 1	185 ft ²	0	90	Wyoming New Roof	0.0403	0.90										
N Opening - 1	221 ft ²	0	0	Wyoming School Window	0.0612	0.90	Wyoming Windows	72	0.43	0.31	Overhang - None	None	0.00			
E Partition - 1	39 ft ²	90	0	Wyoming School	0.0612	0.90										
Partition - 2	100 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 313 - CLASSROOM
Partition - 3	100 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 319 - CLASSROOM
																Adjacent Room: 317 - STAFF TLT

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 317 - STAFF TLT

Zone Description: FC3-08

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 51 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 78.0 °F / 83.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 280.0 W Ballast Factor: 1.0	Cooling Heating Vent Type: None None Vent Value: 0.00 cfm 0.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY HEAPY Infil Value: 0.00 air changes/hr 0.08 cfm/sq ft of wall Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Max: 100.00 % Clg Airflow Vav Sched: Available (100%) Supply: 10.00 cfm 10.00 To be calculated Aux Supply: To be calculated To be calculated Room Exhaust: 70.00 cfm Rm Exh Sched: Wyoming General

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h·ft ² ·°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h·ft ² ·°F					
Roof - 1	51 ft ²	0	90	Wyoming New Roof	0.0403	0.90									
Partition - 1	200 ft ²			0.75" Gyp Frame	0.3880										

Adjacent Room: 314 - CORRIDOR

Room Description: 339 - CLASSROOM

Zone Description: FC3-09

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 719 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: Classroom # of People: 19 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 168.0 W Ballast Factor: 1.0	Cooling Heating Vent Type: None None Vent Value: 468.00 cfm 468.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY HEAPY Infil Value: 0.00 air changes/hr 0.08 cfm/sq ft of wall Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Max: 100.00 % Clg Airflow Vav Sched: Available (100%) Supply: 860.00 cfm 860.00 To be calculated Aux Supply: To be calculated To be calculated Room Exhaust: Rm Exh Sched: Available (100%)

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h·ft ² ·°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h·ft ² ·°F					
Roof - 1	719 ft ²	0	90	Wyoming New Roof	0.0403	0.90									
Misc Load 1	800.000 W			Misc - Elementary School			Electricity								

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 338 - CLASSROOM

Zone Description: FC3-10

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 418 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 7 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person <h3 style="text-align: center;">LIGHTS</h3> Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 168.0 W Ballast Factor: 1.0	<h3 style="text-align: center;">Cooling</h3> Vent Type: None Vent Value: 270.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 510.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		<h3 style="text-align: center;">Heating</h3> None 270.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 510.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h·ft ² ·°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h·ft ² ·°F	External Shading					
Roof - 1	418 ft ²	0	90	Wyoming New Roof	0.0403	0.90		0			Overhang - None	None				
Misc Load 1	800.000 W			Misc - Elementary School			Electricity						100	100	0	60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 318 - CORRIDOR

Zone Description: FC3-11

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 722 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1,392.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 58.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 220.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 58.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 150.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
Roof - 1	722 ft ²	0	90	Wyoming New Roof	0.0403	0.90		0			Overhang - None		None		
Partition - 1	300 ft ²			0.75* Gyp Frame	0.3880										Adjacent Room: 319 - CLASSROOM
Partition - 2	300 ft ²			0.75* Gyp Frame	0.3880										Adjacent Room: 321 - CLASSROOM
Partition - 3	300 ft ²			0.75* Gyp Frame	0.3880										Adjacent Room: 336 - CLASSROOM
Partition - 4	200 ft ²			0.75* Gyp Frame	1.0000										Adjacent Room: 314 - CORRIDOR
Partition - 5	200 ft ²			0.75* Gyp Frame	1.0000										Adjacent Room: 328A - CORRIDOR

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 334 - SMALL GROUP ROOM

Zone Description: FC3-12

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 126 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Conference Room # of People: 4 People People Sensible: 245 Btu/h People Latent : 155 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 184.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 17.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 650.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 17.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 650.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h·ft ² ·°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h·ft ² ·°F						External Shading
Roof - 1	126 ft ²	0	90	Wyoming New Roof	0.0403	0.90										
S	143 ft ²	180	0	Wyoming School	0.0612	0.90										
Opening - 1				Window			Wyoming	69	0.43	0.31	Overhang - None	None	0.00			
Misc Load 1	155.000 W			Misc - Elementary School			Electricity									100 100 0 60.00
Partition - 1	100 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 335 - SMALL GROU
Partition - 2	100 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 336 - CLASSROOM
Partition - 3	100 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 333 - EXTENDED LE

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 335 - SMALL GROUP ROOM

Zone Description: FC3-12

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 131 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: Conference Room # of People: 4 People People Sensible: 245 Btu/h People Latent : 155 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 728.0 W Ballast Factor: 1.0	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Cooling</th> <th style="text-align: center;">Heating</th> </tr> </thead> <tbody> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 17.00 cfm</td> <td>17.00 cfm</td> </tr> <tr> <td>Vent Schedule: Wyoming FC MUA</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 33.00 % Clg Airflow</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 160.00 cfm</td> <td>160.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </tbody> </table>	Cooling	Heating	Vent Type: None	None	Vent Value: 17.00 cfm	17.00 cfm	Vent Schedule: Wyoming FC MUA		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 33.00 % Clg Airflow	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 160.00 cfm	160.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
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Supply: 160.00 cfm	160.00 To be calculated																											
Aux Supply: To be calculated	To be calculated																											
Room Exhaust:																												
Rm Exh Sched: Available (100%)																												

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² ·°F	Alpha	Type / Energy Type	Glass			External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Shade Coef	U Value Btu/h-ft ² ·°F	Area ft ²							
Roof - 1	131 ft ²	0	90 Wyoming New Roof	0.0403	0.90					Overhang - None	None					
Misc Load 1	155.000 W		Misc - Elementary School			Electricity							100	100	0	60.00

Room Description: 333 - EXTENDED LEARNING CENTER

Zone Description: FC3-13

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 843 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: General Office Space # of People: 143 sq ft/person People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 168.0 W Ballast Factor: 1.0	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Cooling</th> <th style="text-align: center;">Heating</th> </tr> </thead> <tbody> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 102.00 cfm</td> <td>102.00 cfm</td> </tr> <tr> <td>Vent Schedule: Wyoming FC MUA</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 33.00 % Clg Airflow</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 1,155.00 cfm</td> <td>1,155.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </tbody> </table>	Cooling	Heating	Vent Type: None	None	Vent Value: 102.00 cfm	102.00 cfm	Vent Schedule: Wyoming FC MUA		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 33.00 % Clg Airflow	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 1,155.00 cfm	1,155.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
Cooling	Heating																											
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Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² ·°F	Alpha	Type / Energy Type	Glass			External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Shade Coef	U Value Btu/h-ft ² ·°F	Area ft ²							
Roof - 1	843 ft ²	0	90 Wyoming New Roof	0.0403	0.90					Overhang - None	None					
Misc Load 1	1,600.000 W		Misc - Elementary School			Electricity							100	100	0	60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 323 - SMALL GROUP ROOM

Zone Description: FC3-14

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 98 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: Conference Room # of People: 4 People People Sensible: 245 Btu/h People Latent : 155 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1,008.0 W Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <th style="text-align: center;">Cooling</th> <th style="text-align: center;">Heating</th> </tr> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 15.00 cfm</td> <td>15.00 cfm</td> </tr> <tr> <td>Vent Schedule: Wyoming FC MUA</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 33.00 % Clg Airflow</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 150.00 cfm</td> <td>150.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </table>	Cooling	Heating	Vent Type: None	None	Vent Value: 15.00 cfm	15.00 cfm	Vent Schedule: Wyoming FC MUA		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 33.00 % Clg Airflow	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 150.00 cfm	150.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
Cooling	Heating																											
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Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h·ft ² ·°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
						Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h·ft ² ·°F	External Shading					
Roof - 1	98 ft ²	0	90 Wyoming New Roof	0.0403	0.90		0								
Misc Load 1	155.000 W		Misc - Elementary School			Electricity							100	100	0 60.00

Room Description: 328B - CORRIDOR

Zone Description: FC3-14

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 475 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 588.0 W Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <th style="text-align: center;">Cooling</th> <th style="text-align: center;">Heating</th> </tr> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 38.00 cfm</td> <td>38.00 cfm</td> </tr> <tr> <td>Vent Schedule: Wyoming FC MUA</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 33.00 % Clg Airflow</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 110.00 cfm</td> <td>100.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </table>	Cooling	Heating	Vent Type: None	None	Vent Value: 38.00 cfm	38.00 cfm	Vent Schedule: Wyoming FC MUA		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 33.00 % Clg Airflow	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 110.00 cfm	100.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
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Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h·ft ² ·°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
						Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h·ft ² ·°F	External Shading					
Roof - 1	475 ft ²	0	90 Wyoming New Roof	0.0403	0.90		0								
Partition - 1	300 ft ²		0.75* Gyp Frame	0.3880											Adjacent Room: 326 - CLASSROOM
Partition - 2	300 ft ²		0.75* Gyp Frame	0.3880											Adjacent Room: 327 - CLASSROOM
Partition - 3	300 ft ²		0.75* Gyp Frame	1.0000											Adjacent Room: 328A - CORRIDOR

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 329 - OFFICE

Zone Description: FC3-15

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 100 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: General Office Space # of People: 143 sq ft/person People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 168.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 15.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 265.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 15.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 265.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F						External Shading
Roof - 1	100 ft ²	0	90	Wyoming New Roof	0.0403	0.90										
W	156 ft ²	270	0	Wyoming School	0.0612	0.90										
Opening - 1				Window			Wyoming	19	0.43	0.31	Overhang - None	None	0.00			
Misc Load 1	300.000 W			Misc - Elementary School			Electricity							100	100	0 60.00
Partition - 1	100 ft ²			0.75* Gyp Frame	0.3880									Adjacent Room: 330 - STORAGE		
Partition - 2	100 ft ²			0.75* Gyp Frame	0.3880									Adjacent Room: 333 - EXTENDED LE		

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 330 - STORAGE

Zone Description: FC3-15

System Description: FC

<u>GENERAL INFORMATION</u>	<u>PEOPLE</u>	<u>AIRFLOW INFORMATION</u>																										
Floor Area: 92 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 448.0 W Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;"><u>Cooling</u></td> <td style="width: 50%;"><u>Heating</u></td> </tr> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 0.00 cfm</td> <td>0.00 cfm</td> </tr> <tr> <td>Vent Schedule: Wyoming FC MUA</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 33.00 % Clg Airflow</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 20.00 cfm</td> <td>20.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </table>	<u>Cooling</u>	<u>Heating</u>	Vent Type: None	None	Vent Value: 0.00 cfm	0.00 cfm	Vent Schedule: Wyoming FC MUA		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 33.00 % Clg Airflow	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 20.00 cfm	20.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
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Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
						Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F							
Roof - 1	92 ft ²	0	90 Wyoming New Roof	0.0403	0.90		0			Overhang - None	None					
Partition - 1	100 ft ²		0.75* Gyp Frame	0.3880												Adjacent Room: 331 - PREP
Partition - 2	100 ft ²		0.75* Gyp Frame	0.3880												Adjacent Room: 333 - EXTENDED LE

Room Description: 331 - PREP

Zone Description: FC3-15

System Description: FC

<u>GENERAL INFORMATION</u>	<u>PEOPLE</u>	<u>AIRFLOW INFORMATION</u>																										
Floor Area: 115 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 728.0 W Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;"><u>Cooling</u></td> <td style="width: 50%;"><u>Heating</u></td> </tr> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 16.00 cfm</td> <td>16.00 cfm</td> </tr> <tr> <td>Vent Schedule: Wyoming FC MUA</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 33.00 % Clg Airflow</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 70.00 cfm</td> <td>25.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </table>	<u>Cooling</u>	<u>Heating</u>	Vent Type: None	None	Vent Value: 16.00 cfm	16.00 cfm	Vent Schedule: Wyoming FC MUA		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 33.00 % Clg Airflow	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 70.00 cfm	25.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
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Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
						Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F							
Roof - 1	115 ft ²	0	90 Wyoming New Roof	0.0403	0.90		0			Overhang - None	None					
Partition - 1	150 ft ²		0.75* Gyp Frame	0.3880												Adjacent Room: 327 - CLASSROOM
Partition - 2	150 ft ²		0.75* Gyp Frame	0.3880												Adjacent Room: 333 - EXTENDED LE

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 328A - CORRIDOR

Zone Description: FC3-16

System Description: FC

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 475 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 540.0 W Ballast Factor: 1.0	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Cooling</th> <th style="text-align: center;">Heating</th> </tr> </thead> <tbody> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 38.00 cfm</td> <td>38.00 cfm</td> </tr> <tr> <td>Vent Schedule: Wyoming FC MUA</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 33.00 % Clg Airflow</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 110.00 cfm</td> <td>100.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </tbody> </table>	Cooling	Heating	Vent Type: None	None	Vent Value: 38.00 cfm	38.00 cfm	Vent Schedule: Wyoming FC MUA		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 33.00 % Clg Airflow	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 110.00 cfm	100.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
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Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
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Partition - 3	300 ft ²		0.75* Gyp Frame	0.3880										Adjacent Room: 344 - EXTENDED LE

Room Description: 1003 - STAIR A

Zone Description: No Zone

System Description: HEATING ONLY

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 429 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1,092.0 W Ballast Factor: 1.0	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Cooling</th> <th style="text-align: center;">Heating</th> </tr> </thead> <tbody> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 0.00 cfm</td> <td>0.00 cfm</td> </tr> <tr> <td>Vent Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 100.00 % Clg Airflow</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: To be calculated</td> <td>240.00 cfm</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </tbody> </table>	Cooling	Heating	Vent Type: None	None	Vent Value: 0.00 cfm	0.00 cfm	Vent Schedule: Available (100%)		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 100.00 % Clg Airflow	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: To be calculated	240.00 cfm	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
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Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
						Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
E	195 ft ²	90	0 Wyoming School	0.0612	0.90									

Floor - 1

15 0.53

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 110 - STAIR

Zone Description: No Zone

System Description: HEATING ONLY

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 195 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1,176.0 W Ballast Factor: 1.0	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Cooling</th> <th style="text-align: center;">Heating</th> </tr> </thead> <tbody> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 0.00 cfm</td> <td>0.00 cfm</td> </tr> <tr> <td>Vent Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 100.00 % Clg Airflow</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: To be calculated</td> <td>240.00 cfm</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </tbody> </table>	Cooling	Heating	Vent Type: None	None	Vent Value: 0.00 cfm	0.00 cfm	Vent Schedule: Available (100%)		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 100.00 % Clg Airflow	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: To be calculated	240.00 cfm	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
Cooling	Heating																											
Vent Type: None	None																											
Vent Value: 0.00 cfm	0.00 cfm																											
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Supply: To be calculated	240.00 cfm																											
Aux Supply: To be calculated	To be calculated																											
Room Exhaust:																												
Rm Exh Sched: Available (100%)																												

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² -°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading	Internal Shading	Adj	Pct	Pct	Pct	Rad	
												Temp/ Grnd Refl	Sen/ Cool Tmp	Rm/ Heat Tmp	Ret/ Heat Len	Frc/ Perm Coef	
N	473 ft ²	0	0 Wyoming School	0.0612	0.90												
Opening - 1			Window			Wyoming Windows	67	0.43	0.31	Overhang - None	None	0.00					
Partition - 1	200 ft ²		0.75* Gyp Frame	0.3880								Adjacent Room: 107 - ART CLASSRC					
Floor - 1																	11 0.53

Room Description: 125 - STAIR

Zone Description: No Zone

System Description: HEATING ONLY

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 413 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 168.0 W Ballast Factor: 1.0	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Cooling</th> <th style="text-align: center;">Heating</th> </tr> </thead> <tbody> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 0.00 cfm</td> <td>0.00 cfm</td> </tr> <tr> <td>Vent Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 100.00 % Clg Airflow</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: To be calculated</td> <td>240.00 cfm</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </tbody> </table>	Cooling	Heating	Vent Type: None	None	Vent Value: 0.00 cfm	0.00 cfm	Vent Schedule: Available (100%)		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 100.00 % Clg Airflow	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: To be calculated	240.00 cfm	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
Cooling	Heating																											
Vent Type: None	None																											
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Supply: To be calculated	240.00 cfm																											
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Room Exhaust:																												
Rm Exh Sched: Available (100%)																												

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² -°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading	Internal Shading	Adj	Pct	Pct	Pct	Rad	
												Temp/ Grnd Refl	Sen/ Cool Tmp	Rm/ Heat Tmp	Ret/ Heat Len	Frc/ Perm Coef	
E	169 ft ²	90	0 Wyoming School	0.0612	0.90												
Floor - 1																	13 0.53

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 107 - ART CLASSROOM

Zone Description: No Zone

System Description: UV

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 1,336 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 33 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 448.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 610.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 2,500.00 cfm Aux Supply: To be calculated Room Exhaust: 935.00 cfm Rm Exh Sched: Wyoming General Heating None 610.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 2,500.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
N	673 ft ²	0	0	Wyoming School	0.0612	0.90									
doors				Door			Standard Door	356	0.00	0.20	Overhang - None	None	0.00		
windows				Window			Wyoming Windows	30	0.43	0.31	Overhang - None	None	0.00		
Misc Load 1	800.000 W			Misc - Elementary School			Electricity						100	100	0 60.00
Floor - 1															52 0.53

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 111 - ART CLASSROOM

Zone Description: No Zone

System Description: UV

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 926 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 138.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 500.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 2,000.00 cfm Aux Supply: To be calculated Room Exhaust: 980.00 cfm Rm Exh Sched: Wyoming General Heating None 500.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 2,000.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h·ft ² ·°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h·ft ² ·°F	External Shading					
E	481 ft ²	90	0	Wyoming School	0.0612	0.90										
Opening - 1				Window			Wyoming Windows	133	0.43	0.31	Overhang - None	None	0.00			
N	325 ft ²	0	0	Wyoming School	0.0612	0.90										
Opening - 1				Window			Wyoming Windows	100	0.43	0.31	Overhang - None	None	0.00			
Misc Load 1	800.000 W			Misc - Elementary School			Electricity							100	100	0 60.00
Partition - 1	200 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 110 - STAIR
Partition - 2	200 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 113 - ART CLASSRC
Floor - 1																62 0.53

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 113 - ART CLASSROOM

Zone Description: No Zone

System Description: UV

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 473 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 10 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 168.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 235.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 1,250.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 235.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,250.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F						External Shading
E	273 ft ²	90	0	Wyoming School	0.0612	0.90	Wyoming Windows	133	0.43	0.31	Overhang - None	None	0.00			
Opening - 1				Window			Electricity									
Misc Load 1	800.000 W			Misc - Elementary School									100	100	0	60.00
Floor - 1															21	0.53

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 117 - MULTI-HANDICAPPED

Zone Description: No Zone

System Description: UV

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 700 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 11 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1,008.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 250.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 1,500.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 250.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,500.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
E	416 ft ²	90	0	Wyoming School	0.0612	0.90									
Opening - 1				Window			Wyoming	207	0.43	0.31	Overhang - None	None	0.00		
Misc Load 1	800.000 W			Misc - Elementary School			Electricity						100	100	0 60.00
Floor - 1															32 0.53

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 118 - FITNESS CENTER

Zone Description: No Zone

System Description: UV

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 793 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Gym # of People: 70 sq ft/person People Sensible: 710 Btu/h People Latent : 1,090 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 616.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 310.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 1,250.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 310.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,250.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h·ft ² ·°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h·ft ² ·°F	External Shading						Internal Shading
W windows Floor - 1	325 ft ²	270	0	Wyoming School Window	0.0612	0.90	Wyoming Windows	64	0.43	0.31	Overhang - None	None	0.00			25	0.53

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 120 - CLASSROOM

Zone Description: No Zone

System Description: UV

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 687 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 560.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 415.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 1,500.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 415.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,500.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
W	338 ft ²	270	0	Wyoming School	0.0612	0.90									
Opening - 1				Window			Wyoming	64	0.43	0.31	Overhang - None	None	0.00		
Misc Load 1	800.000 W			Misc - Elementary School			Electricity						100	100	0 60.00
Floor - 1															26 0.53

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 123 - CLASSROOM

Zone Description: No Zone

System Description: UV

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 700 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 424.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 420.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 1,500.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 420.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,500.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
S	364 ft ²	180	0	Wyoming School	0.0612	0.90									
Opening - 1				Window			Wyoming	128	0.43	0.31	Overhang - None	None	0.00		
Misc Load 1	800.000 W			Misc - Elementary School			Electricity						100	100	0 60.00
Floor - 1															28 0.53

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 141 - PROFESSIONAL DEVELOPMENT

Zone Description: No Zone

System Description: UV

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 815 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1,538.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 220.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 1,500.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 220.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,500.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
S	416 ft ²	180	0	Wyoming School	0.0612	0.90									
Opening - 1				Window			Wyoming	162	0.43	0.31	Overhang - None	None	0.00		
Misc Load 1	800.000 W			Misc - Elementary School			Electricity						100	100	0 60.00
Floor - 1															32 0.53

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 146 - CLINIC

Zone Description: No Zone

System Description: UV

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 433 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: General Office Space # of People: 143 sq ft/person People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 560.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 65.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 750.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 65.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 750.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
E	124 ft ²	90	0	Wyoming School	0.0612	0.90									
Opening - 1				Window			Wyoming	69	0.43	0.31	Overhang - None	None	0.00		
Misc Load 1	650.000 W			Misc - Elementary School			Electricity						100	100	0 60.00
Floor - 1															10 0.53

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 158 - WORKROOM

Zone Description: No Zone

System Description: UV

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 359 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: General Office Space # of People: 143 sq ft/person People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 112.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 100.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 1,250.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 100.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,250.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F						External Shading
W	283 ft ²	270	0	Wyoming School	0.0612	0.90	Wyoming Windows	143	0.43	0.31	Overhang - None	None	0.00			
Opening - 1				Window			Electricity									
Misc Load 1	2,600.000 W			Misc - Elementary School									100	100	0	60.00
Floor - 1															22	0.53

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 162 - CONFERENCE

Zone Description: No Zone

System Description: UV

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 437 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Conference Room # of People: 8 People People Sensible: 245 Btu/h People Latent : 155 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 280.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 105.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 750.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 105.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 190.00 % Htg Airflow To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h·ft ² ·°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h·ft ² ·°F	External Shading					
N	332 ft ²	0	0	Wyoming School	0.0612	0.90										
Opening - 1				Window			Wyoming Windows	100	0.43	0.31	Overhang - None	None	0.00			
W	228 ft ²	270	0	Wyoming School	0.0612	0.90										
Opening - 1				Window			Wyoming Windows	67	0.43	0.31	Overhang - None	None	0.00			
Misc Load 1	585.000 W			Misc - Elementary School			Cooling Load							100	100	0 60.00
Partition - 1	200 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 161 - OFFICE
Partition - 2	200 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 157 - CORRIDOR
Floor - 1																43 0.53

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 164 - MEDIA CENTER

Zone Description: No Zone

System Description: UV

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 2,175 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Library # of People: 35 sq ft/person People Sensible: 245 Btu/h People Latent : 155 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 56.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 650.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 2,500.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 650.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 2,500.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading					
N	855 ft ²	0	0	Wyoming School	0.0612	0.90										
Opening - 1				Window			Wyoming Windows	428	0.43	0.31	Overhang - None	None	0.00			
W	117 ft ²	270	0	Wyoming School	0.0612	0.90										
Misc Load 1	2,135.000 W			Misc - Elementary School			Electricity							100	100	0 60.00
Floor - 1																75 0.53

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 210 - CLASSROOM

Zone Description: No Zone

System Description: UV

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 693 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 112.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 415.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 1,500.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 415.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,500.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
N	390 ft ²	0	0	Wyoming School	0.0612	0.90									
Opening - 1				Window			Wyoming	214	0.43	0.31	Overhang - None	None	0.00		
Misc Load 1	800.000 W			Misc - Elementary School			Electricity						100	100	0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 212 - CLASSROOM

Zone Description: No Zone

System Description: UV

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 727 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 56.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 415.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 1,500.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 415.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,500.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h·ft ² ·°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h·ft ² ·°F	External Shading					
N window	455 ft ²	0	0	Wyoming School Window	0.0612	0.90	Wyoming Windows	214	0.43	0.31	Overhang - None	None	0.00			
E Misc Load 1	117 ft ²	90	0	Wyoming School	0.0612	0.90	Electricity							100	100	0 60.00
Partition - 1	800.000 W			Misc - Elementary School												Adjacent Room: 210 - CLASSROOM
Partition - 2	200 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 211 - SMALL GROU
Partition - 3	200 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 213 - CLASSROOM

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 213 - CLASSROOM

Zone Description: No Zone

System Description: UV

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 792 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 672.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 430.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 2,000.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 430.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 2,000.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading					
E Opening - 1	442 ft ²	90	0	Wyoming School Window	0.0612	0.90	Wyoming Windows	224	0.43	0.31	Overhang - None	None	0.00			
N Misc Load 1	234 ft ²	0	0	Wyoming School Misc - Elementary School	0.0612	0.90	Electricity							100	100	0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 215 - CLASSROOM

Zone Description: No Zone

System Description: UV

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 719 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 168.0 W Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;"><u>Cooling</u></td> <td style="text-align: center;"><u>Heating</u></td> </tr> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 420.00 cfm</td> <td>420.00 cfm</td> </tr> <tr> <td>Vent Schedule: Wyoming UV DCV</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 33.00 % Clg Airflow</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 1,500.00 cfm</td> <td>1,500.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </table>	<u>Cooling</u>	<u>Heating</u>	Vent Type: None	None	Vent Value: 420.00 cfm	420.00 cfm	Vent Schedule: Wyoming UV DCV		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 33.00 % Clg Airflow	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 1,500.00 cfm	1,500.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
<u>Cooling</u>	<u>Heating</u>																											
Vent Type: None	None																											
Vent Value: 420.00 cfm	420.00 cfm																											
Vent Schedule: Wyoming UV DCV																												
Infil Type: HEAPY	HEAPY																											
Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall																											
Infil Schedule: Available (100%)																												
Vav Airflow: Min: 33.00 % Clg Airflow	Max: 100.00 % Clg Airflow																											
Vav Sched: Available (100%)																												
Supply: 1,500.00 cfm	1,500.00 To be calculated																											
Aux Supply: To be calculated	To be calculated																											
Room Exhaust:																												
Rm Exh Sched: Available (100%)																												

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² -°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading	Internal Shading	Adj	Pct	Pct	Pct	Rad	
												Temp/ Grnd Refl	Sen/ Cool Tmp	Rm/ Heat Tmp	Ret/ Perm Len	Frc/ Loss Coef	
E	416 ft ²	90	0 Wyoming School	0.0612	0.90	Glass											
Opening - 1			Window			Wyoming Windows	214	0.43	0.31	Overhang - None	None	0.00					
Misc Load 1	800.000 W		Misc - Elementary School			Electricity							100	100		0	60.00

Room Description: 217 - CLASSROOM

Zone Description: No Zone

System Description: UV

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 735 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 28.0 W Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;"><u>Cooling</u></td> <td style="text-align: center;"><u>Heating</u></td> </tr> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 425.00 cfm</td> <td>425.00 cfm</td> </tr> <tr> <td>Vent Schedule: Wyoming UV DCV</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 33.00 % Clg Airflow</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 1,500.00 cfm</td> <td>1,500.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </table>	<u>Cooling</u>	<u>Heating</u>	Vent Type: None	None	Vent Value: 425.00 cfm	425.00 cfm	Vent Schedule: Wyoming UV DCV		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 33.00 % Clg Airflow	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 1,500.00 cfm	1,500.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
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Vav Sched: Available (100%)																												
Supply: 1,500.00 cfm	1,500.00 To be calculated																											
Aux Supply: To be calculated	To be calculated																											
Room Exhaust:																												
Rm Exh Sched: Available (100%)																												

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² -°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading	Internal Shading	Adj	Pct	Pct	Pct	Rad	
												Temp/ Grnd Refl	Sen/ Cool Tmp	Rm/ Heat Tmp	Ret/ Perm Len	Frc/ Loss Coef	
E	432 ft ²	90	0 Wyoming School	0.0612	0.90	Glass											
Opening - 1			Window			Wyoming Windows	214	0.43	0.31	Overhang - None	None	0.00					
Misc Load 1	800.000 W		Misc - Elementary School			Electricity							100	100		0	60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 218 - CLASSROOM

Zone Description: No Zone

System Description: UV

<u>GENERAL INFORMATION</u>	<u>PEOPLE</u>	<u>AIRFLOW INFORMATION</u>																										
Floor Area: 745 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 56.0 W Ballast Factor: 1.0	<table style="width: 100%;"> <tr> <th style="text-align: center;"><u>Cooling</u></th> <th style="text-align: center;"><u>Heating</u></th> </tr> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 425.00 cfm</td> <td>425.00 cfm</td> </tr> <tr> <td>Vent Schedule: Wyoming UV DCV</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 33.00 % Clg Airflow</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 1,500.00 cfm</td> <td>1,500.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </table>	<u>Cooling</u>	<u>Heating</u>	Vent Type: None	None	Vent Value: 425.00 cfm	425.00 cfm	Vent Schedule: Wyoming UV DCV		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 33.00 % Clg Airflow	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 1,500.00 cfm	1,500.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
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Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² -°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Pct Frc/ Loss Coef
W windows	332 ft ²	270	0 Wyoming School Window	0.0612	0.90	Wyoming Windows	68	0.43	0.31	Overhang - None	None	0.00				
Misc Load 1	800.000 W		Misc - Elementary School			Electricity							100	100	0	60.00

Room Description: 219 - CLASSROOM

Zone Description: No Zone

System Description: UV

<u>GENERAL INFORMATION</u>	<u>PEOPLE</u>	<u>AIRFLOW INFORMATION</u>																										
Floor Area: 735 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 280.0 W Ballast Factor: 1.0	<table style="width: 100%;"> <tr> <th style="text-align: center;"><u>Cooling</u></th> <th style="text-align: center;"><u>Heating</u></th> </tr> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 425.00 cfm</td> <td>425.00 cfm</td> </tr> <tr> <td>Vent Schedule: Wyoming UV DCV</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 33.00 % Clg Airflow</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 1,500.00 cfm</td> <td>1,500.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </table>	<u>Cooling</u>	<u>Heating</u>	Vent Type: None	None	Vent Value: 425.00 cfm	425.00 cfm	Vent Schedule: Wyoming UV DCV		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 33.00 % Clg Airflow	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 1,500.00 cfm	1,500.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
<u>Cooling</u>	<u>Heating</u>																											
Vent Type: None	None																											
Vent Value: 425.00 cfm	425.00 cfm																											
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Aux Supply: To be calculated	To be calculated																											
Room Exhaust:																												
Rm Exh Sched: Available (100%)																												

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² -°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Pct Frc/ Loss Coef
W window	325 ft ²	270	0 Wyoming School Window	0.0612	0.90	Wyoming Windows	68	0.43	0.31	Overhang - None	None	0.00				
Misc Load 1	800.000 W		Misc - Elementary School			Electricity							100	100	0	60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 224 - CLASSROOM

Zone Description: No Zone

System Description: UV

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 500 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: Classroom # of People: 17 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 616.0 W Ballast Factor: 1.0	Cooling Heating Vent Type: None None Vent Value: 300.00 cfm 300.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY HEAPY Infil Value: 0.00 air changes/hr 0.08 cfm/sq ft of wall Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Max: 100.00 % Clg Airflow Vav Sched: Available (100%) Supply: 1,250.00 cfm 1,250.00 To be calculated Aux Supply: To be calculated To be calculated Room Exhaust: Rm Exh Sched: Available (100%)

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² ·°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass U Value Btu/h-ft ² ·°F	External Shading	Internal Shading	Adj	Pct	Pct	Pct	Rad	
												Temp/ Grnd Refl	Sen/ Cool Tmp	Rm/ Heat Tmp	Ret/ Perm Len	Frc/ Loss Coef	
W window	260 ft ²	270	0 Wyoming School Window	0.0612	0.90	Wyoming Windows	143	0.43	0.31	Overhang - None	None	0.00					
Misc Load 1	800.000 W		Misc - Elementary School			Electricity							100	100		0	60.00

Room Description: 233 - CLASSROOM

Zone Description: No Zone

System Description: UV

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 480 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: Classroom # of People: 17 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 336.0 W Ballast Factor: 1.0	Cooling Heating Vent Type: None None Vent Value: 285.00 cfm 285.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY HEAPY Infil Value: 0.00 air changes/hr 0.08 cfm/sq ft of wall Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Max: 100.00 % Clg Airflow Vav Sched: Available (100%) Supply: 1,250.00 cfm 1,250.00 To be calculated Aux Supply: To be calculated To be calculated Room Exhaust: Rm Exh Sched: Available (100%)

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² ·°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass U Value Btu/h-ft ² ·°F	External Shading	Internal Shading	Adj	Pct	Pct	Pct	Rad	
												Temp/ Grnd Refl	Sen/ Cool Tmp	Rm/ Heat Tmp	Ret/ Perm Len	Frc/ Loss Coef	
S Opening - 1	241 ft ²	180	0 Wyoming School Window	0.0612	0.90	Wyoming Windows	143	0.43	0.31	Overhang - None	None	0.00					
Misc Load 1	800.000 W		Misc - Elementary School			Electricity							100	100		0	60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 238 - CLASSROOM

Zone Description: No Zone

System Description: UV

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 526 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 15 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 112.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 270.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 1,000.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 270.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,000.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F						External Shading
E	143 ft ²	90	0	Wyoming School	0.0612	0.90										
Opening - 1				Window			Wyoming	66	0.43	0.31	Overhang - None	None	0.00			
Misc Load 1	800.000 W			Misc - Elementary School			Electricity							100	100	0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 239 - CLASSROOM

Zone Description: No Zone

System Description: UV

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 763 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 56.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 420.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 1,500.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 420.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,500.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
E	345 ft ²	90	0	Wyoming School	0.0612	0.90									
windows				Window			Wyoming Windows	71	0.43	0.31	Overhang - None	None	0.00		
window				Window			Wyoming Windows	19	0.43	0.31	Overhang - None	None	0.00		
Misc Load 1	800.000 W			Misc - Elementary School			Electricity						100	100	0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 240 - CLASSROOM

Zone Description: No Zone

System Description: UV

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 705 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 456.0 W Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;"><u>Cooling</u></td> <td style="text-align: center;"><u>Heating</u></td> </tr> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 420.00 cfm</td> <td>420.00 cfm</td> </tr> <tr> <td>Vent Schedule: Wyoming UV DCV</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 33.00 % Clg Airflow</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 1,500.00 cfm</td> <td>1,500.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </table>	<u>Cooling</u>	<u>Heating</u>	Vent Type: None	None	Vent Value: 420.00 cfm	420.00 cfm	Vent Schedule: Wyoming UV DCV		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 33.00 % Clg Airflow	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 1,500.00 cfm	1,500.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
<u>Cooling</u>	<u>Heating</u>																											
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Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall																											
Infil Schedule: Available (100%)																												
Vav Airflow: Min: 33.00 % Clg Airflow	Max: 100.00 % Clg Airflow																											
Vav Sched: Available (100%)																												
Supply: 1,500.00 cfm	1,500.00 To be calculated																											
Aux Supply: To be calculated	To be calculated																											
Room Exhaust:																												
Rm Exh Sched: Available (100%)																												

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² ·°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² ·°F	External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Pct Frc/ Loss Coef
W window	416 ft ²	270	0 Wyoming School	0.0612	0.90	Wyoming Windows	214	0.43	0.31	Overhang - None	None	0.00				
Misc Load 1	800.000 W		Misc - Elementary School			Electricity							100	100	0	60.00

Room Description: 243 - CLASSROOM

Zone Description: No Zone

System Description: UV

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 735 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 408.0 W Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;"><u>Cooling</u></td> <td style="text-align: center;"><u>Heating</u></td> </tr> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 425.00 cfm</td> <td>425.00 cfm</td> </tr> <tr> <td>Vent Schedule: Wyoming UV DCV</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 33.00 % Clg Airflow</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 1,500.00 cfm</td> <td>1,500.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </table>	<u>Cooling</u>	<u>Heating</u>	Vent Type: None	None	Vent Value: 425.00 cfm	425.00 cfm	Vent Schedule: Wyoming UV DCV		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 33.00 % Clg Airflow	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 1,500.00 cfm	1,500.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
<u>Cooling</u>	<u>Heating</u>																											
Vent Type: None	None																											
Vent Value: 425.00 cfm	425.00 cfm																											
Vent Schedule: Wyoming UV DCV																												
Infil Type: HEAPY	HEAPY																											
Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall																											
Infil Schedule: Available (100%)																												
Vav Airflow: Min: 33.00 % Clg Airflow	Max: 100.00 % Clg Airflow																											
Vav Sched: Available (100%)																												
Supply: 1,500.00 cfm	1,500.00 To be calculated																											
Aux Supply: To be calculated	To be calculated																											
Room Exhaust:																												
Rm Exh Sched: Available (100%)																												

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² ·°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² ·°F	External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Pct Frc/ Loss Coef
W window	426 ft ²	270	0 Wyoming School	0.0612	0.90	Wyoming Windows	214	0.43	0.31	Overhang - None	None	0.00				
Misc Load 1	800.000 W		Misc - Elementary School			Electricity							100	100	0	60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 245 - CLASSROOM

Zone Description: No Zone

System Description: UV

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 785 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 56.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 430.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 2,000.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 430.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 2,000.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading					
W	488 ft ²	270	0	Wyoming School Window	0.0612	0.90	Wyoming Windows	220	0.43	0.31	Overhang - None	None	0.00			
N	312 ft ²	0	0	Wyoming School	0.0612	0.90										
Misc Load 1	800.000 W			Misc - Elementary School			Electricity							100	100	0 60.00
Partition - 1	200 ft ²			0.75* Gyp Frame	0.3880									Adjacent Room: 243 - CLASSROOM		

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 246 - CLASSROOM

Zone Description: No Zone

System Description: UV

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 770 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 560.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 425.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 1,500.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 425.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,500.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading					
N windows	390 ft ²	0	0	Wyoming School Window	0.0612	0.90	Wyoming Windows	214	0.43	0.31	Overhang - None	None	0.00			
W Misc Load 1	104 ft ²	270	0	Wyoming School	0.0612	0.90	Electricity							100	100	0 60.00
Partition - 1	800.000 W			Misc - Elementary School												
	200 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 247 - CLASSROOM

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 247 - CLASSROOM

Zone Description: No Zone

System Description: UV

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 730 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 560.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 425.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 1,500.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 425.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,500.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h·ft ² ·°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h·ft ² ·°F						External Shading
N	374 ft ²	0	0	Wyoming School	0.0612	0.90										
Opening - 1				Window			Wyoming	214	0.43	0.31	Overhang - None	None	0.00			
Misc Load 1	800.000 W			Misc - Elementary School			Electricity							100	100	0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 301 - CLASSROOM

Zone Description: No Zone

System Description: UV

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 740 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 56.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 425.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 1,500.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 425.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 150.00 % Htg Airflow To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h·ft ² ·°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h·ft ² ·°F					
Roof - 1	740 ft ²	0	90	Wyoming New Roof	0.0403	0.90									
W	410 ft ²	270	0	Wyoming School	0.0612	0.90									
Opening - 1				Window			Wyoming Windows	214	0.43	0.31	Overhang - None	None			0.00
S	319 ft ²	180	0	Wyoming School	0.0612	0.90									
Misc Load 1	800.000 W			Misc - Elementary School			Electricity								100 100 0 60.00
Partition - 1	100 ft ²			0.75* Gyp Frame	0.3880										Adjacent Room: 302 - SMALL GROU
Partition - 2	100 ft ²			0.75* Gyp Frame	0.3880										Adjacent Room: 304 - CLASSROOM

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 304 - CLASSROOM

Zone Description: No Zone

System Description: UV

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 721 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 84.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 420.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 1,500.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 420.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,500.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F						External Shading
Roof - 1	721 ft ²	0	90	Wyoming New Roof	0.0403	0.90										
W	406 ft ²	270	0	Wyoming School	0.0612	0.90										
Opening - 1				Window			Wyoming	214	0.43	0.31	Overhang - None	None	0.00			
Misc Load 1	800.000 W			Misc - Elementary School			Electricity							100	100	0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 306 - CLASSROOM

Zone Description: No Zone

System Description: UV

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 780 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 84.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 430.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 2,000.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 430.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 2,000.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h·ft ² ·°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h·ft ² ·°F					
Roof - 1	780 ft ²	0	90	Wyoming New Roof	0.0403	0.90									
N	332 ft ²	0	0	Wyoming School	0.0612	0.90									
W	491 ft ²	270	0	Wyoming School	0.0612	0.90									
Opening - 1				Window			Wyoming Windows	224	0.43	0.31	Overhang - None	None	0.00		
Misc Load 1	800.000 W			Misc - Elementary School			Electricity						100	100	0 60.00
Partition - 1	200 ft ²			0.75* Gyp Frame	0.3880								Adjacent Room: 304 - CLASSROOM		
Partition - 2	200 ft ²			0.75* Gyp Frame	0.3880								Adjacent Room: 305 - SMALL GROU		

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 307 - CLASSROOM

Zone Description: No Zone

System Description: UV

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 729 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 168.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 425.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 1,500.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 425.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,500.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
Roof - 1	729 ft ²	0	90	Wyoming New Roof	0.0403	0.90									
N	390 ft ²	0	0	Wyoming School	0.0612	0.90									
Opening - 1				Window			Wyoming Windows	214	0.43	0.31	Overhang - None	None	0.00		
W	104 ft ²	270	0	Wyoming School	0.0612	0.90									
Misc Load 1	800.000 W			Misc - Elementary School			Electricity						100	100	0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 310 - CLASSROOM

Zone Description: No Zone

System Description: UV

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 751 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 504.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 425.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 1,500.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 425.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,500.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
Roof - 1	751 ft ²	0	90	Wyoming New Roof	0.0403	0.90									
N	397 ft ²	0	0	Wyoming School	0.0612	0.90									
Opening - 1				Window			Wyoming	214	0.43	0.31	Overhang - None	None	0.00		
Misc Load 1	800.000 W			Misc - Elementary School			Electricity						100	100	0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 313 - CLASSROOM

Zone Description: No Zone

System Description: UV

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 611 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 56.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 365.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 1,250.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 365.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,250.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
Roof - 1	611 ft ²	0	90	Wyoming New Roof	0.0403	0.90									
N	397 ft ²	0	0	Wyoming School	0.0612	0.90									
Opening - 1				Window			Wyoming Windows	108	0.43	0.31	Overhang - None	None	0.00		
Misc Load 1	800.000 W			Misc - Elementary School			Electricity						100	100	0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 319 - CLASSROOM

Zone Description: No Zone

System Description: UV

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 722 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 168.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 425.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 1,500.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 425.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,500.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F						External Shading
Roof - 1	722 ft ²	0	90	Wyoming New Roof	0.0403	0.90										
N windows	419 ft ²	0	0	Wyoming School Window	0.0612	0.90	Wyoming Windows	214	0.43	0.31	Overhang - None	None	0.00			
Misc Load 1	800.000 W			Misc - Elementary School			Electricity						100	100	0	60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 321 - CLASSROOM

Zone Description: No Zone

System Description: UV

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 743 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 56.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 425.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 1,500.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 425.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,500.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
Roof - 1	743 ft ²	0	90	Wyoming New Roof	0.0403	0.90									
E	78 ft ²	90	0	Wyoming School	0.0612	0.90									
N	423 ft ²	0	0	Wyoming School	0.0612	0.90									
Opening - 1				Window			Wyoming Windows	214	0.43	0.31	Overhang - None	None	0.00		
Misc Load 1	800.000 W			Misc - Elementary School			Electricity						100	100	0 60.00
Partition - 1	150 ft ²			0.75* Gyp Frame	0.3880								Adjacent Room: 323 - SMALL GROU		
Partition - 2	150 ft ²			0.75* Gyp Frame	0.3880								Adjacent Room: 324 - CLASSROOM		

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 322 - CLASSROOM

Zone Description: No Zone

System Description: UV

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 791 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 168.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 430.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 2,000.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 430.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 2,000.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
Roof - 1	791 ft ²	0	90	Wyoming New Roof	0.0403	0.90									
E Opening - 1	481 ft ²	90	0	Wyoming School Window	0.0612	0.90	Wyoming Windows	219	0.43	0.31	Overhang - None	None	0.00		
N	319 ft ²	0	0	Wyoming School	0.0612	0.90									
Misc Load 1	800.000 W			Misc - Elementary School			Electricity						100	100	0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 324 - CLASSROOM

Zone Description: No Zone

System Description: UV

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 740 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 252.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 425.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 1,500.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 425.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,500.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F						External Shading
Roof - 1	740 ft ²	0	90	Wyoming New Roof	0.0403	0.90										
E	426 ft ²	90	0	Wyoming School	0.0612	0.90										
Opening - 1				Window			Wyoming	164	0.43	0.31	Overhang - None	None	0.00			
Misc Load 1	800.000 W			Misc - Elementary School			Electricity							100	100	0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 326 - CLASSROOM

Zone Description: No Zone

System Description: UV

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 753 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 224.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 425.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 1,500.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 425.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,500.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
Roof - 1	753 ft ²	0	90	Wyoming New Roof	0.0403	0.90									
E windows	426 ft ²	90	0	Wyoming School Window	0.0612	0.90	Wyoming Windows	214	0.43	0.31	Overhang - None	None	0.00		
Misc Load 1	800.000 W			Misc - Elementary School			Electricity						100	100	0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 327 - CLASSROOM

Zone Description: No Zone

System Description: UV

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 1,138 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 336.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 485.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 1,500.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 485.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 150.00 % Htg Airflow To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading					
Roof - 1	1,138 ft ²	0	90	Wyoming New Roof	0.0403	0.90										
W	507 ft ²	270	0	Wyoming School	0.0612	0.90										
Opening - 1				Window			Wyoming Windows	143	0.43	0.31	Overhang - None	None	0.00			
S	299 ft ²	180	0	Wyoming School	0.0612	0.90										
Misc Load 1	800.000 W			Misc - Elementary School			Electricity							100	100	0 60.00
Partition - 1	100 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 329 - OFFICE
Partition - 2	100 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 330 - STORAGE

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 336 - CLASSROOM

Zone Description: No Zone

System Description: UV

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 504 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 756.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 335.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 1,250.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 335.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,250.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F						External Shading
Roof - 1	504 ft ²	0	90	Wyoming New Roof	0.0403	0.90										
S	260 ft ²	180	0	Wyoming School	0.0612	0.90										
Opening - 1				Window			Wyoming Windows	143	0.43	0.31	Overhang - None	None	0.00			
Misc Load 1	800.000 W			Misc - Elementary School			Electricity						100	100	0	60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 341 - CLASSROOM

Zone Description: No Zone

System Description: UV

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 459 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 252.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 335.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 1,250.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 335.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,250.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
Roof - 1	459 ft ²	0	90	Wyoming New Roof	0.0403	0.90									
S	273 ft ²	180	0	Wyoming School	0.0612	0.90									
Opening - 1				Window			Wyoming Windows	138	0.43	0.31	Overhang - None	None	0.00		
Misc Load 1	800.000 W			Misc - Elementary School			Electricity						100	100	0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 350 - CLASSROOM

Zone Description: No Zone

System Description: UV

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 960 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 520.0 W Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 460.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 33.00 % Clg Airflow Vav Sched: Available (100%) Supply: 1,500.00 cfm Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 460.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,500.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F						External Shading
Roof - 1	960 ft ²	0	90	Wyoming New Roof	0.0403	0.90										
E windows	455 ft ²	90	0	Wyoming School Window	0.0612	0.90	Wyoming Windows	149	0.43	0.31	Overhang - None	None	0.00			
Misc Load 1	800.000 W			Misc - Elementary School			Electricity							100	100	0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 1023 - STAIR B

Zone Description: No Zone

System Description: HEATING ONLY

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 429 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.6 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 0.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 0.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 240.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading					
E	195 ft ²	90	0	90.1-07 5a	0.0640	0.90										
Opening - 1				Window			90.1-07 4a Window	38	0.46	0.55	Overhang - None	None	0.00			
S	215 ft ²	180	0	90.1-07 5a	0.0640	0.90										
Opening - 1				Window			90.1-07 4a Window	34	0.46	0.55	Overhang - None	None	0.00			
N	65 ft ²	0	0	90.1-07 5a	0.0640	0.90										
Opening - 1				Window			90.1-07 4a Window	17	0.46	0.55	Overhang - None	None	0.00			
Floor - 1																37 0.73

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 1035 - STORAGE

Zone Description: No Zone

System Description: HEATING ONLY

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 81 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.8 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 0.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 0.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 0.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 200.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F						External Shading
Roof - 1	81 ft ²	0	90	90.1-07 Zone 4a/5a roof	0.0480	0.90										
S Opening - 1	130 ft ²	180	0	90.1-07 5a Window	0.0640	0.90	90.1-07 4a Window	21	0.46	0.55	Overhang - None	None	0.00			
E Opening - 1	104 ft ²	90	0	90.1-07 5a Window	0.0640	0.90	90.1-07 4a Window	20	0.46	0.55	Overhang - None	None	0.00			
Floor - 1																18 0.73

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 110 - STAIR

Zone Description: No Zone

System Description: HEATING ONLY

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 195 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.6 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 0.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating Vent Type: None Vent Value: 0.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.08 cfm/sq ft of wall Infil Schedule: Available (100%) Vav Airflow: Min: 100.00 % Clg Airflow Vav Sched: Available (100%) Supply: To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
N	473 ft ²	0	0	Wyoming Existing	0.1059	0.90									
Opening - 1				Window			90.1-07 4a Window	121	0.46	0.55	Overhang - None	None	0.00		
Partition - 1	200 ft ²			0.75* Gyp Frame	0.3880										
Floor - 1															

Adjacent Room: 107 - ART CLASSRC
11 0.73

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 125 - STAIR

Zone Description: No Zone

System Description: HEATING ONLY

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 413 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.6 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"><u>Cooling</u></td> <td style="width: 50%; border: none;"><u>Heating</u></td> </tr> <tr> <td style="border: none;">Vent Type: None</td> <td style="border: none;">None</td> </tr> <tr> <td style="border: none;">Vent Value: 0.00 cfm</td> <td style="border: none;">0.00 cfm</td> </tr> <tr> <td style="border: none;">Vent Schedule: Available (100%)</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Infil Type: HEAPY</td> <td style="border: none;">HEAPY</td> </tr> <tr> <td style="border: none;">Infil Value: 0.00 air changes/hr</td> <td style="border: none;">0.08 cfm/sq ft of wall</td> </tr> <tr> <td style="border: none;">Infil Schedule: Available (100%)</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Vav Airflow: Min: 0.40 cfm/sq ft</td> <td style="border: none;">Max: 100.00 % Clg Airflow</td> </tr> <tr> <td style="border: none;">Vav Sched: Available (100%)</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Supply: To be calculated</td> <td style="border: none;">200.00 % Htg Airflow</td> </tr> <tr> <td style="border: none;">Aux Supply: To be calculated</td> <td style="border: none;">To be calculated</td> </tr> <tr> <td style="border: none;">Room Exhaust:</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Rm Exh Sched: Available (100%)</td> <td style="border: none;"></td> </tr> </table>	<u>Cooling</u>	<u>Heating</u>	Vent Type: None	None	Vent Value: 0.00 cfm	0.00 cfm	Vent Schedule: Available (100%)		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: To be calculated	200.00 % Htg Airflow	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
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Room Exhaust:																												
Rm Exh Sched: Available (100%)																												

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² ·°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass		External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
									U Value Btu/h-ft ² ·°F	External Shading							
E Opening - 1 Floor - 1	169 ft ²	90	0 Wyoming Existing Window	0.1059	0.90	90.1-07 4a Window	33	0.46	0.55	Overhang - None	None	0.00					13 0.73

Room Description: 127 - STAIR

Zone Description: No Zone

System Description: HEATING ONLY

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 136 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.6 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"><u>Cooling</u></td> <td style="width: 50%; border: none;"><u>Heating</u></td> </tr> <tr> <td style="border: none;">Vent Type: None</td> <td style="border: none;">None</td> </tr> <tr> <td style="border: none;">Vent Value: 0.00 cfm</td> <td style="border: none;">0.00 cfm</td> </tr> <tr> <td style="border: none;">Vent Schedule: Available (100%)</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Infil Type: HEAPY</td> <td style="border: none;">HEAPY</td> </tr> <tr> <td style="border: none;">Infil Value: 0.00 air changes/hr</td> <td style="border: none;">0.08 cfm/sq ft of wall</td> </tr> <tr> <td style="border: none;">Infil Schedule: Available (100%)</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Vav Airflow: Min: 0.40 cfm/sq ft</td> <td style="border: none;">Max: 100.00 % Clg Airflow</td> </tr> <tr> <td style="border: none;">Vav Sched: Available (100%)</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Supply: To be calculated</td> <td style="border: none;">200.00 % Htg Airflow</td> </tr> <tr> <td style="border: none;">Aux Supply: To be calculated</td> <td style="border: none;">To be calculated</td> </tr> <tr> <td style="border: none;">Room Exhaust:</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Rm Exh Sched: Available (100%)</td> <td style="border: none;"></td> </tr> </table>	<u>Cooling</u>	<u>Heating</u>	Vent Type: None	None	Vent Value: 0.00 cfm	0.00 cfm	Vent Schedule: Available (100%)		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: To be calculated	200.00 % Htg Airflow	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
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Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² ·°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass		External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
									U Value Btu/h-ft ² ·°F	External Shading							
E Opening - 1 Floor - 1	221 ft ²	90	0 Wyoming Existing Window	0.1059	0.90	90.1-07 4a Window	44	0.46	0.55	Overhang - None	None	0.00					17 0.73

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 128 - CORRIDOR

Zone Description: No Zone

System Description: HEATING ONLY

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 128 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.5 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <th style="text-align: center;">Cooling</th> <th style="text-align: center;">Heating</th> </tr> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 0.00 cfm</td> <td>0.00 cfm</td> </tr> <tr> <td>Vent Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 0.40 cfm/sq ft</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: To be calculated</td> <td>200.00 % Htg Airflow</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </table>	Cooling	Heating	Vent Type: None	None	Vent Value: 0.00 cfm	0.00 cfm	Vent Schedule: Available (100%)		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: To be calculated	200.00 % Htg Airflow	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
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Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² ·°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass U Value Btu/h-ft ² ·°F	External Shading	Internal Shading	Adj	Pct	Pct	Pct	Rad	
												Temp/ Grnd Refl	Sen/ Cool Tmp	Rm/ Heat Tmp	Ret/ Perm Len	Frc/ Loss Coef	
E Opening - 1 Floor - 1	78 ft ²	90	0 Wyoming Existing Window	0.1059	0.90	90.1-07 4a Window	15	0.46	0.55	Overhang - None	None	0.00					6 0.73

Room Description: 129 - STORAGE

Zone Description: No Zone

System Description: HEATING ONLY

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 442 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.8 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <th style="text-align: center;">Cooling</th> <th style="text-align: center;">Heating</th> </tr> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 0.00 cfm</td> <td>0.00 cfm</td> </tr> <tr> <td>Vent Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 0.40 cfm/sq ft</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </table>	Cooling	Heating	Vent Type: None	None	Vent Value: 0.00 cfm	0.00 cfm	Vent Schedule: Available (100%)		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: To be calculated	To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
Cooling	Heating																											
Vent Type: None	None																											
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Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² ·°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass U Value Btu/h-ft ² ·°F	External Shading	Internal Shading	Adj	Pct	Pct	Pct	Rad
												Temp/ Grnd Refl	Sen/ Cool Tmp	Rm/ Heat Tmp	Ret/ Perm Len	Frc/ Loss Coef

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 132 - ELEC

Zone Description: No Zone

System Description: HEATING ONLY

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 112 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 85.0 °F / 88.0 °F Design Htg DB / Drift Point: 55.0 °F / 55.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Room Floor Multiplier: 1 Humidistat Location: None Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.5 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 0.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 0.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h·ft ² ·°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef		
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h·ft ² ·°F						External Shading	Internal Shading
W Opening - 1 Floor - 1	182 ft ²	270	0	Wyoming Existing Window	0.1059	0.90	90.1-07 4a Window	50	0.46	0.55	Overhang - None	None	0.00			14	0.73

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 133 - STAIR

Zone Description: No Zone

System Description: HEATING ONLY

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 76 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.6 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 0.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 0.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 200.00 % Htg Airflow To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading					
W	130 ft ²	270	0	Wyoming Existing	0.1059	0.90										
Opening - 1				Window			90.1-07 4a Window	36	0.46	0.55	Overhang - None	None	0.00			
Partition - 1	100 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 134 - DRESSING RC
Partition - 2	100 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 131 - ELEC
Partition - 3	100 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 1004 - CORRIDOR
Floor - 1																10 0.73

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 137 - STAIR

Zone Description: No Zone

System Description: HEATING ONLY

<u>GENERAL INFORMATION</u>	<u>PEOPLE</u>	<u>AIRFLOW INFORMATION</u>																										
Floor Area: 408 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.6 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;"><u>Cooling</u></td> <td style="width: 50%;"><u>Heating</u></td> </tr> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 0.00 cfm</td> <td>0.00 cfm</td> </tr> <tr> <td>Vent Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 0.40 cfm/sq ft</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: To be calculated</td> <td>200.00 % Htg Airflow</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </table>	<u>Cooling</u>	<u>Heating</u>	Vent Type: None	None	Vent Value: 0.00 cfm	0.00 cfm	Vent Schedule: Available (100%)		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: To be calculated	200.00 % Htg Airflow	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
<u>Cooling</u>	<u>Heating</u>																											
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Vent Value: 0.00 cfm	0.00 cfm																											
Vent Schedule: Available (100%)																												
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Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall																											
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Supply: To be calculated	200.00 % Htg Airflow																											
Aux Supply: To be calculated	To be calculated																											
Room Exhaust:																												
Rm Exh Sched: Available (100%)																												

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² ·°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass U Value Btu/h-ft ² ·°F	External Shading	Internal Shading	Adj	Pct	Pct	Pct	Rad	
												Temp/ Grnd Refl	Sen/ Cool Tmp	Rm/ Heat Tmp	Ret/ Perm Len	Frc/ Loss Coef	
W Opening - 1 Floor - 1	189 ft ²	270	0 Wyoming Existing Window	0.1059	0.90	90.1-07 4a Window	52	0.46	0.55	Overhang - None	None	0.00					15 0.73

Room Description: 163 - STAIR

Zone Description: No Zone

System Description: HEATING ONLY

<u>GENERAL INFORMATION</u>	<u>PEOPLE</u>	<u>AIRFLOW INFORMATION</u>																										
Floor Area: 170 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.6 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;"><u>Cooling</u></td> <td style="width: 50%;"><u>Heating</u></td> </tr> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 0.00 cfm</td> <td>0.00 cfm</td> </tr> <tr> <td>Vent Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 0.40 cfm/sq ft</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: To be calculated</td> <td>225.00 % Htg Airflow</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </table>	<u>Cooling</u>	<u>Heating</u>	Vent Type: None	None	Vent Value: 0.00 cfm	0.00 cfm	Vent Schedule: Available (100%)		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: To be calculated	225.00 % Htg Airflow	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
<u>Cooling</u>	<u>Heating</u>																											
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Room Exhaust:																												
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Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² ·°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass U Value Btu/h-ft ² ·°F	External Shading	Internal Shading	Adj	Pct	Pct	Pct	Rad	
												Temp/ Grnd Refl	Sen/ Cool Tmp	Rm/ Heat Tmp	Ret/ Perm Len	Frc/ Loss Coef	
N Opening - 1 Floor - 1	473 ft ²	0	0 Wyoming Existing Window	0.1059	0.90	90.1-07 4a Window	121	0.46	0.55	Overhang - None	None	0.00					11 0.73

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 2005A - STAIR B

Zone Description: No Zone

System Description: HEATING ONLY

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 429 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.6 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 0.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 0.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h·ft ² ·°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h·ft ² ·°F	External Shading					
E	195 ft ²	90	0	90.1-07 5a	0.0640	0.90										
Opening - 1				Window			90.1-07 4a Window	38	0.46	0.55	Overhang - None	None	0.00			
S	215 ft ²	180	0	90.1-07 5a	0.0640	0.90										
Opening - 1				Window			90.1-07 4a Window	34	0.46	0.55	Overhang - None	None	0.00			
N	65 ft ²	0	0	90.1-07 5a	0.0640	0.90										
Opening - 1				Window			90.1-07 4a Window	17	0.46	0.55	Overhang - None	None	0.00			

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 231 - STORAGE

Zone Description: No Zone

System Description: HEATING ONLY

<u>GENERAL INFORMATION</u>	<u>PEOPLE</u>	<u>AIRFLOW INFORMATION</u>																										
Floor Area: 79 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.8 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;"><u>Cooling</u></td> <td style="width: 50%;"><u>Heating</u></td> </tr> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 0.00 cfm</td> <td>0.00 cfm</td> </tr> <tr> <td>Vent Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 0.40 cfm/sq ft</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: To be calculated</td> <td>225.00 % Htg Airflow</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </table>	<u>Cooling</u>	<u>Heating</u>	Vent Type: None	None	Vent Value: 0.00 cfm	0.00 cfm	Vent Schedule: Available (100%)		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: To be calculated	225.00 % Htg Airflow	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
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Aux Supply: To be calculated	To be calculated																											
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Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h·ft ² ·°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass		External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
									U Value Btu/h·ft ² ·°F	Internal Shading							
E Opening - 1	130 ft ²	90	0 Wyoming Existing Window	0.1059	0.90	90.1-07 4a Window	26	0.46	0.55	Overhang - None	None	0.00					

Room Description: 232 - STORAGE

Zone Description: No Zone

System Description: HEATING ONLY

<u>GENERAL INFORMATION</u>	<u>PEOPLE</u>	<u>AIRFLOW INFORMATION</u>																										
Floor Area: 79 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.8 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;"><u>Cooling</u></td> <td style="width: 50%;"><u>Heating</u></td> </tr> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 0.00 cfm</td> <td>0.00 cfm</td> </tr> <tr> <td>Vent Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 0.40 cfm/sq ft</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: To be calculated</td> <td>200.00 % Htg Airflow</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </table>	<u>Cooling</u>	<u>Heating</u>	Vent Type: None	None	Vent Value: 0.00 cfm	0.00 cfm	Vent Schedule: Available (100%)		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: To be calculated	200.00 % Htg Airflow	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
<u>Cooling</u>	<u>Heating</u>																											
Vent Type: None	None																											
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Aux Supply: To be calculated	To be calculated																											
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Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h·ft ² ·°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass		External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
									U Value Btu/h·ft ² ·°F	Internal Shading							
W Opening - 1	130 ft ²	180	0 Wyoming Existing Window	0.1059	0.90	90.1-07 4a Window	36	0.46	0.55	Overhang - None	None	0.00					

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 1022 - ELEV MACH

Zone Description: No Zone

System Description: System 3

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 50 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.5 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 0.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 400.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 0.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow To be calculated To be calculated

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h·ft ² ·°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass		External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
									U Value Btu/h·ft ² ·°F	U Value Btu/h·ft ² ·°F								
Misc Load 1	500.000 W		Misc - Elementary School			Electricity									100	100	0	60.00

Room Description: 106 - IT CLOSET

Zone Description: No Zone

System Description: System 3

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 112 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8* LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.5 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 0.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 335.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 0.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow To be calculated To be calculated

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h·ft ² ·°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass		External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
									U Value Btu/h·ft ² ·°F	U Value Btu/h·ft ² ·°F								
Misc Load 1	500.000 W		Misc - Elementary School			None									100	100	0	60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 148 - ELEV MACH

Zone Description: No Zone

System Description: System 3

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 44 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.5 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 0.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 150.00 % Clg Airflow Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating Vent Type: None Vent Value: 0.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 125.00 % Htg Airflow To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading					
E	78 ft ²	90	0	Wyoming Existing Window	0.1059	0.90	90.1-07 4a Window	15	0.46	0.55	Overhang - None	None	0.00			
S	91 ft ²	180	0	Wyoming Existing Window	0.1059	0.90	90.1-07 4a Window	15	0.46	0.55	Overhang - None	None	0.00			
Misc Load 1	500.000 W			Misc - Elementary School			Electricity							100	100	0 60.00
Floor - 1																13 0.73

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 227A - IT CLOSET

Zone Description: No Zone

System Description: System 3

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 56 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: General Office Space # of People: 143 sq ft/person People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.5 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 0.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 335.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 0.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow To be calculated To be calculated

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h·ft ² ·°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass		External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
									U Value Btu/h·ft ² ·°F	U Value Btu/h·ft ² ·°F								
Misc Load 1	300.000 W		Misc - Elementary School			Electricity									100	100	0	60.00

Room Description: 355 - IT CLOSET

Zone Description: No Zone

System Description: System 3

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 40 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: General Office Space # of People: 143 sq ft/person People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.5 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 0.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 335.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 0.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow To be calculated To be calculated

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h·ft ² ·°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass		External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
									U Value Btu/h·ft ² ·°F	U Value Btu/h·ft ² ·°F								
Misc Load 1	300.000 W		Misc - Elementary School			Electricity									100	100	0	60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 1001 - VESTIBULE

Zone Description: 1-01

System Description: System 5 Flr 1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 271 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.3 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 0.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 640.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 0.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading					
W	345 ft ²	270	0	90.1-07 5a	0.0640	0.90										
Opening - 1				Window			90.1-07 4a Window	94	0.46	0.55	Overhang - None	None	0.00			
N	26 ft ²	0	0	90.1-07 5a	0.0640	0.90										
Opening - 1				Window			90.1-07 4a Window	7	0.46	0.55	Overhang - None	None	0.00			
S	26 ft ²	180	0	90.1-07 5a	0.0640	0.90										
Opening - 1				Window			90.1-07 4a Window	4	0.46	0.55	Overhang - None	None	0.00			
Floor - 1																31 0.73

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 1009 - CORRIDOR

Zone Description: 1-02

System Description: System 5 Flr 1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 1,135 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.5 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 88.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 350.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 88.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 350.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading					
E	104 ft ²	90	0	90.1-07 5a	0.0640	0.90										
Opening - 1				Window			90.1-07 4a Window	20	0.46	0.55	Overhang - None	None	0.00			
W	104 ft ²	270	0	90.1-07 5a	0.0640	0.90										
Opening - 1				Window			90.1-07 4a Window	28	0.46	0.55	Overhang - None	None	0.00			
Floor - 1																16 0.73

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 1005 - STUDENT DINING

Zone Description: 1-03

System Description: System 5 Flr 1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 3,556 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: Cafeteria # of People: 324 People People Sensible: 275 Btu/h People Latent : 275 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.9 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"><u>Cooling</u></td> <td style="width: 50%; border: none;"><u>Heating</u></td> </tr> <tr> <td style="border: none;">Vent Type: None</td> <td style="border: none;">None</td> </tr> <tr> <td style="border: none;">Vent Value: 2,293.00 cfm</td> <td style="border: none;">2,293.00 cfm</td> </tr> <tr> <td style="border: none;">Vent Schedule: Available (100%)</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Infil Type: HEAPY</td> <td style="border: none;">HEAPY</td> </tr> <tr> <td style="border: none;">Infil Value: 0.00 air changes/hr</td> <td style="border: none;">0.08 cfm/sq ft of wall</td> </tr> <tr> <td style="border: none;">Infil Schedule: Available (100%)</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Vav Airflow: Min: 0.40 cfm/sq ft</td> <td style="border: none;">Max: 100.00 % Clg Airflow</td> </tr> <tr> <td style="border: none;">Vav Sched: Available (100%)</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Supply: 6,480.00 To be calculated</td> <td style="border: none;">6,480.00 To be calculated</td> </tr> <tr> <td style="border: none;">Aux Supply: To be calculated</td> <td style="border: none;">To be calculated</td> </tr> <tr> <td style="border: none;">Room Exhaust:</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Rm Exh Sched: Available (100%)</td> <td style="border: none;"></td> </tr> </table>	<u>Cooling</u>	<u>Heating</u>	Vent Type: None	None	Vent Value: 2,293.00 cfm	2,293.00 cfm	Vent Schedule: Available (100%)		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 6,480.00 To be calculated	6,480.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
<u>Cooling</u>	<u>Heating</u>																											
Vent Type: None	None																											
Vent Value: 2,293.00 cfm	2,293.00 cfm																											
Vent Schedule: Available (100%)																												
Infil Type: HEAPY	HEAPY																											
Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall																											
Infil Schedule: Available (100%)																												
Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow																											
Vav Sched: Available (100%)																												
Supply: 6,480.00 To be calculated	6,480.00 To be calculated																											
Aux Supply: To be calculated	To be calculated																											
Room Exhaust:																												
Rm Exh Sched: Available (100%)																												

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² ·°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass		External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
									U Value Btu/h-ft ² ·°F	U Value Btu/h-ft ² ·°F							
W	507 ft ²	270	0 90.1-07 5a	0.0640	0.90												
Opening - 1			Window			90.1-07 4a Window	139	0.46	0.55	Overhang - None	None	0.00					
Misc Load 1	155.000 W		Misc - Elementary School			Electricity								100	100	0	60.00
Floor - 1																	39 0.73

Room Description: 1006 - ELEC RM

Zone Description: 1-04

System Description: System 5 Flr 1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 227 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.5 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"><u>Cooling</u></td> <td style="width: 50%; border: none;"><u>Heating</u></td> </tr> <tr> <td style="border: none;">Vent Type: None</td> <td style="border: none;">None</td> </tr> <tr> <td style="border: none;">Vent Value: 0.00 cfm</td> <td style="border: none;">0.00 cfm</td> </tr> <tr> <td style="border: none;">Vent Schedule: Available (100%)</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Infil Type: HEAPY</td> <td style="border: none;">HEAPY</td> </tr> <tr> <td style="border: none;">Infil Value: 0.00 air changes/hr</td> <td style="border: none;">0.08 cfm/sq ft of wall</td> </tr> <tr> <td style="border: none;">Infil Schedule: Available (100%)</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Vav Airflow: Min: 0.40 cfm/sq ft</td> <td style="border: none;">Max: 100.00 % Clg Airflow</td> </tr> <tr> <td style="border: none;">Vav Sched: Available (100%)</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Supply: 50.00 To be calculated</td> <td style="border: none;">50.00 To be calculated</td> </tr> <tr> <td style="border: none;">Aux Supply: To be calculated</td> <td style="border: none;">To be calculated</td> </tr> <tr> <td style="border: none;">Room Exhaust:</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Rm Exh Sched: Available (100%)</td> <td style="border: none;"></td> </tr> </table>	<u>Cooling</u>	<u>Heating</u>	Vent Type: None	None	Vent Value: 0.00 cfm	0.00 cfm	Vent Schedule: Available (100%)		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 50.00 To be calculated	50.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
<u>Cooling</u>	<u>Heating</u>																											
Vent Type: None	None																											
Vent Value: 0.00 cfm	0.00 cfm																											
Vent Schedule: Available (100%)																												
Infil Type: HEAPY	HEAPY																											
Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall																											
Infil Schedule: Available (100%)																												
Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow																											
Vav Sched: Available (100%)																												
Supply: 50.00 To be calculated	50.00 To be calculated																											
Aux Supply: To be calculated	To be calculated																											
Room Exhaust:																												
Rm Exh Sched: Available (100%)																												

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² ·°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass		External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
									U Value Btu/h-ft ² ·°F	U Value Btu/h-ft ² ·°F							

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 1031 - CORRIDOR

Zone Description: 1-05

System Description: System 5 Flr 1

GENERAL INFORMATION					PEOPLE			AIRFLOW INFORMATION						
Floor Area: 893 ft ²	Flr-Flr Height: 14.1 ft	Plenum Height: 1.1 ft	Height Above Flr:		People Type: None			<u>Cooling</u>		<u>Heating</u>				
Slab Cnstr Type: 90.1 Zone 4a/5a Slab		Room Mass: Time delay based on actual mass			# of People: 0 sq ft/person			Vent Type: None		None				
Ceiling R-Value: 1.786 hr-ft ² -°F/Btu		Is there Carpet?: YES			People Sensible: 250 Btu/h			Vent Value: 70.00 cfm		70.00 cfm				
Design Clg DB / Drift Point: 75.0 °F / 81.0 °F					People Latent : 250 Btu/h			Vent Schedule: Available (100%)						
Design Htg DB / Drift Point: 72.0 °F / 66.0 °F					People Schedule: People - Elem Classroom non-summer			Infil Type: HEAPY		HEAPY				
Design Relative Humidity: 50 %					Workstation: 1.0 workstation/person			Infil Value: 0.00 air changes/hr		0.08 cfm/sq ft of wall				
Moisture Capacitance: Medium								Infil Schedule: Available (100%)						
Clg Tstat: None								Vav Airflow: Min: 0.40 cfm/sq ft		Max: 100.00 % Clg Airflow				
Htg Tstat: None								Vav Sched: Available (100%)						
Thermostat Location:Zone	Floor Multiplier: 1							Supply: 250.00 To be calculated		250.00 To be calculated				
Humidistat Location:Room	Room Multiplier: 1							Aux Supply: To be calculated		To be calculated				
CO2 Sensor Location:None								Room Exhaust:						
Room Type:Conditioned								Rm Exh Sched: Available (100%)						

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
						Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading						Internal Shading
Roof - 1	893 ft ²	0	90 90.1-07 Zone 4a/5a roof	0.0480	0.90		0									
									Overhang - None	None						

Room Description: 1036 - VESTIBULE

Zone Description: 1-06

System Description: System 5 Flr 1

GENERAL INFORMATION					PEOPLE			AIRFLOW INFORMATION						
Floor Area: 187 ft ²	Flr-Flr Height: 14.1 ft	Plenum Height: 1.1 ft	Height Above Flr:		People Type: None			<u>Cooling</u>		<u>Heating</u>				
Slab Cnstr Type: 90.1 Zone 4a/5a Slab		Room Mass: Time delay based on actual mass			# of People: 0 sq ft/person			Vent Type: None		None				
Ceiling R-Value: 1.786 hr-ft ² -°F/Btu		Is there Carpet?: YES			People Sensible: 250 Btu/h			Vent Value: 0.00 cfm		0.00 cfm				
Design Clg DB / Drift Point: 75.0 °F / 81.0 °F					People Latent : 250 Btu/h			Vent Schedule: Available (100%)						
Design Htg DB / Drift Point: 72.0 °F / 66.0 °F					People Schedule: People - Elem Classroom non-summer			Infil Type: HEAPY		HEAPY				
Design Relative Humidity: 50 %					Workstation: 1.0 workstation/person			Infil Value: 0.00 air changes/hr		0.08 cfm/sq ft of wall				
Moisture Capacitance: Medium								Infil Schedule: Available (100%)						
Clg Tstat: None								Vav Airflow: Min: 0.40 cfm/sq ft		Max: 100.00 % Clg Airflow				
Htg Tstat: None								Vav Sched: Available (100%)						
Thermostat Location:Zone	Floor Multiplier: 1							Supply: 330.00 To be calculated		330.00 To be calculated				
Humidistat Location:Room	Room Multiplier: 1							Aux Supply: To be calculated		To be calculated				
CO2 Sensor Location:None								Room Exhaust:						
Room Type:Conditioned								Rm Exh Sched: Available (100%)						

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
						Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading						Internal Shading
S	130 ft ²	180	0 90.1-07 5a	0.0640	0.90											
Opening - 1			Window				21	0.46	0.55	Overhang - None	None	0.00				
Floor - 1																10 0.73

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 1037 - CORRIDOR

Zone Description: 1-06

System Description: System 5 Flr 1

<u>GENERAL INFORMATION</u>	<u>PEOPLE</u>	<u>AIRFLOW INFORMATION</u>
Floor Area: 306 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person <u>LIGHTS</u> Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.5 W/sq ft Ballast Factor: 1.0	<u>Cooling</u> Vent Type: None Vent Value: 24.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 100.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		<u>Heating</u> None 24.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 100.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² ·°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass		External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
									U Value Btu/h-ft ² ·°F	Internal Shading							
Roof - 1	306 ft ²	0	90 90.1-07 Zone 4a/5a roof	0.0480	0.90		0				Overhang - None	None					

Room Description: 1038 - TLT

Zone Description: 1-06

System Description: System 5 Flr 1

<u>GENERAL INFORMATION</u>	<u>PEOPLE</u>	<u>AIRFLOW INFORMATION</u>
Floor Area: 44 ft ² Flr-Flr Height: 10.0 ft Plenum Height: 2.0 ft Height Above Flr: Slab Cnstr Type: 4* LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person <u>LIGHTS</u> Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.9 W/sq ft Ballast Factor: 1.0	<u>Cooling</u> Vent Type: None Vent Value: 0.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 0.00 To be calculated Aux Supply: To be calculated Room Exhaust: 70.00 cfm Rm Exh Sched: Wyoming General
		<u>Heating</u> None 0.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 0.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² ·°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass		External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
									U Value Btu/h-ft ² ·°F	Internal Shading							
Roof - 1	44 ft ²	0	90 90.1-07 Zone 4a/5a roof	0.0480	0.90		0				Overhang - None	None					

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 1033 - WORKROOM

Zone Description: 1-07

System Description: System 5 Flr 1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 570 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: General Office Space # of People: 143 sq ft/person People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.1 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 0.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 570.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 0.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 570.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F						External Shading
Roof - 1	570 ft ²	0	90	90.1-07 Zone 4a/5a roof	0.0480	0.90										
S	241 ft ²	180	0	90.1-07 5a	0.0640	0.90										
Opening - 1				Window			90.1-07 4a Window	38	0.46	0.55	Overhang - None	None	0.00			
Misc Load 1	2,600.000 W			Misc - Elementary School			Electricity						100	100	0	60.00
Floor - 1															19	0.73

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 1034 - OFFICE

Zone Description: 1-07

System Description: System 5 Flr 1

<u>GENERAL INFORMATION</u>	<u>PEOPLE</u>	<u>AIRFLOW INFORMATION</u>																										
Floor Area: 140 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: General Office Space # of People: 143 sq ft/person People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.1 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%; text-align: center;"><u>Cooling</u></th> <th style="width: 50%; text-align: center;"><u>Heating</u></th> </tr> </thead> <tbody> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 17.00 cfm</td> <td>17.00 cfm</td> </tr> <tr> <td>Vent Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 0.40 cfm/sq ft</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 80.00 To be calculated</td> <td>80.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </tbody> </table>	<u>Cooling</u>	<u>Heating</u>	Vent Type: None	None	Vent Value: 17.00 cfm	17.00 cfm	Vent Schedule: Available (100%)		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 80.00 To be calculated	80.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
<u>Cooling</u>	<u>Heating</u>																											
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Room Exhaust:																												
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Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h·ft ² ·°F	Alpha	Type / Energy Type	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Shade Coef	U Value Btu/h·ft ² ·°F	External Shading	Internal Shading						
Roof - 1	140 ft ²	0	90 90.1-07 Zone 4a/5a roof	0.0480	0.90											
Misc Load 1	300.000 W		Misc - Elementary School			Electricity							100	100		0 60.00

Room Description: 1044 - FACULTY DINING

Zone Description: 1-08

System Description: System 5 Flr 1

<u>GENERAL INFORMATION</u>	<u>PEOPLE</u>	<u>AIRFLOW INFORMATION</u>																										
Floor Area: 455 ft ² Flr-Flr Height: 10.0 ft Plenum Height: 2.0 ft Height Above Flr: Slab Cnstr Type: 4* LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 12 People People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.9 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%; text-align: center;"><u>Cooling</u></th> <th style="width: 50%; text-align: center;"><u>Heating</u></th> </tr> </thead> <tbody> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 301.00 cfm</td> <td>301.00 cfm</td> </tr> <tr> <td>Vent Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 0.40 cfm/sq ft</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 600.00 To be calculated</td> <td>600.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </tbody> </table>	<u>Cooling</u>	<u>Heating</u>	Vent Type: None	None	Vent Value: 301.00 cfm	301.00 cfm	Vent Schedule: Available (100%)		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 600.00 To be calculated	600.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
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Aux Supply: To be calculated	To be calculated																											
Room Exhaust:																												
Rm Exh Sched: Available (100%)																												

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h·ft ² ·°F	Alpha	Type / Energy Type	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Shade Coef	U Value Btu/h·ft ² ·°F	External Shading	Internal Shading						
Misc Load 1	2,000.000 W		Misc - Elementary School			Electricity							100	100		0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 1030 - CHOIR ROOM

Zone Description: 1-09

System Description: System 5 Flr 1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 1,027 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 38 People People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 550.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 1,050.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 550.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,050.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F						External Shading
Roof - 1	1,027 ft ²	0	90	90.1-07 Zone 4a/5a roof	0.0480	0.90										
S	348 ft ²	180	0	90.1-07 5a	0.0640	0.90										
Opening - 1				Door			Standard Door	67	0.00	0.20	Overhang - None	None	0.00			
Opening - 2				Window			90.1-07 4a Window	56	0.46	0.55	Overhang - None	None	0.00			
W	91 ft ²	270	0	90.1-07 5a	0.0640	0.90										
Opening - 1				Window			90.1-07 4a Window	25	0.46	0.55	Overhang - None	None	0.00			
Misc Load 1	585.000 W			Misc - Elementary School			Electricity							100	100	0 60.00
Floor - 1																34 0.73

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 1028 - ORCHESTRA ROOM

Zone Description: 1-10

System Description: System 5 Flr 1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 1,086 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 38 People People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 549.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 1,050.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 549.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,050.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
Roof - 1	1,086 ft ²	0	90	90.1-07 Zone 4a/5a roof	0.0480	0.90									
S	364 ft ²	180	0	90.1-07 5a	0.0640	0.90									
Opening - 1				Door			Standard Door	67	0.00	0.20	Overhang - None	None	0.00		
Opening - 2				Window			90.1-07 4a Window	58	0.46	0.55	Overhang - None	None	0.00		
Misc Load 1	585.000 W			Misc - Elementary School			Electricity						100	100	0 60.00
Floor - 1															28 0.73

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 1029 - ORCHESTRA ROOM

Zone Description: 1-11

System Description: System 5 Flr 1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 1,061 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 38 People People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 549.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 1,050.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 549.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,050.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
Roof - 1	1,061 ft ²	0	90	90.1-07 Zone 4a/5a roof	0.0480	0.90									
S	364 ft ²	180	0	90.1-07 5a	0.0640	0.90									
Opening - 1				Door			Standard Door	67	0.00	0.20	Overhang - None	None	0.00		
Opening - 2				Window			90.1-07 4a Window	58	0.46	0.55	Overhang - None	None	0.00		
Misc Load 1	585.000 W			Misc - Elementary School			Electricity						100	100	0 60.00
Floor - 1															28 0.73

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 1027 - BAND ROOM

Zone Description: 1-12

System Description: System 5 Flr 1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 1,055 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 38 People People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 577.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 1,200.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 577.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,200.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
Roof - 1	1,055 ft ²	0	90	90.1-07 Zone 4a/5a roof	0.0480	0.90									
S	354 ft ²	180	0	90.1-07 5a	0.0640	0.90									
Opening - 1				Door			Standard Door	57	0.00	0.20	Overhang - None	None	0.00		
Misc Load 1	585.000 W			Misc - Elementary School			Electricity						100	100	0 60.00
Floor - 1															27 0.73

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 1017 - TLT

Zone Description: 1-14

System Description: System 5 Flr 1

<u>GENERAL INFORMATION</u>	<u>PEOPLE</u>	<u>AIRFLOW INFORMATION</u>
Floor Area: 123 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 78.0 °F / 83.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person <u>LIGHTS</u> Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.9 W/sq ft Ballast Factor: 1.0	<u>Cooling</u> Vent Type: None Vent Value: 0.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 100.00 To be calculated Aux Supply: To be calculated Room Exhaust: 210.00 cfm Rm Exh Sched: Wyoming General
		<u>Heating</u> None 0.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 100.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² ·°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass		External Shading	Internal Shading	Adj	Pct	Pct	Pct	Rad
									Temp/ Grnd Refl	Sen/ Cool Tmp			Rm/ Heat Tnp	Ret/ Perm Len	Frc/ Loss Coef		

Room Description: 1018 - GIRLS LOCKER ROOM

Zone Description: 1-14

System Description: System 5 Flr 1

<u>GENERAL INFORMATION</u>	<u>PEOPLE</u>	<u>AIRFLOW INFORMATION</u>
Floor Area: 600 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 78.0 °F / 83.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person <u>LIGHTS</u> Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.9 W/sq ft Ballast Factor: 1.0	<u>Cooling</u> Vent Type: None Vent Value: 0.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 300.00 To be calculated Aux Supply: To be calculated Room Exhaust: 310.00 cfm Rm Exh Sched: Wyoming General
		<u>Heating</u> None 0.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 300.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² ·°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass		External Shading	Internal Shading	Adj	Pct	Pct	Pct	Rad
									Temp/ Grnd Refl	Sen/ Cool Tnp			Rm/ Heat Tnp	Ret/ Perm Len	Frc/ Loss Coef		

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 1019 - TLT

Zone Description: 1-14

System Description: System 5 Flr 1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																												
Floor Area: 123 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 78.0 °F / 83.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.9 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"> <table style="width: 100%; border: none;"> <tr> <th style="text-align: center;">Cooling</th> <th style="text-align: center;">Heating</th> </tr> <tr> <td style="border: none;">Vent Type: None</td> <td style="border: none;">None</td> </tr> <tr> <td style="border: none;">Vent Value: 0.00 cfm</td> <td style="border: none;">0.00 cfm</td> </tr> <tr> <td style="border: none;">Vent Schedule: Available (100%)</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Infil Type: HEAPY</td> <td style="border: none;">HEAPY</td> </tr> <tr> <td style="border: none;">Infil Value: 0.00 air changes/hr</td> <td style="border: none;">0.08 cfm/sq ft of wall</td> </tr> <tr> <td style="border: none;">Infil Schedule: Available (100%)</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Vav Airflow: Min: 0.40 cfm/sq ft</td> <td style="border: none;">Max: 100.00 % Clg Airflow</td> </tr> <tr> <td style="border: none;">Vav Sched: Available (100%)</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Supply: 100.00 To be calculated</td> <td style="border: none;">100.00 To be calculated</td> </tr> <tr> <td style="border: none;">Aux Supply: To be calculated</td> <td style="border: none;">To be calculated</td> </tr> <tr> <td style="border: none;">Room Exhaust: 210.00 cfm</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Rm Exh Sched: Wyoming General</td> <td style="border: none;"></td> </tr> </table> </td> <td style="width: 50%; border: none;"></td> </tr> </table>	<table style="width: 100%; border: none;"> <tr> <th style="text-align: center;">Cooling</th> <th style="text-align: center;">Heating</th> </tr> <tr> <td style="border: none;">Vent Type: None</td> <td style="border: none;">None</td> </tr> <tr> <td style="border: none;">Vent Value: 0.00 cfm</td> <td style="border: none;">0.00 cfm</td> </tr> <tr> <td style="border: none;">Vent Schedule: Available (100%)</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Infil Type: HEAPY</td> <td style="border: none;">HEAPY</td> </tr> <tr> <td style="border: none;">Infil Value: 0.00 air changes/hr</td> <td style="border: none;">0.08 cfm/sq ft of wall</td> </tr> <tr> <td style="border: none;">Infil Schedule: Available (100%)</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Vav Airflow: Min: 0.40 cfm/sq ft</td> <td style="border: none;">Max: 100.00 % Clg Airflow</td> </tr> <tr> <td style="border: none;">Vav Sched: Available (100%)</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Supply: 100.00 To be calculated</td> <td style="border: none;">100.00 To be calculated</td> </tr> <tr> <td style="border: none;">Aux Supply: To be calculated</td> <td style="border: none;">To be calculated</td> </tr> <tr> <td style="border: none;">Room Exhaust: 210.00 cfm</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Rm Exh Sched: Wyoming General</td> <td style="border: none;"></td> </tr> </table>	Cooling	Heating	Vent Type: None	None	Vent Value: 0.00 cfm	0.00 cfm	Vent Schedule: Available (100%)		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 100.00 To be calculated	100.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust: 210.00 cfm		Rm Exh Sched: Wyoming General		
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Cooling	Heating																													
Vent Type: None	None																													
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Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h·ft ² ·°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass		External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
									U Value Btu/h·ft ² ·°F								

Room Description: 1021 - LOBBY

Zone Description: 1-15

System Description: System 5 Flr 1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																												
Floor Area: 1,379 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.3 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"> <table style="width: 100%; border: none;"> <tr> <th style="text-align: center;">Cooling</th> <th style="text-align: center;">Heating</th> </tr> <tr> <td style="border: none;">Vent Type: None</td> <td style="border: none;">None</td> </tr> <tr> <td style="border: none;">Vent Value: 107.00 cfm</td> <td style="border: none;">107.00 cfm</td> </tr> <tr> <td style="border: none;">Vent Schedule: Available (100%)</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Infil Type: HEAPY</td> <td style="border: none;">HEAPY</td> </tr> <tr> <td style="border: none;">Infil Value: 0.00 air changes/hr</td> <td style="border: none;">0.08 cfm/sq ft of wall</td> </tr> <tr> <td style="border: none;">Infil Schedule: Available (100%)</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Vav Airflow: Min: 0.40 cfm/sq ft</td> <td style="border: none;">Max: 100.00 % Clg Airflow</td> </tr> <tr> <td style="border: none;">Vav Sched: Available (100%)</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Supply: 490.00 To be calculated</td> <td style="border: none;">490.00 To be calculated</td> </tr> <tr> <td style="border: none;">Aux Supply: To be calculated</td> <td style="border: none;">To be calculated</td> </tr> <tr> <td style="border: none;">Room Exhaust:</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Rm Exh Sched: Available (100%)</td> <td style="border: none;"></td> </tr> </table> </td> <td style="width: 50%; border: none;"></td> </tr> </table>	<table style="width: 100%; border: none;"> <tr> <th style="text-align: center;">Cooling</th> <th style="text-align: center;">Heating</th> </tr> <tr> <td style="border: none;">Vent Type: None</td> <td style="border: none;">None</td> </tr> <tr> <td style="border: none;">Vent Value: 107.00 cfm</td> <td style="border: none;">107.00 cfm</td> </tr> <tr> <td style="border: none;">Vent Schedule: Available (100%)</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Infil Type: HEAPY</td> <td style="border: none;">HEAPY</td> </tr> <tr> <td style="border: none;">Infil Value: 0.00 air changes/hr</td> <td style="border: none;">0.08 cfm/sq ft of wall</td> </tr> <tr> <td style="border: none;">Infil Schedule: Available (100%)</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Vav Airflow: Min: 0.40 cfm/sq ft</td> <td style="border: none;">Max: 100.00 % Clg Airflow</td> </tr> <tr> <td style="border: none;">Vav Sched: Available (100%)</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Supply: 490.00 To be calculated</td> <td style="border: none;">490.00 To be calculated</td> </tr> <tr> <td style="border: none;">Aux Supply: To be calculated</td> <td style="border: none;">To be calculated</td> </tr> <tr> <td style="border: none;">Room Exhaust:</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Rm Exh Sched: Available (100%)</td> <td style="border: none;"></td> </tr> </table>	Cooling	Heating	Vent Type: None	None	Vent Value: 107.00 cfm	107.00 cfm	Vent Schedule: Available (100%)		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 490.00 To be calculated	490.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)		
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Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h·ft ² ·°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass		External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
									U Value Btu/h·ft ² ·°F								

N	78 ft ²	0	0 90.1-07 5a	0.0640	0.90												
Opening - 1			Window			90.1-07 4a Window	20	0.46	0.55	Overhang - None	None	0.00					
W	208 ft ²	270	0 90.1-07 5a	0.0640	0.90												
Opening - 1			Window			90.1-07 4a Window	57	0.46	0.55	Overhang - None	None	0.00					
Floor - 1																	

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 1024 - VESTIBULE

Zone Description: 1-15

System Description: System 5 Flr 1

<u>GENERAL INFORMATION</u>	<u>PEOPLE</u>	<u>AIRFLOW INFORMATION</u>																										
Floor Area: 195 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.3 W/sq ft Ballast Factor: 1.0	<table style="width: 100%;"> <tr> <th style="text-align: center;">Cooling</th> <th style="text-align: center;">Heating</th> </tr> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 0.00 cfm</td> <td>0.00 cfm</td> </tr> <tr> <td>Vent Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 0.40 cfm/sq ft</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 65.00 To be calculated</td> <td>65.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </table>	Cooling	Heating	Vent Type: None	None	Vent Value: 0.00 cfm	0.00 cfm	Vent Schedule: Available (100%)		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 65.00 To be calculated	65.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
Cooling	Heating																											
Vent Type: None	None																											
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Supply: 65.00 To be calculated	65.00 To be calculated																											
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Room Exhaust:																												
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Description	Area/Amount	Dir	Const Type / Tilt	Schedule	U Value	Alpha	Glass				External Shading	Internal Shading	Adj Temp/Grnd Refl	Pct Sen/Cool Tmp	Pct Rm/Heat Tmp	Pct Ret/Perm Len	Pct Rad Frc/Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² ·°F								
E	208 ft ²	90	0	90.1-07 5a	0.0640	0.90												
Opening - 1 Floor - 1			Window				90.1-07 4a Window	41	0.46	0.55	Overhang - None	None	0.00					16 0.73

Room Description: 2001 - LOBBY

Zone Description: 1-16

System Description: System 5 Flr 1

<u>GENERAL INFORMATION</u>	<u>PEOPLE</u>	<u>AIRFLOW INFORMATION</u>																										
Floor Area: 535 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.3 W/sq ft Ballast Factor: 1.0	<table style="width: 100%;"> <tr> <th style="text-align: center;">Cooling</th> <th style="text-align: center;">Heating</th> </tr> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 42.00 cfm</td> <td>42.00 cfm</td> </tr> <tr> <td>Vent Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 0.40 cfm/sq ft</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 150.00 To be calculated</td> <td>150.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </table>	Cooling	Heating	Vent Type: None	None	Vent Value: 42.00 cfm	42.00 cfm	Vent Schedule: Available (100%)		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 150.00 To be calculated	150.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
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Aux Supply: To be calculated	To be calculated																											
Room Exhaust:																												
Rm Exh Sched: Available (100%)																												

Description	Area/Amount	Dir	Const Type / Tilt	Schedule	U Value	Alpha	Glass				External Shading	Internal Shading	Adj Temp/Grnd Refl	Pct Sen/Cool Tmp	Pct Rm/Heat Tmp	Pct Ret/Perm Len	Pct Rad Frc/Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² ·°F								
Roof - 1	535 ft ²	0	90	90.1-07 Zone 4a/5a roof	0.0480	0.90		0			Overhang - None	None						

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 2002 - CORRIDOR

Zone Description: 1-16

System Description: System 5 Flr 1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 827 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.5 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 64.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 250.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 64.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 250.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F						External Shading
Roof - 1	827 ft ²	0	90	90.1-07 Zone 4a/5a roof	0.0480	0.90										
N	429 ft ²	0	0	90.1-07 5a	0.0640	0.90										
Opening - 1				Window			90.1-07 4a Window	110	0.46	0.55	Overhang - None	None				0.00
Partition - 1	200 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 2015 - CLASSROOM
Partition - 2	200 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 2014 - SCIENCE CL
Partition - 3	200 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 2012 - PREP ROOM
Partition - 4	200 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 2011 - SCIENCE CL

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 2016 - CLASSROOM

Zone Description: 1-17

System Description: System 5 Flr 1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 984 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 29 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 543.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 1,890.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 543.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,890.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading					
Roof - 1	984 ft ²	0	90	90.1-07 Zone 4a/5a roof	0.0480	0.90										
W	527 ft ²	270	0	90.1-07 5a	0.0640	0.90										
Opening - 1				Window			90.1-07 4a Window	144	0.46	0.55	Overhang - None	None	0.00			
S	338 ft ²	180	0	90.1-07 5a	0.0640	0.90										
Opening - 1				Window			90.1-07 4a Window	54	0.46	0.55	Overhang - None	None	0.00			
Misc Load 1	800.000 W			Misc - Elementary School			Electricity							100	100	0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 2015 - CLASSROOM

Zone Description: 1-18

System Description: System 5 Flr 1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 984 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 29 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 543.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 1,400.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 543.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,400.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F						External Shading
Roof - 1	984 ft ²	0	90	90.1-07 Zone 4a/5a roof	0.0480	0.90										
S	338 ft ²	180	0	90.1-07 5a	0.0640	0.90										
Opening - 1				Window			90.1-07 4a Window	54	0.46	0.55	Overhang - None	None	0.00			
Misc Load 1	800.000 W			Misc - Elementary School			Electricity							100	100	0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 2014 - SCIENCE CLASSROOM

Zone Description: 1-19

System Description: System 5 Flr 1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION		
Floor Area: 1,332 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: Classroom # of People: 31 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"> Cooling Vent Type: None Vent Value: 597.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 2,100.00 To be calculated Aux Supply: To be calculated Room Exhaust: 1,330.00 cfm Rm Exh Sched: Wyoming General </td> <td style="width: 50%; border: none;"> Heating None 597.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 2,100.00 To be calculated To be calculated </td> </tr> </table>	Cooling Vent Type: None Vent Value: 597.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 2,100.00 To be calculated Aux Supply: To be calculated Room Exhaust: 1,330.00 cfm Rm Exh Sched: Wyoming General	Heating None 597.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 2,100.00 To be calculated To be calculated
Cooling Vent Type: None Vent Value: 597.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 2,100.00 To be calculated Aux Supply: To be calculated Room Exhaust: 1,330.00 cfm Rm Exh Sched: Wyoming General	Heating None 597.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 2,100.00 To be calculated To be calculated			

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
Roof - 1	1,332 ft ²	0	90	90.1-07 Zone 4a/5a roof	0.0480	0.90									
S window	468 ft ²	180	0	90.1-07 5a	0.0640	0.90	90.1-07 4a Window	75	0.46	0.55	Overhang - None	None	0.00		
Misc Load 1	800.000 W			Misc - Elementary School			Electricity						100	100	0 60.00

Room Description: 2012 - PREP ROOM

Zone Description: 1-20

System Description: System 5 Flr 1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION		
Floor Area: 301 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: General Office Space # of People: 143 sq ft/person People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"> Cooling Vent Type: None Vent Value: 0.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 300.00 To be calculated Aux Supply: To be calculated Room Exhaust: 300.00 cfm Rm Exh Sched: Wyoming General </td> <td style="width: 50%; border: none;"> Heating None 0.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 300.00 To be calculated To be calculated </td> </tr> </table>	Cooling Vent Type: None Vent Value: 0.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 300.00 To be calculated Aux Supply: To be calculated Room Exhaust: 300.00 cfm Rm Exh Sched: Wyoming General	Heating None 0.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 300.00 To be calculated To be calculated
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Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
Roof - 1	301 ft ²	0	90	90.1-07 Zone 4a/5a roof	0.0480	0.90									
Misc Load 1	1,550.000 Btu/h			Misc - Elementary School			Electricity						100	100	0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 2013 - STORAGE

Zone Description: 1-20

System Description: System 5 Flr 1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 123 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.8 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 0.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 125.00 To be calculated Aux Supply: To be calculated Room Exhaust: 125.00 cfm Rm Exh Sched: Wyoming General
		Heating None 0.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 125.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F						External Shading
Roof - 1	123 ft ²	0	90	90.1-07 Zone 4a/5a roof	0.0480	0.90										
S	156 ft ²	180	0	90.1-07 5a	0.0640	0.90										
Opening - 1				Window			90.1-07 4a Window	25	0.46	0.55	Overhang - None	None				0.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 2011 - SCIENCE CLASSROOM

Zone Description: 1-21

System Description: System 5 Flr 1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 1,332 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 31 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 597.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 2,100.00 To be calculated Aux Supply: To be calculated Room Exhaust: 1,330.00 cfm Rm Exh Sched: Wyoming General Heating None 597.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 2,100.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F						External Shading
Roof - 1	1,332 ft ²	0	90	90.1-07 Zone 4a/5a roof	0.0480	0.90										
S	468 ft ²	180	0	90.1-07 5a	0.0640	0.90										
Opening - 1				Window			90.1-07 4a Window	75	0.46	0.55	Overhang - None	None	0.00			
Misc Load 1	800.000 W			Misc - Elementary School			Electricity							100	100	0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 2003 - CORRIDOR

Zone Description: 1-22

System Description: System 5 Flr 1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 1,108 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.5 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 86.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 300.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating Vent Type: None Vent Value: 86.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.08 cfm/sq ft of wall Infil Schedule: Available (100%) Vav Airflow: Min: 100.00 % Clg Airflow Vav Sched: Available (100%) Supply: 300.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F						External Shading
Roof - 1	1,108 ft ²	0	90	90.1-07 Zone 4a/5a roof	0.0480	0.90										
W	104 ft ²	270	0	90.1-07 5a	0.0640	0.90										
Opening - 1				Window			90.1-07 4a Window	28	0.46	0.55	Overhang - None	None	0.00			
E	104 ft ²	90	0	90.1-07 5a	0.0640	0.90										
Opening - 1				Window			90.1-07 4a Window	20	0.46	0.55	Overhang - None	None	0.00			

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 2006 - GIRLS TLT

Zone Description: 1-23

System Description: System 5 Flr 1

<u>GENERAL INFORMATION</u>	<u>PEOPLE</u>	<u>AIRFLOW INFORMATION</u>																										
Floor Area: 280 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 78.0 °F / 83.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.9 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;"><u>Cooling</u></td> <td style="width: 50%;"><u>Heating</u></td> </tr> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 0.00 cfm</td> <td>0.00 cfm</td> </tr> <tr> <td>Vent Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 0.40 cfm/sq ft</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 150.00 To be calculated</td> <td>150.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust: 420.00 cfm</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Wyoming General</td> <td></td> </tr> </table>	<u>Cooling</u>	<u>Heating</u>	Vent Type: None	None	Vent Value: 0.00 cfm	0.00 cfm	Vent Schedule: Available (100%)		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 150.00 To be calculated	150.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust: 420.00 cfm		Rm Exh Sched: Wyoming General	
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Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² -°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass U Value Btu/h-ft ² -°F	External Shading	Internal Shading	Adj	Pct	Pct	Pct	Rad
												Temp/ Grnd Refl	Sen/ Cool Tmp	Rm/ Heat Tmp	Ret/ Perm Len	Frc/ Loss Coef
Roof - 1	280 ft ²	0	90 90.1-07 Zone 4a/5a roof	0.0480	0.90		0			Overhang - None	None					
S	156 ft ²	180	0 90.1-07 5a	0.0640	0.90											
Opening - 1			Window			90.1-07 4a Window	25	0.46	0.55	Overhang - None	None	0.00				

Room Description: 2007 - BOYS TLT

Zone Description: 1-23

System Description: System 5 Flr 1

<u>GENERAL INFORMATION</u>	<u>PEOPLE</u>	<u>AIRFLOW INFORMATION</u>																										
Floor Area: 280 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 78.0 °F / 83.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.9 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;"><u>Cooling</u></td> <td style="width: 50%;"><u>Heating</u></td> </tr> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 0.00 cfm</td> <td>0.00 cfm</td> </tr> <tr> <td>Vent Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 0.40 cfm/sq ft</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 150.00 To be calculated</td> <td>150.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust: 420.00 cfm</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Wyoming General</td> <td></td> </tr> </table>	<u>Cooling</u>	<u>Heating</u>	Vent Type: None	None	Vent Value: 0.00 cfm	0.00 cfm	Vent Schedule: Available (100%)		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 150.00 To be calculated	150.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust: 420.00 cfm		Rm Exh Sched: Wyoming General	
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Roof - 1	280 ft ²	0	90 90.1-07 Zone 4a/5a roof	0.0480	0.90		0			Overhang - None	None					
S	156 ft ²	180	0 90.1-07 5a	0.0640	0.90											
Opening - 1			Window			90.1-07 4a Window	25	0.46	0.55	Overhang - None	None	0.00				

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 2008 - JANITOR

Zone Description: 1-23

System Description: System 5 Flr 1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 32 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.9 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 0.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 0.00 To be calculated Aux Supply: To be calculated Room Exhaust: 50.00 cfm Rm Exh Sched: Wyoming General Heating None 0.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 0.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² -°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass		External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Pct Frc/ Loss Coef
									U Value Btu/h-ft ² -°F	Internal Shading							
Roof - 1	32 ft ²	0	90 90.1-07 Zone 4a/5a roof	0.0480	0.90		0				Overhang - None	None					

Room Description: 2005 - LOBBY

Zone Description: 1-24

System Description: System 5 Flr 1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 1,131 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.5 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 88.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 500.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%) Heating None 88.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 500.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² -°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass		External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Pct Frc/ Loss Coef
									U Value Btu/h-ft ² -°F	Internal Shading							
Roof - 1	1,131 ft ²	0	90 90.1-07 Zone 4a/5a roof	0.0480	0.90		0				Overhang - None	None					
E Opening - 1	234 ft ²	90	90.1-07 5a Window	0.0640	0.90	90.1-07 4a Window	46	0.46	0.55		Overhang - None	None	0.00				
W Opening - 1	208 ft ²	270	90.1-07 5a Window	0.0640	0.90	90.1-07 4a Window	57	0.46	0.55		Overhang - None	None	0.00				

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 2010 - MECHANICAL

Zone Description: 1-25

System Description: System 5 Flr 1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 672 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 85.0 °F / 88.0 °F Design Htg DB / Drift Point: 55.0 °F / 55.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Room Floor Multiplier: 1 Humidistat Location: None Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.5 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 0.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 250.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 0.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 250.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
Roof - 1	672 ft ²	0	90	90.1-07 Zone 4a/5a roof	0.0480	0.90									
S Opening - 1	221 ft ²	180	0	90.1-07 5a Window	0.0640	0.90	90.1-07 4a Window	35	0.46	0.55	Overhang - None	None	0.00		
E Opening - 1	114 ft ²	90	0	90.1-07 5a Window	0.0640	0.90	90.1-07 4a Window	23	0.46	0.55	Overhang - None	None	0.00		
Misc Load 1	750.000 W			Available 100%			None						100	100	0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 2020 - CLASSROOM

Zone Description: 1-27

System Description: System 5 Flr 1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 585 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 325.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 1,200.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 325.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,200.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h·ft ² ·°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h·ft ² ·°F	External Shading					
N	39 ft ²	0	0	90.1-07 5a	0.0640	0.90										
Opening - 1				Window			90.1-07 4a Window	10	0.46	0.55	Overhang - None	None	0.00			
W	346 ft ²	270	0	90.1-07 5a	0.0640	0.90										
Opening - 1				Window			90.1-07 4a Window	95	0.46	0.55	Overhang - None	None	0.00			
S	39 ft ²	180	0	90.1-07 5a	0.0640	0.90										
Opening - 1				Window			90.1-07 4a Window	6	0.46	0.55	Overhang - None	None	0.00			
Misc Load 1	800.000 W			Misc - Elementary School			Electricity							100	100	0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 1025 - GYMNASIUM

Zone Description: No Zone

System Description: System 5 Flr 1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 6,300 ft ² Flr-Flr Height: 30.0 ft Plenum Height: 0.0 ft Height Above Flr: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Gym # of People: 35 sq ft/person People Sensible: 710 Btu/h People Latent : 1,090 Btu/h People Schedule: People - Elementary Gym Workstation: 1.0 workstation/person <h3 style="text-align: center;">LIGHTS</h3> Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elementary Gymnasium Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	<h3 style="text-align: center;">Cooling</h3> Vent Type: None Vent Value: 2,363.00 cfm Vent Schedule: Wyoming Gym OA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 5,000.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		<h3 style="text-align: center;">Heating</h3> None 2,363.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 5,000.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading					
W	600 ft ²	270	0	90.1-07 5a Wall	0.0640	0.90										
Opening - 1				Window			90.1-07 4a Window	164	0.46	0.55	Overhang - None	None	0.00			
S	1,860 ft ²	180	0	90.1-07 5a Wall	0.0640	0.90										
Opening - 1				Window			90.1-07 4a Window	298	0.46	0.55	Overhang - None	None	0.00			
Floor - 1																82 0.73

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 1025A - GYM SEATING AREA

Zone Description: No Zone

System Description: System 5 Flr 1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 2,500 ft ² Flr-Flr Height: 30.0 ft Plenum Height: 0.0 ft Height Above Flr: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: Auditorium # of People: 7 sq ft/person People Sensible: 225 Btu/h People Latent : 105 Btu/h People Schedule: People - Elementary Gym Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elementary Gymnasium Lighting Amount: 0.9 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 3,667.00 cfm Vent Schedule: Wyoming Gym OA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 5,000.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 3,667.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 5,000.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h·ft ² ·°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef		
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h·ft ² ·°F						External Shading	Internal Shading
Roof - 1	2,500 ft ²	0	90	90.1-07 Zone 4a/5a roof	0.0480	0.90											
N	750 ft ²	0	0	90.1-07 5a Wall	0.0640	0.90											
Opening - 1				Window			90.1-07 4a Window	193	0.46	0.55	Overhang - None	None	0.00				
E	3,000 ft ²	90	0	90.1-07 5a Wall	0.0640	0.90											
Opening - 1				Window			90.1-07 4a Window	591	0.46	0.55	Overhang - None	None	0.00				
S	750 ft ²	180	0	90.1-07 5a Wall	0.0640	0.90											
Opening - 1				Window			90.1-07 4a Window	120	0.46	0.55	Overhang - None	None	0.00				
Misc Load 1	500.000 W			Misc - Elementary School			Electricity							100	100	0	60.00
Floor - 1																150	0.73

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 1040 - KITCHEN

Zone Description: No Zone

System Description: System 5 Flr 1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 1,850 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: None # of People: 40 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elementary kitchen Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elementary kitchen Lighting Amount: 1.2 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 3,113.00 cfm Vent Schedule: Wyoming Kitchen OA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 3,065.00 To be calculated Aux Supply: To be calculated Room Exhaust: 3,125.00 cfm Rm Exh Sched: Wyoming Exhaust Heating None 3,113.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 3,065.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F						External Shading
Roof - 1	1,850 ft ²	0	90	90.1-07 Zone 4a/5a roof	0.0480	0.90										
S windows	507 ft ²	180	0	90.1-07 5a Wall Window	0.0640	0.90	90.1-07 4a Window	81	0.46	0.55	Overhang - None	None	0.00			
W Opening - 1	637 ft ²	270	0	90.1-07 5a Wall Window	0.0640	0.90	90.1-07 4a Window	175	0.46	0.55	Overhang - None	None	0.00			
Misc Load 1	43,000.000 Btuh			Misc - Elementary School			Electricity							100	100	0 60.00
Floor - 1																88 0.73

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 1041 - LAUNDRY

Zone Description: No Zone

System Description: System 5 Flr 1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 51 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.6 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Cooling</th> <th style="text-align: center;">Heating</th> </tr> </thead> <tbody> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 0.00 cfm</td> <td>0.00 cfm</td> </tr> <tr> <td>Vent Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 0.40 cfm/sq ft</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 50.00 To be calculated</td> <td>50.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </tbody> </table>	Cooling	Heating	Vent Type: None	None	Vent Value: 0.00 cfm	0.00 cfm	Vent Schedule: Available (100%)		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 50.00 To be calculated	50.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
Cooling	Heating																											
Vent Type: None	None																											
Vent Value: 0.00 cfm	0.00 cfm																											
Vent Schedule: Available (100%)																												
Infil Type: HEAPY	HEAPY																											
Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall																											
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Vav Sched: Available (100%)																												
Supply: 50.00 To be calculated	50.00 To be calculated																											
Aux Supply: To be calculated	To be calculated																											
Room Exhaust:																												
Rm Exh Sched: Available (100%)																												

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h·ft ² ·°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass		External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
									U Value Btu/h·ft ² ·°F	Internal Shading							
Roof - 1	51 ft ²	0	90 90.1-07 Zone 4a/5a roof	0.0480	0.90		0				Overhang - None	None					
Misc Load 1	18,000.000 Btuh		Misc - Elementary School			Electricity								100	100	0	60.00

Room Description: 1042 - OFFICE

Zone Description: No Zone

System Description: System 5 Flr 1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 74 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: General Office Space # of People: 1 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.1 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Cooling</th> <th style="text-align: center;">Heating</th> </tr> </thead> <tbody> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 12.00 cfm</td> <td>12.00 cfm</td> </tr> <tr> <td>Vent Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 0.40 cfm/sq ft</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 75.00 To be calculated</td> <td>75.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </tbody> </table>	Cooling	Heating	Vent Type: None	None	Vent Value: 12.00 cfm	12.00 cfm	Vent Schedule: Available (100%)		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 75.00 To be calculated	75.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
Cooling	Heating																											
Vent Type: None	None																											
Vent Value: 12.00 cfm	12.00 cfm																											
Vent Schedule: Available (100%)																												
Infil Type: HEAPY	HEAPY																											
Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall																											
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Supply: 75.00 To be calculated	75.00 To be calculated																											
Aux Supply: To be calculated	To be calculated																											
Room Exhaust:																												
Rm Exh Sched: Available (100%)																												

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h·ft ² ·°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass		External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
									U Value Btu/h·ft ² ·°F	Internal Shading							
Roof - 1	74 ft ²	0	90 90.1-07 Zone 4a/5a roof	0.0480	0.90		0				Overhang - None	None					
Misc Load 1	300.000 W		Misc - Elementary School			Electricity								100	100	0	60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 1043 - DRY STORAGE

Zone Description: No Zone

System Description: System 5 Flr 1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 215 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.8 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 0.00 cfm Vent Schedule: Available (100%) Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 200.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 0.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 200.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
Roof - 1	215 ft ²	0	90	90.1-07 Zone 4a/5a roof	0.0480	0.90									
S	221 ft ²	180	0	90.1-07 5a Wall	0.0640	0.90									
Opening - 1				Window			90.1-07 4a Window	35	0.46	0.55	Overhang - None	None	0.00		
Floor - 1															17 0.73

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 107 - ART CLASSROOM

Zone Description: No Zone

System Description: System 5 Flr 1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 1,336 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 33 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 610.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 2,500.00 To be calculated Aux Supply: To be calculated Room Exhaust: 935.00 cfm Rm Exh Sched: Wyoming General Heating None 610.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 2,500.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
N	673 ft ²	0	0	Wyoming Existing	0.1059	0.90									
doors				Door			Standard Door	356	0.00	0.20	Overhang - None	None	0.00		
windows				Window			90.1-07 4a Window	173	0.46	0.55	Overhang - None	None	0.00		
Misc Load 1	800.000 W			Misc - Elementary School			Electricity						100	100	0 60.00
Floor - 1															52 0.73

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 111 - ART CLASSROOM

Zone Description: No Zone

System Description: System 5 Flr 1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 926 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 500.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 2,000.00 To be calculated Aux Supply: To be calculated Room Exhaust: 980.00 cfm Rm Exh Sched: Wyoming General Heating None 500.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 2,000.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h·ft ² ·°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h·ft ² ·°F	External Shading					
E	481 ft ²	90	0	Wyoming Existing	0.1059	0.90										
Opening - 1				Window			90.1-07 4a Window	95	0.46	0.55	Overhang - None	None	0.00			
N	325 ft ²	0	0	Wyoming Existing	0.1059	0.90										
Opening - 1				Window			90.1-07 4a Window	84	0.46	0.55	Overhang - None	None	0.00			
Misc Load 1	800.000 W			Misc - Elementary School			Electricity							100	100	0 60.00
Partition - 1	200 ft ²			0.75* Gyp Frame	0.3880									Adjacent Room: 113 - ART CLASSR		
Partition - 2	200 ft ²			0.75* Gyp Frame	0.3880									Adjacent Room: 110 - STAIR		
Floor - 1																62 0.73

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 113 - ART CLASSROOM

Zone Description: No Zone

System Description: System 5 Flr 1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 473 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 10 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 235.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 1,250.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 235.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,250.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass					Adj Temp/ Grnd Ref	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading					
E	273 ft ²	90	0	Wyoming Existing	0.1059	0.90										
Opening - 1				Window			90.1-07 4a Window	54	0.46	0.55	Overhang - None	None	0.00			
Misc Load 1	800.000 W			Misc - Elementary School			Electricity							100	100	0 60.00
Floor - 1																21 0.73

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 117 - MULTI-HANDICAPPED

Zone Description: No Zone

System Description: System 5 Flr 1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 700 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 11 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 250.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 1,500.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 250.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,500.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
E	416 ft ²	90	0	Wyoming Existing	0.1059	0.90									
Opening - 1				Window			90.1-07 4a Window	82	0.46	0.55	Overhang - None	None	0.00		
Misc Load 1	800.000 W			Misc - Elementary School			Electricity						100	100	0 60.00
Floor - 1															32 0.73

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 118 - FITNESS CENTER

Zone Description: No Zone

System Description: System 5 Flr 1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 793 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Gym # of People: 70 sq ft/person People Sensible: 710 Btu/h People Latent : 1,090 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.9 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 310.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 1,250.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 310.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,250.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h·ft ² ·°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef		
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h·ft ² ·°F						External Shading	Internal Shading
W windows Floor - 1	325 ft ²	270	0	Wyoming Existing Window	0.1059	0.90	90.1-07 4a Window	89	0.46	0.55	Overhang - None	None	0.00			25	0.73

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 120 - CLASSROOM

Zone Description: No Zone

System Description: System 5 Flr 1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 687 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 415.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 1,500.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 415.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,500.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading					
W	338 ft ²	270	0	Wyoming Existing	0.1059	0.90										
Opening - 1				Window			90.1-07 4a Window	93	0.46	0.55	Overhang - None	None	0.00			
Misc Load 1	800.000 W			Misc - Elementary School			Electricity							100	100	0 60.00
Floor - 1																26 0.73

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 123 - CLASSROOM

Zone Description: No Zone

System Description: System 5 Flr 1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 700 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 420.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 1,500.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 420.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,500.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading					
S	364 ft ²	180	0	Wyoming Existing	0.1059	0.90										
Opening - 1				Window			90.1-07 4a Window	58	0.46	0.55	Overhang - None	None	0.00			
Misc Load 1	800.000 W			Misc - Elementary School			Electricity							100	100	0 60.00
Floor - 1																28 0.73

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 141 - PROFESSIONAL DEVELOPMENT

Zone Description: No Zone

System Description: System 5 Flr 1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
<p>Floor Area: 815 ft² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft²-°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned</p>	<p>People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person <p style="text-align: center;">LIGHTS</p> Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0</p>	<p style="text-align: center;">Cooling</p> Vent Type: None Vent Value: 220.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 1,500.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		<p style="text-align: center;">Heating</p> None 220.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,500.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
S	416 ft ²	180	0	Wyoming Existing	0.1059	0.90									
Opening - 1				Window			90.1-07 4a Window	67	0.46	0.55	Overhang - None	None	0.00		
Misc Load 1	800.000 W			Misc - Elementary School			Electricity						100	100	0 60.00
Floor - 1															32 0.73

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 146 - CLINIC

Zone Description: No Zone

System Description: System 5 Flr 1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 433 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: General Office Space # of People: 143 sq ft/person People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.1 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 65.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 750.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 65.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 750.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading					
E	124 ft ²	90	0	Wyoming Existing	0.1059	0.90										
Opening - 1				Window			90.1-07 4a Window	24	0.46	0.55	Overhang - None	None	0.00			
Misc Load 1	650.000 W			Misc - Elementary School			Electricity							100	100	0 60.00
Floor - 1																10 0.73

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 154 - RECEPTION

Zone Description: No Zone

System Description: System 5 Flr 1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 520 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Reception Area # of People: 4 People People Sensible: 245 Btu/h People Latent : 155 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.1 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 85.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 1,000.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 85.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,000.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
W	312 ft ²	270	0	Wyoming Existing	0.1059	0.90									
Opening - 1				Window			90.1-07 4a Window	85	0.46	0.55	Overhang - None	None	0.00		
Misc Load 1	110.000 W			Misc - Elementary School			Electricity						100	100	0 60.00
Floor - 1															24 0.73

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 158 - WORKROOM

Zone Description: No Zone

System Description: System 5 Flr 1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 359 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: General Office Space # of People: 143 sq ft/person People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.1 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 100.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 1,250.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 100.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,250.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
W	283 ft ²	270	0	Wyoming Existing	0.1059	0.90									
Opening - 1				Window			90.1-07 4a Window	77	0.46	0.55	Overhang - None	None	0.00		
Misc Load 1	2,600.000 W			Misc - Elementary School			Electricity						100	100	0 60.00
Floor - 1															22 0.73

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 162 - CONFERENCE

Zone Description: No Zone

System Description: System 5 Flr 1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 437 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Conference Room # of People: 8 People People Sensible: 245 Btu/h People Latent : 155 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.3 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 105.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 750.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 105.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 200.00 % Htg Airflow To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h·ft ² ·°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h·ft ² ·°F	External Shading					
N	332 ft ²	0	0	Wyoming Existing	0.1059	0.90										
Opening - 1				Window			90.1-07 4a Window	85	0.46	0.55	Overhang - None	None	0.00			
W	228 ft ²	270	0	Wyoming Existing	0.1059	0.90										
Opening - 1				Window			90.1-07 4a Window	62	0.46	0.55	Overhang - None	None	0.00			
Misc Load 1	585.000 W			Misc - Elementary School			Cooling Load							100	100	0 60.00
Partition - 1	200 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 161 - OFFICE
Partition - 2	200 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 157 - CORRIDOR
Floor - 1																43 0.73

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 164 - MEDIA CENTER

Zone Description: No Zone

System Description: System 5 Flr 1

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 2,175 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Library # of People: 35 sq ft/person People Sensible: 245 Btu/h People Latent : 155 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 650.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 2,500.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 650.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 2,500.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading					
N	855 ft ²	0	0	Wyoming Existing	0.1059	0.90										
Opening - 1				Window			90.1-07 4a Window	220	0.46	0.55	Overhang - None	None	0.00			
W	117 ft ²	270	0	Wyoming Existing	0.1059	0.90										
Opening - 1				Window			90.1-07 4a Window	32	0.46	0.55	Overhang - None	None	0.00			
Misc Load 1	2,135.000 W			Misc - Elementary School			Electricity							100	100	0 60.00
Floor - 1																75 0.73

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 210 - CLASSROOM

Zone Description: No Zone

System Description: System 5 Flr 2

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 693 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person <h3 style="text-align: center;">LIGHTS</h3> Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	<h3 style="text-align: center;">Cooling</h3> Vent Type: None Vent Value: 415.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 1,500.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		<h3 style="text-align: center;">Heating</h3> None 415.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,500.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F						External Shading
N	390 ft ²	0	0	Wyoming Existing	0.1059	0.90										
Opening - 1				Window			90.1-07 4a Window	100	0.46	0.55	Overhang - None	None	0.00			
Misc Load 1	800.000 W			Misc - Elementary School			Electricity							100	100	0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 212 - CLASSROOM

Zone Description: No Zone

System Description: System 5 Flr 2

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 727 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 415.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 1,500.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 415.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,500.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading					
N window	455 ft ²	0	0	Wyoming Existing Window	0.1059	0.90	90.1-07 4a Window	117	0.46	0.55	Overhang - None	None	0.00			
E Opening - 1	117 ft ²	90	0	Wyoming Existing Window	0.1059	0.90	90.1-07 4a Window	23	0.46	0.55	Overhang - None	None	0.00			
Misc Load 1	800.000 W			Misc - Elementary School			Electricity							100	100	0 60.00
Partition - 1	200 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 213 - CLASSROOM
Partition - 2	200 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 210 - CLASSROOM
Partition - 3	200 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 211 - SMALL GROU

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 213 - CLASSROOM

Zone Description: No Zone

System Description: System 5 Flr 2

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 792 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 430.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 2,000.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 430.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 2,000.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading					
E	442 ft ²	90	0	Wyoming Existing	0.1059	0.90										
Opening - 1				Window			90.1-07 4a Window	87	0.46	0.55	Overhang - None	None	0.00			
N	234 ft ²	0	0	Wyoming Existing	0.1059	0.90										
Opening - 1				Window			90.1-07 4a Window	60	0.46	0.55	Overhang - None	None	0.00			
Misc Load 1	800.000 W			Misc - Elementary School			Electricity							100	100	0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 215 - CLASSROOM

Zone Description: No Zone

System Description: System 5 Flr 2

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 719 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"><u>Cooling</u></td> <td style="width: 50%; border: none;"><u>Heating</u></td> </tr> <tr> <td style="border: none;">Vent Type: None</td> <td style="border: none;">None</td> </tr> <tr> <td style="border: none;">Vent Value: 420.00 cfm</td> <td style="border: none;">420.00 cfm</td> </tr> <tr> <td style="border: none;">Vent Schedule: Wyoming UV DCV</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Infil Type: HEAPY</td> <td style="border: none;">HEAPY</td> </tr> <tr> <td style="border: none;">Infil Value: 0.00 air changes/hr</td> <td style="border: none;">0.08 cfm/sq ft of wall</td> </tr> <tr> <td style="border: none;">Infil Schedule: Available (100%)</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Vav Airflow: Min: 0.40 cfm/sq ft</td> <td style="border: none;">Max: 100.00 % Clg Airflow</td> </tr> <tr> <td style="border: none;">Vav Sched: Available (100%)</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Supply: 1,500.00 To be calculated</td> <td style="border: none;">1,500.00 To be calculated</td> </tr> <tr> <td style="border: none;">Aux Supply: To be calculated</td> <td style="border: none;">To be calculated</td> </tr> <tr> <td style="border: none;">Room Exhaust:</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Rm Exh Sched: Available (100%)</td> <td style="border: none;"></td> </tr> </table>	<u>Cooling</u>	<u>Heating</u>	Vent Type: None	None	Vent Value: 420.00 cfm	420.00 cfm	Vent Schedule: Wyoming UV DCV		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 1,500.00 To be calculated	1,500.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
<u>Cooling</u>	<u>Heating</u>																											
Vent Type: None	None																											
Vent Value: 420.00 cfm	420.00 cfm																											
Vent Schedule: Wyoming UV DCV																												
Infil Type: HEAPY	HEAPY																											
Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall																											
Infil Schedule: Available (100%)																												
Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow																											
Vav Sched: Available (100%)																												
Supply: 1,500.00 To be calculated	1,500.00 To be calculated																											
Aux Supply: To be calculated	To be calculated																											
Room Exhaust:																												
Rm Exh Sched: Available (100%)																												

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² -°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass U Value Btu/h-ft ² -°F	External Shading	Internal Shading	Adj	Pct	Pct	Pct	Rad	
												Temp/ Grnd Refl	Sen/ Cool Tmp	Rm/ Heat Tmp	Ret/ Perm Len	Frc/ Loss Coef	
E	416 ft ²	90	0 Wyoming Existing	0.1059	0.90												
Opening - 1			Window			90.1-07 4a Window	82	0.46	0.55	Overhang - None	None	0.00					
Misc Load 1	800.000 W		Misc - Elementary School			Electricity							100	100		0	60.00

Room Description: 217 - CLASSROOM

Zone Description: No Zone

System Description: System 5 Flr 2

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 735 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"><u>Cooling</u></td> <td style="width: 50%; border: none;"><u>Heating</u></td> </tr> <tr> <td style="border: none;">Vent Type: None</td> <td style="border: none;">None</td> </tr> <tr> <td style="border: none;">Vent Value: 425.00 cfm</td> <td style="border: none;">425.00 cfm</td> </tr> <tr> <td style="border: none;">Vent Schedule: Wyoming UV DCV</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Infil Type: HEAPY</td> <td style="border: none;">HEAPY</td> </tr> <tr> <td style="border: none;">Infil Value: 0.00 air changes/hr</td> <td style="border: none;">0.08 cfm/sq ft of wall</td> </tr> <tr> <td style="border: none;">Infil Schedule: Available (100%)</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Vav Airflow: Min: 0.40 cfm/sq ft</td> <td style="border: none;">Max: 100.00 % Clg Airflow</td> </tr> <tr> <td style="border: none;">Vav Sched: Available (100%)</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Supply: 1,500.00 To be calculated</td> <td style="border: none;">1,500.00 To be calculated</td> </tr> <tr> <td style="border: none;">Aux Supply: To be calculated</td> <td style="border: none;">To be calculated</td> </tr> <tr> <td style="border: none;">Room Exhaust:</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Rm Exh Sched: Available (100%)</td> <td style="border: none;"></td> </tr> </table>	<u>Cooling</u>	<u>Heating</u>	Vent Type: None	None	Vent Value: 425.00 cfm	425.00 cfm	Vent Schedule: Wyoming UV DCV		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 1,500.00 To be calculated	1,500.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
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Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² -°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass U Value Btu/h-ft ² -°F	External Shading	Internal Shading	Adj	Pct	Pct	Pct	Rad	
												Temp/ Grnd Refl	Sen/ Cool Tmp	Rm/ Heat Tmp	Ret/ Perm Len	Frc/ Loss Coef	
E	432 ft ²	90	0 Wyoming Existing	0.1059	0.90												
Opening - 1			Window			90.1-07 4a Window	85	0.46	0.55	Overhang - None	None	0.00					
Misc Load 1	800.000 W		Misc - Elementary School			Electricity							100	100		0	60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 218 - CLASSROOM

Zone Description: No Zone

System Description: System 5 Flr 2

<u>GENERAL INFORMATION</u>	<u>PEOPLE</u>	<u>AIRFLOW INFORMATION</u>																										
Floor Area: 745 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;"><u>Cooling</u></td> <td style="width: 50%;"><u>Heating</u></td> </tr> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 425.00 cfm</td> <td>425.00 cfm</td> </tr> <tr> <td>Vent Schedule: Wyoming UV DCV</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 0.40 cfm/sq ft</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 1,500.00 To be calculated</td> <td>1,500.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </table>	<u>Cooling</u>	<u>Heating</u>	Vent Type: None	None	Vent Value: 425.00 cfm	425.00 cfm	Vent Schedule: Wyoming UV DCV		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 1,500.00 To be calculated	1,500.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
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Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² -°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
W windows	332 ft ²	270	0 Wyoming Existing	0.1059	0.90	90.1-07 4a Window	91	0.46	0.55	Overhang - None	None	0.00				
Misc Load 1	800.000 W		Misc - Elementary School			Electricity							100	100	0	60.00

Room Description: 219 - CLASSROOM

Zone Description: No Zone

System Description: System 5 Flr 2

<u>GENERAL INFORMATION</u>	<u>PEOPLE</u>	<u>AIRFLOW INFORMATION</u>																										
Floor Area: 735 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;"><u>Cooling</u></td> <td style="width: 50%;"><u>Heating</u></td> </tr> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 425.00 cfm</td> <td>425.00 cfm</td> </tr> <tr> <td>Vent Schedule: Wyoming UV DCV</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 0.40 cfm/sq ft</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 1,500.00 To be calculated</td> <td>1,500.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </table>	<u>Cooling</u>	<u>Heating</u>	Vent Type: None	None	Vent Value: 425.00 cfm	425.00 cfm	Vent Schedule: Wyoming UV DCV		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 1,500.00 To be calculated	1,500.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
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Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² -°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
W window	325 ft ²	270	0 Wyoming Existing	0.1059	0.90	90.1-07 4a Window	89	0.46	0.55	Overhang - None	None	0.00				
Misc Load 1	800.000 W		Misc - Elementary School			Electricity							100	100	0	60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 224 - CLASSROOM

Zone Description: No Zone

System Description: System 5 Flr 2

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 500 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 17 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 300.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 1,250.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 300.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,250.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading					
W window	260 ft ²	270	0	Wyoming Existing Window	0.1059	0.90	90.1-07 4a Window	71	0.46	0.55	Overhang - None	None	0.00			
Misc Load 1	800.000 W			Misc - Elementary School			Electricity							100	100	0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 229 - AUDITORIUM

Zone Description: No Zone

System Description: System 5 Flr 2

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 3,028 ft ² Fir-Fir Height: 30.0 ft Plenum Height: 5.0 ft Height Above Fir: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Auditorium # of People: 300 People People Sensible: 225 Btu/h People Latent : 105 Btu/h People Schedule: People - Elementary Gym Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elementary Gymnasium Lighting Amount: 2.6 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 2,102.00 cfm Vent Schedule: Wyoming AHU3 DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 6,000.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 2,102.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 6,000.00 To be calculated To be calculated

Description	Area/Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² ·°F	Alpha	Glass				Adj Temp/Grnd Refl	Pct Sen/Cool Tmp	Pct Rm/Heat Tmp	Pct Ret/Perm Len	Rad Frc/Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² ·°F						External Shading
Roof - 1	3,028 ft ²	0	90	Wyoming Existing	0.0783	0.90										
E	825 ft ²	90	0	Wyoming Existing	0.1059	0.90										
Opening - 1				Window			90.1-07 4a Window	163	0.46	0.55	Overhang - None	None	0.00			
W	825 ft ²	270	0	Wyoming Existing	0.1059	0.90										
Opening - 1				Window			90.1-07 4a Window	226	0.46	0.55	Overhang - None	None	0.00			
Misc Load 1	2.000 W/sq ft			Misc - Elementary School			Electricity							100	100	0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 230 - STAGE

Zone Description: No Zone

System Description: System 5 Flr 2

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 1,224 ft ² Flr-Flr Height: 30.0 ft Plenum Height: 5.0 ft Height Above Flr: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: Gymnasium # of People: 25 People People Sensible: 275 Btu/h People Latent : 275 Btu/h People Schedule: People - Elementary Gym Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elementary Gymnasium Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"><u>Cooling</u></td> <td style="width: 50%; border: none;"><u>Heating</u></td> </tr> <tr> <td style="border: none;">Vent Type: None</td> <td style="border: none;">None</td> </tr> <tr> <td style="border: none;">Vent Value: 408.00 cfm</td> <td style="border: none;">408.00 cfm</td> </tr> <tr> <td style="border: none;">Vent Schedule: Wyoming AHU3 DCV</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Infil Type: HEAPY</td> <td style="border: none;">HEAPY</td> </tr> <tr> <td style="border: none;">Infil Value: 0.00 air changes/hr</td> <td style="border: none;">0.08 cfm/sq ft of wall</td> </tr> <tr> <td style="border: none;">Infil Schedule: Available (100%)</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Vav Airflow: Min: 0.40 cfm/sq ft</td> <td style="border: none;">Max: 100.00 % Clg Airflow</td> </tr> <tr> <td style="border: none;">Vav Sched: Available (100%)</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Supply: 2,500.00 To be calculated</td> <td style="border: none;">2,500.00 To be calculated</td> </tr> <tr> <td style="border: none;">Aux Supply: To be calculated</td> <td style="border: none;">To be calculated</td> </tr> <tr> <td style="border: none;">Room Exhaust:</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Rm Exh Sched: Available (100%)</td> <td style="border: none;"></td> </tr> </table>	<u>Cooling</u>	<u>Heating</u>	Vent Type: None	None	Vent Value: 408.00 cfm	408.00 cfm	Vent Schedule: Wyoming AHU3 DCV		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 2,500.00 To be calculated	2,500.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
<u>Cooling</u>	<u>Heating</u>																											
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Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
						Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
Roof - 1	1,224 ft ²	0	90 Wyoming Existing	0.0783	0.90		0							
									Overhang - None	None				

Room Description: 233 - CLASSROOM

Zone Description: No Zone

System Description: System 5 Flr 2

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 480 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: Classroom # of People: 17 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"><u>Cooling</u></td> <td style="width: 50%; border: none;"><u>Heating</u></td> </tr> <tr> <td style="border: none;">Vent Type: None</td> <td style="border: none;">None</td> </tr> <tr> <td style="border: none;">Vent Value: 285.00 cfm</td> <td style="border: none;">285.00 cfm</td> </tr> <tr> <td style="border: none;">Vent Schedule: Wyoming UV DCV</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Infil Type: HEAPY</td> <td style="border: none;">HEAPY</td> </tr> <tr> <td style="border: none;">Infil Value: 0.00 air changes/hr</td> <td style="border: none;">0.08 cfm/sq ft of wall</td> </tr> <tr> <td style="border: none;">Infil Schedule: Available (100%)</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Vav Airflow: Min: 0.40 cfm/sq ft</td> <td style="border: none;">Max: 100.00 % Clg Airflow</td> </tr> <tr> <td style="border: none;">Vav Sched: Available (100%)</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Supply: 1,250.00 To be calculated</td> <td style="border: none;">1,250.00 To be calculated</td> </tr> <tr> <td style="border: none;">Aux Supply: To be calculated</td> <td style="border: none;">To be calculated</td> </tr> <tr> <td style="border: none;">Room Exhaust:</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Rm Exh Sched: Available (100%)</td> <td style="border: none;"></td> </tr> </table>	<u>Cooling</u>	<u>Heating</u>	Vent Type: None	None	Vent Value: 285.00 cfm	285.00 cfm	Vent Schedule: Wyoming UV DCV		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 1,250.00 To be calculated	1,250.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
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Supply: 1,250.00 To be calculated	1,250.00 To be calculated																											
Aux Supply: To be calculated	To be calculated																											
Room Exhaust:																												
Rm Exh Sched: Available (100%)																												

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
						Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F						External Shading
S	241 ft ²	180	0 Wyoming Existing	0.1059	0.90										
Opening - 1			Window			90.1-07 4a Window	38	0.46	0.55	Overhang - None	None	0.00			
Misc Load 1	800.000 W		Misc - Elementary School			Electricity							100	100	0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 238 - CLASSROOM

Zone Description: No Zone

System Description: System 5 Flr 2

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION		
Floor Area: 526 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: Classroom # of People: 15 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"> Cooling Vent Type: None Vent Value: 270.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 1,000.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%) </td> <td style="width: 50%; border: none;"> Heating None 270.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,000.00 To be calculated To be calculated </td> </tr> </table>	Cooling Vent Type: None Vent Value: 270.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 1,000.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)	Heating None 270.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,000.00 To be calculated To be calculated
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Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² -°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass U Value Btu/h-ft ² -°F	External Shading	Internal Shading	Adj	Pct	Pct	Pct	Rad	
												Temp/ Grnd Refl	Sen/ Cool Tmp	Rm/ Heat Tmp	Ret/ Perm Len	Frc/ Loss Coef	
E	143 ft ²	90	0 Wyoming Existing	0.1059	0.90												
Opening - 1			Window			90.1-07 4a Window	28	0.46	0.55	Overhang - None	None	0.00					
Misc Load 1	800.000 W		Misc - Elementary School			Electricity							100	100		0	60.00

Room Description: 239 - CLASSROOM

Zone Description: No Zone

System Description: System 5 Flr 2

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION		
Floor Area: 763 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"> Cooling Vent Type: None Vent Value: 420.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 1,500.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%) </td> <td style="width: 50%; border: none;"> Heating None 420.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,500.00 To be calculated To be calculated </td> </tr> </table>	Cooling Vent Type: None Vent Value: 420.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 1,500.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)	Heating None 420.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,500.00 To be calculated To be calculated
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Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² -°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass U Value Btu/h-ft ² -°F	External Shading	Internal Shading	Adj	Pct	Pct	Pct	Rad	
												Temp/ Grnd Refl	Sen/ Cool Tmp	Rm/ Heat Tmp	Ret/ Perm Len	Frc/ Loss Coef	
E	345 ft ²	90	0 Wyoming Existing	0.1059	0.90												
window			Window			90.1-07 4a Window	68	0.46	0.55	Overhang - None	None	0.00					
Misc Load 1	800.000 W		Misc - Elementary School			Electricity							100	100		0	60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 240 - CLASSROOM

Zone Description: No Zone

System Description: System 5 Flr 2

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 705 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"><u>Cooling</u></td> <td style="width: 50%; border: none;"><u>Heating</u></td> </tr> <tr> <td style="border: none;">Vent Type: None</td> <td style="border: none;">None</td> </tr> <tr> <td style="border: none;">Vent Value: 420.00 cfm</td> <td style="border: none;">420.00 cfm</td> </tr> <tr> <td style="border: none;">Vent Schedule: Wyoming UV DCV</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Infil Type: HEAPY</td> <td style="border: none;">HEAPY</td> </tr> <tr> <td style="border: none;">Infil Value: 0.00 air changes/hr</td> <td style="border: none;">0.08 cfm/sq ft of wall</td> </tr> <tr> <td style="border: none;">Infil Schedule: Available (100%)</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Vav Airflow: Min: 0.40 cfm/sq ft</td> <td style="border: none;">Max: 100.00 % Clg Airflow</td> </tr> <tr> <td style="border: none;">Vav Sched: Available (100%)</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Supply: 1,500.00 To be calculated</td> <td style="border: none;">1,500.00 To be calculated</td> </tr> <tr> <td style="border: none;">Aux Supply: To be calculated</td> <td style="border: none;">To be calculated</td> </tr> <tr> <td style="border: none;">Room Exhaust:</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Rm Exh Sched: Available (100%)</td> <td style="border: none;"></td> </tr> </table>	<u>Cooling</u>	<u>Heating</u>	Vent Type: None	None	Vent Value: 420.00 cfm	420.00 cfm	Vent Schedule: Wyoming UV DCV		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 1,500.00 To be calculated	1,500.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
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Aux Supply: To be calculated	To be calculated																											
Room Exhaust:																												
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Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² -°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
W window	416 ft ²	270	0 Wyoming Existing	0.1059	0.90	90.1-07 4a Window	114	0.46	0.55	Overhang - None	None	0.00				
Misc Load 1	800.000 W		Misc - Elementary School			Electricity							100	100	0	60.00

Room Description: 243 - CLASSROOM

Zone Description: No Zone

System Description: System 5 Flr 2

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 735 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"><u>Cooling</u></td> <td style="width: 50%; border: none;"><u>Heating</u></td> </tr> <tr> <td style="border: none;">Vent Type: None</td> <td style="border: none;">None</td> </tr> <tr> <td style="border: none;">Vent Value: 425.00 cfm</td> <td style="border: none;">425.00 cfm</td> </tr> <tr> <td style="border: none;">Vent Schedule: Wyoming UV DCV</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Infil Type: HEAPY</td> <td style="border: none;">HEAPY</td> </tr> <tr> <td style="border: none;">Infil Value: 0.00 air changes/hr</td> <td style="border: none;">0.08 cfm/sq ft of wall</td> </tr> <tr> <td style="border: none;">Infil Schedule: Available (100%)</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Vav Airflow: Min: 0.40 cfm/sq ft</td> <td style="border: none;">Max: 100.00 % Clg Airflow</td> </tr> <tr> <td style="border: none;">Vav Sched: Available (100%)</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Supply: 1,500.00 To be calculated</td> <td style="border: none;">1,500.00 To be calculated</td> </tr> <tr> <td style="border: none;">Aux Supply: To be calculated</td> <td style="border: none;">To be calculated</td> </tr> <tr> <td style="border: none;">Room Exhaust:</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Rm Exh Sched: Available (100%)</td> <td style="border: none;"></td> </tr> </table>	<u>Cooling</u>	<u>Heating</u>	Vent Type: None	None	Vent Value: 425.00 cfm	425.00 cfm	Vent Schedule: Wyoming UV DCV		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 1,500.00 To be calculated	1,500.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
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Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² -°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
W window	426 ft ²	270	0 Wyoming Existing	0.1059	0.90	90.1-07 4a Window	117	0.46	0.55	Overhang - None	None	0.00				
Misc Load 1	800.000 W		Misc - Elementary School			Electricity							100	100	0	60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 245 - CLASSROOM

Zone Description: No Zone

System Description: System 5 Flr 2

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 785 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 430.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 2,000.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 430.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 2,000.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h·ft ² ·°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h·ft ² ·°F	External Shading					
W	488 ft ²	270	0	Wyoming Existing	0.1059	0.90										
Opening - 1				Window			90.1-07 4a Window	134	0.46	0.55	Overhang - None	None	0.00			
N	312 ft ²	0	0	Wyoming Existing	0.1059	0.90										
Opening - 1				Window			90.1-07 4a Window	80	0.46	0.55	Overhang - None	None	0.00			
Misc Load 1	800.000 W			Misc - Elementary School			Electricity							100	100	0 60.00
Partition - 1	200 ft ²			0.75" Gyp Frame	0.3880									Adjacent Room: 243 - CLASSROOM		

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 246 - CLASSROOM

Zone Description: No Zone

System Description: System 5 Flr 2

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 770 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 425.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 1,500.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 425.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,500.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading					
N windows	390 ft ²	0	0	Wyoming Existing Window	0.1059	0.90	90.1-07 4a Window	100	0.46	0.55	Overhang - None	None	0.00			
W Opening - 1	104 ft ²	270	0	Wyoming Existing Window	0.1059	0.90	90.1-07 4a Window	28	0.46	0.55	Overhang - None	None	0.00			
Misc Load 1	800.000 W			Misc - Elementary School			Electricity							100	100	0 60.00
Partition - 1	200 ft ²			0.75" Gyp Frame	0.3880									Adjacent Room: 247 - CLASSROOM		

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 247 - CLASSROOM

Zone Description: No Zone

System Description: System 5 Flr 2

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 730 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 425.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 1,500.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 425.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,500.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading					
N	374 ft ²	0	0	Wyoming Existing	0.1059	0.90										
Opening - 1				Window			90.1-07 4a Window	96	0.46	0.55	Overhang - None	None	0.00			
Misc Load 1	800.000 W			Misc - Elementary School			Electricity							100	100	0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 301 - CLASSROOM

Zone Description: No Zone

System Description: System 5 Flr 3

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 740 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 425.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 1,500.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 425.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 150.00 % Htg Airflow To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h·ft ² ·°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h·ft ² ·°F	External Shading					
Roof - 1	740 ft ²	0	90	Wyoming Existing	0.0783	0.90										
W	410 ft ²	270	0	Wyoming Existing	0.1059	0.90										
Opening - 1				Window			90.1-07 4a Window	112	0.46	0.55	Overhang - None	None	0.00			
S	319 ft ²	180	0	Wyoming Existing	0.1059	0.90										
Opening - 1				Window			90.1-07 4a Window	51	0.46	0.55	Overhang - None	None	0.00			
Misc Load 1	800.000 W			Misc - Elementary School			Electricity							100	100	0 60.00
Partition - 1	100 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 302 - SMALL GROU
Partition - 2	100 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 304 - CLASSROOM

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 304 - CLASSROOM

Zone Description: No Zone

System Description: System 5 Flr 3

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 721 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 420.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 1,500.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 420.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,500.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F						External Shading
Roof - 1	721 ft ²	0	90	Wyoming Existing	0.0783	0.90										
W	406 ft ²	270	0	Wyoming Existing	0.1059	0.90										
Opening - 1				Window			90.1-07 4a Window	111	0.46	0.55	Overhang - None	None	0.00			
Misc Load 1	800.000 W			Misc - Elementary School			Electricity						100	100	0	60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 306 - CLASSROOM

Zone Description: No Zone

System Description: System 5 Flr 3

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 780 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 430.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 2,000.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 430.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 200.00 % Htg Airflow To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading						Internal Shading
Roof - 1	780 ft ²	0	90	Wyoming Existing	0.0783	0.90											
N	332 ft ²	0	0	Wyoming Existing	0.1059	0.90											
Opening - 1				Window			90.1-07 4a Window	85	0.46	0.55	Overhang - None	None	0.00				
W	491 ft ²	270	0	Wyoming Existing	0.1059	0.90											
Opening - 1				Window			90.1-07 4a Window	134	0.46	0.55	Overhang - None	None	0.00				
Misc Load 1	800.000 W			Misc - Elementary School			Electricity							100	100	0	60.00
Partition - 1	200 ft ²			0.75* Gyp Frame	0.3880												Adjacent Room: 304 - CLASSROOM
Partition - 2	200 ft ²			0.75* Gyp Frame	0.3880												Adjacent Room: 305 - SMALL GROU

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 307 - CLASSROOM

Zone Description: No Zone

System Description: System 5 Flr 3

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 729 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 425.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 1,500.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 425.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 150.00 % Htg Airflow To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F						External Shading
Roof - 1	729 ft ²	0	90	Wyoming Existing	0.0783	0.90										
N	390 ft ²	0	0	Wyoming Existing	0.1059	0.90										
Opening - 1				Window			90.1-07 4a Window	100	0.46	0.55	Overhang - None	None	0.00			
W	104 ft ²	270	0	Wyoming Existing	0.1059	0.90										
Opening - 1				Window			90.1-07 4a Window	28	0.46	0.55	Overhang - None	None	0.00			
Misc Load 1	800.000 W			Misc - Elementary School			Electricity							100	100	0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 310 - CLASSROOM

Zone Description: No Zone

System Description: System 5 Flr 3

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 751 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 425.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 1,500.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 425.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 150.00 % Htg Airflow To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
Roof - 1	751 ft ²	0	90	Wyoming Existing	0.0783	0.90									
N	397 ft ²	0	0	Wyoming Existing	0.1059	0.90									
Opening - 1				Window			90.1-07 4a Window	102	0.46	0.55	Overhang - None	None	0.00		
Misc Load 1	800.000 W			Misc - Elementary School			Electricity						100	100	0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 313 - CLASSROOM

Zone Description: No Zone

System Description: System 5 Flr 3

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 611 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 365.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 1,250.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 365.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 150.00 % Htg Airflow To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F						External Shading
Roof - 1	611 ft ²	0	90	Wyoming Existing	0.0783	0.90										
N	397 ft ²	0	0	Wyoming Existing	0.1059	0.90										
Opening - 1				Window			90.1-07 4a Window	102	0.46	0.55	Overhang - None	None	0.00			
Misc Load 1	800.000 W			Misc - Elementary School			Electricity							100	100	0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 319 - CLASSROOM

Zone Description: No Zone

System Description: System 5 Flr 3

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 722 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 425.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 1,500.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 425.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 150.00 % Htg Airflow To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F						External Shading
Roof - 1	722 ft ²	0	90	Wyoming Existing	0.0783	0.90										
N windows	419 ft ²	0	0	Wyoming Existing	0.1059	0.90										
Misc Load 1	800.000 W			Misc - Elementary School			90.1-07 4a Window	108	0.46	0.55	Overhang - None	None	0.00			
							Electricity							100	100	0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 321 - CLASSROOM

Zone Description: No Zone

System Description: System 5 Flr 3

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 743 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 425.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 1,500.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 425.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 150.00 % Htg Airflow To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F						External Shading
Roof - 1	743 ft ²	0	90	Wyoming Existing	0.0783	0.90										
E	78 ft ²	90	0	Wyoming Existing	0.1059	0.90										
Opening - 1				Window			90.1-07 4a Window	15	0.46	0.55	Overhang - None	None	0.00			
N	423 ft ²	0	0	Wyoming Existing	0.1059	0.90										
Opening - 1				Window			90.1-07 4a Window	109	0.46	0.55	Overhang - None	None	0.00			
Misc Load 1	800.000 W			Misc - Elementary School			Electricity							100	100	0 60.00
Partition - 1	150 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 323 - SMALL GROU
Partition - 2	150 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 324 - CLASSROOM

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 322 - CLASSROOM

Zone Description: No Zone

System Description: System 5 Flr 3

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 791 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 430.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 2,000.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 430.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 150.00 % Htg Airflow To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F						External Shading
Roof - 1	791 ft ²	0	90	Wyoming Existing	0.0783	0.90										
E	481 ft ²	90	0	Wyoming Existing	0.1059	0.90										
Opening - 1				Window			90.1-07 4a Window	95	0.46	0.55	Overhang - None	None	0.00			
N	319 ft ²	0	0	Wyoming Existing	0.1059	0.90										
Opening - 1				Window			90.1-07 4a Window	82	0.46	0.55	Overhang - None	None	0.00			
Misc Load 1	800.000 W			Misc - Elementary School			Electricity							100	100	0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 324 - CLASSROOM

Zone Description: No Zone

System Description: System 5 Flr 3

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 740 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 425.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 1,500.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 425.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,500.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
Roof - 1	740 ft ²	0	90	Wyoming Existing	0.0783	0.90									
E	426 ft ²	90	0	Wyoming Existing	0.1059	0.90									
Opening - 1				Window			90.1-07 4a Window	84	0.46	0.55	Overhang - None	None	0.00		
Misc Load 1	800.000 W			Misc - Elementary School			Electricity						100	100	0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 326 - CLASSROOM

Zone Description: No Zone

System Description: System 5 Flr 3

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 753 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 425.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 1,500.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 425.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,500.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
Roof - 1	753 ft ²	0	90	Wyoming Existing	0.0783	0.90									
E windows	426 ft ²	90	0	Wyoming Existing Window	0.1059	0.90	90.1-07 4a Window	84	0.46	0.55	Overhang - None	None	0.00		
Misc Load 1	800.000 W			Misc - Elementary School			Electricity						100	100	0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 327 - CLASSROOM

Zone Description: No Zone

System Description: System 5 Flr 3

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 1,138 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 485.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 1,500.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 485.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 225.00 % Htg Airflow To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef		
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F						External Shading	Internal Shading
Roof - 1	1,138 ft ²	0	90	Wyoming Existing	0.0783	0.90											
W	507 ft ²	270	0	Wyoming Existing	0.1059	0.90											
Opening - 1				Window			90.1-07 4a Window	139	0.46	0.55	Overhang - None	None	0.00				
S	299 ft ²	180	0	Wyoming Existing	0.1059	0.90											
Opening - 1				Window			90.1-07 4a Window	48	0.46	0.55	Overhang - None	None	0.00				
Misc Load 1	800.000 W			Misc - Elementary School			Electricity							100	100	0	60.00
Partition - 1	100 ft ²			0.75* Gyp Frame	0.3880												Adjacent Room: 329 - OFFICE
Partition - 2	100 ft ²			0.75* Gyp Frame	0.3880												Adjacent Room: 330 - STORAGE

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 336 - CLASSROOM

Zone Description: No Zone

System Description: System 5 Flr 3

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 504 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 335.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 1,250.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 335.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,250.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
Roof - 1	504 ft ²	0	90	Wyoming Existing	0.0783	0.90									
S	260 ft ²	180	0	Wyoming Existing	0.1059	0.90									
Opening - 1				Window			90.1-07 4a Window	42	0.46	0.55	Overhang - None	None	0.00		
Misc Load 1	800.000 W			Misc - Elementary School			Electricity						100	100	0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 341 - CLASSROOM

Zone Description: No Zone

System Description: System 5 Flr 3

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 459 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 335.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 1,250.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 335.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,250.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
Roof - 1	459 ft ²	0	90	Wyoming Existing	0.0783	0.90									
S	273 ft ²	180	0	Wyoming Existing	0.1059	0.90									
Opening - 1				Window			90.1-07 4a Window	44	0.46	0.55	Overhang - None	None	0.00		
Misc Load 1	800.000 W			Misc - Elementary School			Electricity						100	100	0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 350 - CLASSROOM

Zone Description: No Zone

System Description: System 5 Flr 3

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 960 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 460.00 cfm Vent Schedule: Wyoming UV DCV Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 1,500.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 460.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 125.00 % Htg Airflow To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F						External Shading
Roof - 1	960 ft ²	0	90	Wyoming Existing	0.0783	0.90										
E windows	455 ft ²	90	0	Wyoming Existing	0.1059	0.90										
Misc Load 1	800.000 W			Misc - Elementary School			90.1-07 4a Window	73	0.46	0.55	Overhang - None	None	0.00			
							Electricity							100	100	0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 161 - OFFICE

Zone Description: FC1-01

System Description: Unassigned

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 331 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: General Office Space # of People: 143 sq ft/person People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.1 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 40.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 490.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 40.00 cfm 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 490.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading					
W	247 ft ²	270	0	Wyoming Existing	0.1059	0.90										
Opening - 1				Window			90.1-07 4a Window	68	0.46	0.55	Overhang - None	None	0.00			
Misc Load 1	300.000 W			Misc - Elementary School			Electricity							100	100	0 60.00
Partition - 1	150 ft ²			0.75* Gyp Frame	0.3880									Adjacent Room: 159 - OFFICE		
Partition - 2	150 ft ²			0.75* Gyp Frame	0.3880									Adjacent Room: 157 - CORRIDOR		
Floor - 1																19 0.73

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 159 - OFFICE

Zone Description: FC1-02

System Description: Unassigned

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 193 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: General Office Space # of People: 143 sq ft/person People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.1 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 22.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 660.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 22.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 660.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading					
W	153 ft ²	270	0	Wyoming Existing	0.1059	0.90										
Opening - 1				Window			90.1-07 4a Window	42	0.46	0.55	Overhang - None	None	0.00			
Misc Load 1	300.000 W			Misc - Elementary School			Electricity							100	100	0 60.00
Floor - 1																12 0.73

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 155 - OFFICE

Zone Description: FC1-03

System Description: Unassigned

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 124 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: General Office Space # of People: 143 sq ft/person People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.1 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 17.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 650.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 17.00 cfm 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 650.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading					
W	98 ft ²	270	0	Wyoming Existing	0.1059	0.90										
Opening - 1				Window			90.1-07 4a Window	27	0.46	0.55	Overhang - None	None	0.00			
Misc Load 1	300.000 W			Misc - Elementary School			Electricity							100	100	0 60.00
Partition - 1	150 ft ²			0.75* Gyp Frame	0.3880									Adjacent Room: 158 - WORKROOM		
Partition - 2	150 ft ²			0.75* Gyp Frame	0.3880									Adjacent Room: 154 - RECEPTION		
Floor - 1																8 0.73

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 160 - CORRIDOR

Zone Description: FC1-03

System Description: Unassigned

<u>GENERAL INFORMATION</u>	<u>PEOPLE</u>	<u>AIRFLOW INFORMATION</u>																										
Floor Area: 400 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 90.1 Zone 4a/5a Slab Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.1 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;"><u>Cooling</u></td> <td style="width: 50%;"><u>Heating</u></td> </tr> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 32.00 cfm</td> <td>32.00 cfm</td> </tr> <tr> <td>Vent Schedule: Wyoming FC MUA</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 0.40 cfm/sq ft</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 85.00 To be calculated</td> <td>85.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </table>	<u>Cooling</u>	<u>Heating</u>	Vent Type: None	None	Vent Value: 32.00 cfm	32.00 cfm	Vent Schedule: Wyoming FC MUA		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 85.00 To be calculated	85.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
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Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² -°F	Alpha	Type / Energy Type	Glass			External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Shade Coef	U Value Btu/h-ft ² -°F	Area ft ²							
Roof - 1	400 ft ²	0	90 Wyoming Existing	0.0783	0.90					Overhang - None	None					
Partition - 1	100 ft ²		0.75* Gyp Frame	1.0000												Adjacent Room: 154 - RECEPTION
Partition - 2	100 ft ²		0.75* Gyp Frame	0.3880												Adjacent Room: 155 - OFFICE
Partition - 3	200 ft ²		0.75* Gyp Frame	0.3880												Adjacent Room: 158 - WORKROOM

Room Description: 142 - STORAGE

Zone Description: FC1-04

System Description: Unassigned

<u>GENERAL INFORMATION</u>	<u>PEOPLE</u>	<u>AIRFLOW INFORMATION</u>																										
Floor Area: 50 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8* LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.8 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;"><u>Cooling</u></td> <td style="width: 50%;"><u>Heating</u></td> </tr> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 0.00 cfm</td> <td>0.00 cfm</td> </tr> <tr> <td>Vent Schedule: Wyoming FC MUA</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 0.40 cfm/sq ft</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 10.00 To be calculated</td> <td>10.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </table>	<u>Cooling</u>	<u>Heating</u>	Vent Type: None	None	Vent Value: 0.00 cfm	0.00 cfm	Vent Schedule: Wyoming FC MUA		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 10.00 To be calculated	10.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
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Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² -°F	Alpha	Type / Energy Type	Glass			External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Shade Coef	U Value Btu/h-ft ² -°F	Area ft ²							

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 150 - OFFICE

Zone Description: FC1-05

System Description: Unassigned

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 137 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: General Office Space # of People: 1 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.1 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 18.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 140.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 18.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 140.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading						Internal Shading
Misc Load 1	100.000 W			Misc - Elementary School			Electricity							100	100	0	60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 153 - OPEN OFFICE

Zone Description: FC1-05

System Description: Unassigned

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 272 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: General Office Space # of People: 2 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.1 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 36.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 195.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 36.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 195.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Type / Energy Type	Glass			External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
								Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F							
Misc Load 1	300.000 W			Misc - Elementary School			Electricity										
Partition - 1	100 ft ²			0.75* Gyp Frame	0.3880												Adjacent Room: 151 - OFFICE
Partition - 2	100 ft ²			0.75* Gyp Frame	0.3880												Adjacent Room: 149 - STORAGE
Partition - 3	100 ft ²			0.75* Gyp Frame	0.3880												Adjacent Room: 150 - OFFICE
Partition - 4	100 ft ²			0.75* Gyp Frame	0.3880												Adjacent Room: 152 - OFFICE
Partition - 5	100 ft ²			0.75* Gyp Frame	0.3880												Adjacent Room: 1003 - STAIR A

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 151 - OFFICE

Zone Description: FC1-06

System Description: Unassigned

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 153 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: General Office Space # of People: 1 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.1 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 19.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 615.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 19.00 cfm 0.08 cfm/sq ft of wall HEAPY Max: 100.00 % Clg Airflow 615.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading					
E	202 ft ²	90	0	Wyoming Existing	0.1059	0.90										
Opening - 1				Window			90.1-07 4a Window	40	0.46	0.55	Overhang - None	None	0.00			
Misc Load 1	300.000 W			Misc - Elementary School			Electricity							100	100	0 60.00
Floor - 1																16 0.73

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 152 - OFFICE

Zone Description: FC1-06

System Description: Unassigned

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 115 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: General Office Space # of People: 1 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.1 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Cooling</th> <th style="text-align: center;">Heating</th> </tr> </thead> <tbody> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 16.00 cfm</td> <td>16.00 cfm</td> </tr> <tr> <td>Vent Schedule: Wyoming FC MUA</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 0.40 cfm/sq ft</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 180.00 To be calculated</td> <td>180.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </tbody> </table>	Cooling	Heating	Vent Type: None	None	Vent Value: 16.00 cfm	16.00 cfm	Vent Schedule: Wyoming FC MUA		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 180.00 To be calculated	180.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
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E	150 ft ²	90	0 Wyoming Existing	0.1059	0.90										
Opening - 1			Window			90.1-07 4a Window	29	0.46	0.55	Overhang - None	None	0.00			
Misc Load 1	300.000 W		Misc - Elementary School			Electricity							100	100	0 60.00
Floor - 1															12 0.73

Room Description: 165 - VIDEO LAB

Zone Description: FC1-07

System Description: Unassigned

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 101 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: Classroom # of People: 1 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Cooling</th> <th style="text-align: center;">Heating</th> </tr> </thead> <tbody> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 15.00 cfm</td> <td>15.00 cfm</td> </tr> <tr> <td>Vent Schedule: Wyoming FC MUA</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 0.40 cfm/sq ft</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 365.00 To be calculated</td> <td>365.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </tbody> </table>	Cooling	Heating	Vent Type: None	None	Vent Value: 15.00 cfm	15.00 cfm	Vent Schedule: Wyoming FC MUA		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 365.00 To be calculated	365.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
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						Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² ·°F	External Shading					
Misc Load 1	1,160.000 W		Misc - Elementary School			Electricity							100	100	0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 166 - OFFICE

Zone Description: FC1-07

System Description: Unassigned

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 94 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: General Office Space # of People: 1 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.1 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 14.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 200.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 14.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 200.00 % Htg Airflow To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading						Internal Shading
N window	104 ft ²	0	0	Wyoming Existing	0.1059	0.90	90.1-07 4a Window	27	0.46	0.55	Overhang - None	None	0.00				
Misc Load 1	300.000 W			Misc - Elementary School			Electricity							100	100	0	60.00
Partition - 1	100 ft ²			0.75* Gyp Frame	0.3880									Adjacent Room: 165 - VIDEO LAB			
Floor - 1																8	0.73

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 104 - BOYS TOILET

Zone Description: FC1-08

System Description: Unassigned

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 250 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 78.0 °F / 83.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.9 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 0.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 295.00 To be calculated Aux Supply: To be calculated Room Exhaust: 560.00 cfm Rm Exh Sched: Wyoming General Heating None 0.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 200.00 % Htg Airflow To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h·ft ² ·°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h·ft ² ·°F	External Shading					
E	59 ft ²	90	0	Wyoming Existing	0.1059	0.90										
Opening - 1				Window			90.1-07 4a Window	12	0.46	0.55	Overhang - None	None	0.00			
N	120 ft ²	0	0	Wyoming Existing	0.1059	0.90										
Opening - 1				Window			90.1-07 4a Window	31	0.46	0.55	Overhang - None	None	0.00			
Partition - 1	200 ft ²			0.75* Gyp Frame	0.3880											
Partition - 2	100 ft ²			0.75* Gyp Frame	0.3880											
Partition - 3	100 ft ²			0.75* Gyp Frame	0.3880											
Floor - 1																14 0.73

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 124 - STORAGE

Zone Description: FC1-08

System Description: Unassigned

<u>GENERAL INFORMATION</u>	<u>PEOPLE</u>	<u>AIRFLOW INFORMATION</u>																										
Floor Area: 140 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.8 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;"><u>Cooling</u></td> <td style="width: 50%;"><u>Heating</u></td> </tr> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 0.00 cfm</td> <td>0.00 cfm</td> </tr> <tr> <td>Vent Schedule: Wyoming FC MUA</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 0.40 cfm/sq ft</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 140.00 To be calculated</td> <td>200.00 % Htg Airflow</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </table>	<u>Cooling</u>	<u>Heating</u>	Vent Type: None	None	Vent Value: 0.00 cfm	0.00 cfm	Vent Schedule: Wyoming FC MUA		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 140.00 To be calculated	200.00 % Htg Airflow	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
<u>Cooling</u>	<u>Heating</u>																											
Vent Type: None	None																											
Vent Value: 0.00 cfm	0.00 cfm																											
Vent Schedule: Wyoming FC MUA																												
Infil Type: HEAPY	HEAPY																											
Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall																											
Infil Schedule: Available (100%)																												
Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow																											
Vav Sched: Available (100%)																												
Supply: 140.00 To be calculated	200.00 % Htg Airflow																											
Aux Supply: To be calculated	To be calculated																											
Room Exhaust:																												
Rm Exh Sched: Available (100%)																												

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² ·°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass U Value Btu/h-ft ² ·°F	External Shading	Internal Shading	Adj	Pct	Pct	Pct	Rad	
												Temp/ Grnd Refl	Sen/ Cool Tmp	Rm/ Heat Tmp	Ret/ Perm Len	Frc/ Loss Coef	
N window Floor - 1	78 ft ²	0	0 Wyoming Existing Window	0.1059	0.90	90.1-07 4a Window	20	0.46	0.55	Overhang - None	None	0.00					6 0.73

Room Description: 138 - JANITORS

Zone Description: FC1-08

System Description: Unassigned

<u>GENERAL INFORMATION</u>	<u>PEOPLE</u>	<u>AIRFLOW INFORMATION</u>																										
Floor Area: 25 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.9 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;"><u>Cooling</u></td> <td style="width: 50%;"><u>Heating</u></td> </tr> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 0.00 cfm</td> <td>0.00 cfm</td> </tr> <tr> <td>Vent Schedule: Wyoming FC MUA</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 0.40 cfm/sq ft</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 5.00 To be calculated</td> <td>5.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust: 25.00 cfm</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Wyoming General</td> <td></td> </tr> </table>	<u>Cooling</u>	<u>Heating</u>	Vent Type: None	None	Vent Value: 0.00 cfm	0.00 cfm	Vent Schedule: Wyoming FC MUA		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 5.00 To be calculated	5.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust: 25.00 cfm		Rm Exh Sched: Wyoming General	
<u>Cooling</u>	<u>Heating</u>																											
Vent Type: None	None																											
Vent Value: 0.00 cfm	0.00 cfm																											
Vent Schedule: Wyoming FC MUA																												
Infil Type: HEAPY	HEAPY																											
Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall																											
Infil Schedule: Available (100%)																												
Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow																											
Vav Sched: Available (100%)																												
Supply: 5.00 To be calculated	5.00 To be calculated																											
Aux Supply: To be calculated	To be calculated																											
Room Exhaust: 25.00 cfm																												
Rm Exh Sched: Wyoming General																												

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² ·°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass U Value Btu/h-ft ² ·°F	External Shading	Internal Shading	Adj	Pct	Pct	Pct	Rad
												Temp/ Grnd Refl	Sen/ Cool Tmp	Rm/ Heat Tmp	Ret/ Perm Len	Frc/ Loss Coef

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 139a - CORRIDOR

Zone Description: FC1-08

System Description: Unassigned

<u>GENERAL INFORMATION</u>				<u>PEOPLE</u>				<u>AIRFLOW INFORMATION</u>				
Floor Area: 615 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned				People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person <u>LIGHTS</u> Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.5 W/sq ft Ballast Factor: 1.0				<u>Cooling</u> Vent Type: None Vent Value: 50.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 130.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%) <u>Heating</u> None 50.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 130.00 To be calculated To be calculated				

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² ·°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass		External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
									U Value Btu/h-ft ² ·°F	External Shading							

Room Description: 140 - JAN CLOSET

Zone Description: FC1-08

System Description: Unassigned

<u>GENERAL INFORMATION</u>				<u>PEOPLE</u>				<u>AIRFLOW INFORMATION</u>				
Floor Area: 25 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned				People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person <u>LIGHTS</u> Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.9 W/sq ft Ballast Factor: 1.0				<u>Cooling</u> Vent Type: None Vent Value: 0.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 5.00 To be calculated Aux Supply: To be calculated Room Exhaust: 25.00 cfm Rm Exh Sched: Wyoming General <u>Heating</u> None 0.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 5.00 To be calculated To be calculated				

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² ·°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass		External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
									U Value Btu/h-ft ² ·°F	External Shading							

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 167 - GIRLS TOILET

Zone Description: FC1-08

System Description: Unassigned

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 255 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 78.0 °F / 83.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.9 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 0.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 300.00 To be calculated Aux Supply: To be calculated Room Exhaust: 420.00 cfm Rm Exh Sched: Wyoming General
		Heating None 0.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 200.00 % Htg Airflow To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading					
N	120 ft ²	0	0	Wyoming Existing	0.1059	0.90										
Opening - 1				Window			90.1-07 4a Window	31	0.46	0.55	Overhang - None	None	0.00			
W	65 ft ²	270	0	Wyoming Existing	0.1059	0.90										
Opening - 1				Window			90.1-07 4a Window	18	0.46	0.55	Overhang - None	None	0.00			
Partition - 1	200 ft ²			0.75* Gyp Frame	0.3880											
Partition - 2	200 ft ²			0.75* Gyp Frame	0.3880											
Floor - 1																14 0.73

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 122 - ART GALLERY

Zone Description: FC1-09

System Description: Unassigned

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 757 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: Library # of People: 12 People People Sensible: 245 Btu/h People Latent : 155 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Cooling</th> <th style="text-align: center;">Heating</th> </tr> </thead> <tbody> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 378.00 cfm</td> <td>378.00 cfm</td> </tr> <tr> <td>Vent Schedule: Wyoming FC MUA</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 0.40 cfm/sq ft</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 640.00 To be calculated</td> <td>640.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </tbody> </table>	Cooling	Heating	Vent Type: None	None	Vent Value: 378.00 cfm	378.00 cfm	Vent Schedule: Wyoming FC MUA		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 640.00 To be calculated	640.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
Cooling	Heating																											
Vent Type: None	None																											
Vent Value: 378.00 cfm	378.00 cfm																											
Vent Schedule: Wyoming FC MUA																												
Infil Type: HEAPY	HEAPY																											
Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall																											
Infil Schedule: Available (100%)																												
Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow																											
Vav Sched: Available (100%)																												
Supply: 640.00 To be calculated	640.00 To be calculated																											
Aux Supply: To be calculated	To be calculated																											
Room Exhaust:																												
Rm Exh Sched: Available (100%)																												

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² ·°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass		External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Pct Frc/ Loss Coef	
									U Value Btu/h-ft ² ·°F	U Value Btu/h-ft ² ·°F								
Misc Load 1	775.000 W		Misc - Elementary School			Electricity									100	100	0	60.00

Room Description: 139b - CORRIDOR

Zone Description: FC1-09

System Description: Unassigned

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 500 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.5 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Cooling</th> <th style="text-align: center;">Heating</th> </tr> </thead> <tbody> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 41.00 cfm</td> <td>41.00 cfm</td> </tr> <tr> <td>Vent Schedule: Wyoming FC MUA</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 0.40 cfm/sq ft</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 105.00 To be calculated</td> <td>105.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </tbody> </table>	Cooling	Heating	Vent Type: None	None	Vent Value: 41.00 cfm	41.00 cfm	Vent Schedule: Wyoming FC MUA		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 105.00 To be calculated	105.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
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Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² ·°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass		External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Pct Frc/ Loss Coef
									U Value Btu/h-ft ² ·°F	U Value Btu/h-ft ² ·°F							

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 108 - STORAGE

Zone Description: FC1-10

System Description: Unassigned

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 100 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.8 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 0.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 450.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 0.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 200.00 % Htg Airflow To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h·ft ² ·°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h·ft ² ·°F	External Shading					
E Opening - 1	104 ft ²	90	0	Wyoming Existing Window	0.1059	0.90	90.1-07 4a Window	20	0.46	0.55	Overhang - None	None	0.00			
N Opening - 1	150 ft ²	0	0	Wyoming Existing Window	0.1059	0.90	90.1-07 4a Window	38	0.46	0.55	Overhang - None	None	0.00			
Partition - 1	120 ft ²			0.75* Gyp Frame	0.3880											
Partition - 2	90 ft ²			0.75* Gyp Frame	0.3880											
Floor - 1																20 0.73

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 115 - KILN

Zone Description: FC1-12

System Description: Unassigned

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 87 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: General Office Space # of People: 143 sq ft/person People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 0.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 165.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 0.00 cfm 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 165.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading					
E	137 ft ²	90	0	Wyoming Existing	0.1059	0.90										
Opening - 1				Window			90.1-07 4a Window	27	0.46	0.55	Overhang - None	None	0.00			
Misc Load 1	300.000 W			Misc - Elementary School			Electricity							100	100	0 60.00
Partition - 1	100 ft ²			0.75* Gyp Frame	0.3880									Adjacent Room: 113 - ART CLASSRC		
Partition - 2	100 ft ²			0.75* Gyp Frame	0.3880									Adjacent Room: 117 - MULTI-HANDI		
Floor - 1														11		0.73

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 126 - STORAGE

Zone Description: FC1-13

System Description: Unassigned

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																							
Floor Area: 344 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.8 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"> <table style="width: 100%; border: none;"> <tr><th style="text-align: center;">Cooling</th></tr> <tr><td>Vent Type: None</td></tr> <tr><td>Vent Value: 0.00 cfm</td></tr> <tr><td>Vent Schedule: Wyoming FC MUA</td></tr> <tr><td>Infil Type: HEAPY</td></tr> <tr><td>Infil Value: 0.00 air changes/hr</td></tr> <tr><td>Infil Schedule: Available (100%)</td></tr> <tr><td>Vav Airflow: Min: 0.40 cfm/sq ft</td></tr> <tr><td>Vav Sched: Available (100%)</td></tr> <tr><td>Supply: 290.00 To be calculated</td></tr> <tr><td>Aux Supply: To be calculated</td></tr> <tr><td>Room Exhaust:</td></tr> <tr><td>Rm Exh Sched: Available (100%)</td></tr> </table> </td> <td style="width: 50%; border: none;"> <table style="width: 100%; border: none;"> <tr><th style="text-align: center;">Heating</th></tr> <tr><td>None</td></tr> <tr><td>0.00 cfm</td></tr> <tr><td>HEAPY</td></tr> <tr><td>0.08 cfm/sq ft of wall</td></tr> <tr><td>Max: 100.00 % Clg Airflow</td></tr> <tr><td>290.00 To be calculated</td></tr> <tr><td>To be calculated</td></tr> </table> </td> </tr> </table>	<table style="width: 100%; border: none;"> <tr><th style="text-align: center;">Cooling</th></tr> <tr><td>Vent Type: None</td></tr> <tr><td>Vent Value: 0.00 cfm</td></tr> <tr><td>Vent Schedule: Wyoming FC MUA</td></tr> <tr><td>Infil Type: HEAPY</td></tr> <tr><td>Infil Value: 0.00 air changes/hr</td></tr> <tr><td>Infil Schedule: Available (100%)</td></tr> <tr><td>Vav Airflow: Min: 0.40 cfm/sq ft</td></tr> <tr><td>Vav Sched: Available (100%)</td></tr> <tr><td>Supply: 290.00 To be calculated</td></tr> <tr><td>Aux Supply: To be calculated</td></tr> <tr><td>Room Exhaust:</td></tr> <tr><td>Rm Exh Sched: Available (100%)</td></tr> </table>	Cooling	Vent Type: None	Vent Value: 0.00 cfm	Vent Schedule: Wyoming FC MUA	Infil Type: HEAPY	Infil Value: 0.00 air changes/hr	Infil Schedule: Available (100%)	Vav Airflow: Min: 0.40 cfm/sq ft	Vav Sched: Available (100%)	Supply: 290.00 To be calculated	Aux Supply: To be calculated	Room Exhaust:	Rm Exh Sched: Available (100%)	<table style="width: 100%; border: none;"> <tr><th style="text-align: center;">Heating</th></tr> <tr><td>None</td></tr> <tr><td>0.00 cfm</td></tr> <tr><td>HEAPY</td></tr> <tr><td>0.08 cfm/sq ft of wall</td></tr> <tr><td>Max: 100.00 % Clg Airflow</td></tr> <tr><td>290.00 To be calculated</td></tr> <tr><td>To be calculated</td></tr> </table>	Heating	None	0.00 cfm	HEAPY	0.08 cfm/sq ft of wall	Max: 100.00 % Clg Airflow	290.00 To be calculated	To be calculated
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E	234 ft ²	90	0 Wyoming Existing	0.1059	0.90													
Opening - 1			Window			90.1-07 4a Window	46	0.46	0.55	Overhang - None	None		0.00					
Partition - 1	300 ft ²		0.75* Gyp Frame	0.3880														Adjacent Room: 135 - BOILER ROOM
Floor - 1																		18 0.73

Room Description: 130 - STORAGE

Zone Description: FC1-13

System Description: Unassigned

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																							
Floor Area: 442 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.8 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"> <table style="width: 100%; border: none;"> <tr><th style="text-align: center;">Cooling</th></tr> <tr><td>Vent Type: None</td></tr> <tr><td>Vent Value: 0.00 cfm</td></tr> <tr><td>Vent Schedule: Wyoming FC MUA</td></tr> <tr><td>Infil Type: HEAPY</td></tr> <tr><td>Infil Value: 0.00 air changes/hr</td></tr> <tr><td>Infil Schedule: Available (100%)</td></tr> <tr><td>Vav Airflow: Min: 0.40 cfm/sq ft</td></tr> <tr><td>Vav Sched: Available (100%)</td></tr> <tr><td>Supply: 90.00 To be calculated</td></tr> <tr><td>Aux Supply: To be calculated</td></tr> <tr><td>Room Exhaust:</td></tr> <tr><td>Rm Exh Sched: Available (100%)</td></tr> </table> </td> <td style="width: 50%; border: none;"> <table style="width: 100%; border: none;"> <tr><th style="text-align: center;">Heating</th></tr> <tr><td>None</td></tr> <tr><td>0.00 cfm</td></tr> <tr><td>HEAPY</td></tr> <tr><td>0.08 cfm/sq ft of wall</td></tr> <tr><td>Max: 100.00 % Clg Airflow</td></tr> <tr><td>90.00 To be calculated</td></tr> <tr><td>To be calculated</td></tr> </table> </td> </tr> </table>	<table style="width: 100%; border: none;"> <tr><th style="text-align: center;">Cooling</th></tr> <tr><td>Vent Type: None</td></tr> <tr><td>Vent Value: 0.00 cfm</td></tr> <tr><td>Vent Schedule: Wyoming FC MUA</td></tr> <tr><td>Infil Type: HEAPY</td></tr> <tr><td>Infil Value: 0.00 air changes/hr</td></tr> <tr><td>Infil Schedule: Available (100%)</td></tr> <tr><td>Vav Airflow: Min: 0.40 cfm/sq ft</td></tr> <tr><td>Vav Sched: Available (100%)</td></tr> <tr><td>Supply: 90.00 To be calculated</td></tr> <tr><td>Aux Supply: To be calculated</td></tr> <tr><td>Room Exhaust:</td></tr> <tr><td>Rm Exh Sched: Available (100%)</td></tr> </table>	Cooling	Vent Type: None	Vent Value: 0.00 cfm	Vent Schedule: Wyoming FC MUA	Infil Type: HEAPY	Infil Value: 0.00 air changes/hr	Infil Schedule: Available (100%)	Vav Airflow: Min: 0.40 cfm/sq ft	Vav Sched: Available (100%)	Supply: 90.00 To be calculated	Aux Supply: To be calculated	Room Exhaust:	Rm Exh Sched: Available (100%)	<table style="width: 100%; border: none;"> <tr><th style="text-align: center;">Heating</th></tr> <tr><td>None</td></tr> <tr><td>0.00 cfm</td></tr> <tr><td>HEAPY</td></tr> <tr><td>0.08 cfm/sq ft of wall</td></tr> <tr><td>Max: 100.00 % Clg Airflow</td></tr> <tr><td>90.00 To be calculated</td></tr> <tr><td>To be calculated</td></tr> </table>	Heating	None	0.00 cfm	HEAPY	0.08 cfm/sq ft of wall	Max: 100.00 % Clg Airflow	90.00 To be calculated	To be calculated
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									U Value Btu/h-ft ² ·°F	Internal Shading							

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 134 - DRESSING ROOM

Zone Description: FC1-14

System Description: Unassigned

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 425 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 15 People People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.9 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 0.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 430.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 0.00 cfm 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 430.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef			
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F						External Shading	Internal Shading	
W Opening - 1 Floor - 1	234 ft ²	270	0	Wyoming Existing Window	0.1059	0.90	90.1-07 4a Window	64	0.46	0.55	Overhang - None	None	0.00				18	0.73

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 101 - FOYER

Zone Description: FC1-15

System Description: Unassigned

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 722 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.3 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 58.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 590.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 58.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 175.00 % Htg Airflow To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
N	406 ft ²	0	0	Wyoming Existing	0.1059	0.90									
Opening - 1				Door			Standard Door	110	0.00	0.20	Overhang - None	None	0.00		
Opening - 2				Window			90.1-07 4a Window	104	0.46	0.55	Overhang - None	None	0.00		
Partition - 1	150 ft ²			0.75* Gyp Frame	1.0000										Adjacent Room: 139a - CORRIDOR
Partition - 2	150 ft ²			0.75* Gyp Frame	1.0000										Adjacent Room: 139b - CORRIDOR
Floor - 1															31 0.73

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 131 - ELEC

Zone Description: FC1-16

System Description: Unassigned

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 152 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 85.0 °F / 88.0 °F Design Htg DB / Drift Point: 70.0 °F / 55.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Room Floor Multiplier: 1 Humidistat Location:None Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.5 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Cooling</th> <th style="text-align: center;">Heating</th> </tr> </thead> <tbody> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 0.00 cfm</td> <td>0.00 cfm</td> </tr> <tr> <td>Vent Schedule: Wyoming FC MUA</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 0.40 cfm/sq ft</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 1,800.00 To be calculated</td> <td>5.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </tbody> </table>	Cooling	Heating	Vent Type: None	None	Vent Value: 0.00 cfm	0.00 cfm	Vent Schedule: Wyoming FC MUA		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 1,800.00 To be calculated	5.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
Cooling	Heating																											
Vent Type: None	None																											
Vent Value: 0.00 cfm	0.00 cfm																											
Vent Schedule: Wyoming FC MUA																												
Infil Type: HEAPY	HEAPY																											
Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall																											
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Supply: 1,800.00 To be calculated	5.00 To be calculated																											
Aux Supply: To be calculated	To be calculated																											
Room Exhaust:																												
Rm Exh Sched: Available (100%)																												

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h·ft ² ·°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass		External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
									U Value Btu/h·ft ² ·°F									
Misc Load 1	40,000.000 Btuh		Misc - Elementary School			Electricity									100	100	0	60.00

Room Description: 141a - PROFESSIONAL

Zone Description: FC1-17

System Description: Unassigned

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 605 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: Classroom # of People: 25 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Fluorescent, hung below ceiling, 100% load to space Fixture Type: SUSFLUOR % Load to RA: 0 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Cooling</th> <th style="text-align: center;">Heating</th> </tr> </thead> <tbody> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 395.00 cfm</td> <td>395.00 cfm</td> </tr> <tr> <td>Vent Schedule: Wyoming FC MUA</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 0.40 cfm/sq ft</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 910.00 To be calculated</td> <td>910.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </tbody> </table>	Cooling	Heating	Vent Type: None	None	Vent Value: 395.00 cfm	395.00 cfm	Vent Schedule: Wyoming FC MUA		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 910.00 To be calculated	910.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
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Supply: 910.00 To be calculated	910.00 To be calculated																											
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Room Exhaust:																												
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Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h·ft ² ·°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass		External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
									U Value Btu/h·ft ² ·°F									
Misc Load 1	800.000 W		Misc - Elementary School			Electricity									100	100	0	60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 237 - CORRIDOR

Zone Description: FC2-01

System Description: Unassigned

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 170 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.5 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 14.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 40.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 14.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 40.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² ·°F	Alpha	Glass				External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
						Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² ·°F							
Partition - 1	400 ft ²		0.75* Gyp Frame	0.3880												Adjacent Room: 236 - EXTENDED LE
Partition - 2	100 ft ²		0.75* Gyp Frame	0.3880												Adjacent Room: 242A - CORRIDOR

Room Description: 241 - SMALL GROUP

Zone Description: FC2-01

System Description: Unassigned

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 100 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: Conference Room # of People: 4 People People Sensible: 245 Btu/h People Latent : 155 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.1 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 15.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 150.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 15.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 150.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² ·°F	Alpha	Glass				External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
						Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² ·°F							
Misc Load 1	155.000 W		Misc - Elementary School													100 100 0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 242A - CORRIDOR

Zone Description: FC2-01

System Description: Unassigned

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 475 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.5 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 38.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 100.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 38.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 100.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading					
Partition - 1	300 ft ²			0.75* Gyp Frame	1.0000											Adjacent Room: 236 - EXTENDED LE
Partition - 2	200 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 245 - CLASSROOM
Partition - 3	200 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 243 - CLASSROOM
Partition - 4	200 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 244 - SMALL GROU

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 242B - CORRIDOR

Zone Description: FC2-02

System Description: Unassigned

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 475 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.5 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Cooling</th> <th style="text-align: center;">Heating</th> </tr> </thead> <tbody> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 38.00 cfm</td> <td>38.00 cfm</td> </tr> <tr> <td>Vent Schedule: Wyoming FC MUA</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 0.40 cfm/sq ft</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 100.00 To be calculated</td> <td>100.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </tbody> </table>	Cooling	Heating	Vent Type: None	None	Vent Value: 38.00 cfm	38.00 cfm	Vent Schedule: Wyoming FC MUA		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 100.00 To be calculated	100.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
Cooling	Heating																											
Vent Type: None	None																											
Vent Value: 38.00 cfm	38.00 cfm																											
Vent Schedule: Wyoming FC MUA																												
Infil Type: HEAPY	HEAPY																											
Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall																											
Infil Schedule: Available (100%)																												
Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow																											
Vav Sched: Available (100%)																												
Supply: 100.00 To be calculated	100.00 To be calculated																											
Aux Supply: To be calculated	To be calculated																											
Room Exhaust:																												
Rm Exh Sched: Available (100%)																												

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
						Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
Partition - 1	200 ft ²		0.75* Gyp Frame	0.3880										Adjacent Room: 238 - CLASSROOM
Partition - 2	200 ft ²		0.75* Gyp Frame	0.3880										Adjacent Room: 239 - CLASSROOM
Partition - 3	200 ft ²		0.75* Gyp Frame	0.3880										Adjacent Room: 240 - CLASSROOM
Partition - 4	200 ft ²		0.75* Gyp Frame	0.3880										Adjacent Room: 243 - CLASSROOM

Room Description: 244 - SMALL GROUP ROOM

Zone Description: FC2-02

System Description: Unassigned

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 98 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: Conference Room # of People: 4 People People Sensible: 245 Btu/h People Latent : 155 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.1 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Cooling</th> <th style="text-align: center;">Heating</th> </tr> </thead> <tbody> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 15.00 cfm</td> <td>15.00 cfm</td> </tr> <tr> <td>Vent Schedule: Wyoming FC MUA</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 0.40 cfm/sq ft</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 150.00 To be calculated</td> <td>150.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </tbody> </table>	Cooling	Heating	Vent Type: None	None	Vent Value: 15.00 cfm	15.00 cfm	Vent Schedule: Wyoming FC MUA		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 150.00 To be calculated	150.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
Cooling	Heating																											
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Vav Sched: Available (100%)																												
Supply: 150.00 To be calculated	150.00 To be calculated																											
Aux Supply: To be calculated	To be calculated																											
Room Exhaust:																												
Rm Exh Sched: Available (100%)																												

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
						Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
Misc Load 1	155.000 W		Misc - Elementary School											100 100 0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 236 - EXTENDED LEARNING AREA

Zone Description: FC2-03

System Description: Unassigned

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 838 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: General Office Space # of People: 143 sq ft/person People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 102.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 1,150.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 102.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,150.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h·ft ² ·°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef			
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h·ft ² ·°F						External Shading	Internal Shading	
Misc Load 1	1,600.000 W			Misc - Elementary School			Electricity								100	100	0	60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 248 - CORRIDOR

Zone Description: FC2-03

System Description: Unassigned

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 730 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.5 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 59.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 155.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 59.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 155.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h·ft ² ·°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h·ft ² ·°F	External Shading					
Partition - 1	200 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 246 - CLASSROOM
Partition - 2	200 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 247 - CLASSROOM
Partition - 3	200 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 233 - CLASSROOM
Partition - 4	200 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 236 - EXTENDED LE
Partition - 5	200 ft ²			0.75* Gyp Frame	1.0000											Adjacent Room: 201 - STAIR HALL
Partition - 6	200 ft ²			0.75* Gyp Frame	1.0000											Adjacent Room: 242A - CORRIDOR

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 234 - SMALL GROUP ROOM

Zone Description: FC2-04

System Description: Unassigned

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 133 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Conference Room # of People: 4 People People Sensible: 245 Btu/h People Latent : 155 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Cooling</th> <th style="text-align: center;">Heating</th> </tr> </thead> <tbody> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 18.00 cfm</td> <td>18.00 cfm</td> </tr> <tr> <td>Vent Schedule: Wyoming FC MUA</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 0.40 cfm/sq ft</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 160.00 To be calculated</td> <td>160.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </tbody> </table>	Cooling	Heating	Vent Type: None	None	Vent Value: 18.00 cfm	18.00 cfm	Vent Schedule: Wyoming FC MUA		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 160.00 To be calculated	160.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
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Supply: 160.00 To be calculated	160.00 To be calculated																											
Aux Supply: To be calculated	To be calculated																											
Room Exhaust:																												
Rm Exh Sched: Available (100%)																												

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h·ft ² ·°F	Alpha	Type / Energy Type	Glass		External Shading	Internal Shading	Adj Temp/ Grnd Ref	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Shade Coef	U Value Btu/h·ft ² ·°F							
Misc Load 1	155.000 W		Misc - Elementary School			Electricity							100	100	0 60.00

Room Description: 235 - SMALL GROUP ROOM

Zone Description: FC2-04

System Description: Unassigned

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 133 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: Conference Room # of People: 4 People People Sensible: 245 Btu/h People Latent : 155 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Cooling</th> <th style="text-align: center;">Heating</th> </tr> </thead> <tbody> <tr> <td>Vent Type: None</td> <td>None</td> </tr> <tr> <td>Vent Value: 18.00 cfm</td> <td>18.00 cfm</td> </tr> <tr> <td>Vent Schedule: Wyoming FC MUA</td> <td></td> </tr> <tr> <td>Infil Type: HEAPY</td> <td>HEAPY</td> </tr> <tr> <td>Infil Value: 0.00 air changes/hr</td> <td>0.08 cfm/sq ft of wall</td> </tr> <tr> <td>Infil Schedule: Available (100%)</td> <td></td> </tr> <tr> <td>Vav Airflow: Min: 0.40 cfm/sq ft</td> <td>Max: 100.00 % Clg Airflow</td> </tr> <tr> <td>Vav Sched: Available (100%)</td> <td></td> </tr> <tr> <td>Supply: 405.00 To be calculated</td> <td>405.00 To be calculated</td> </tr> <tr> <td>Aux Supply: To be calculated</td> <td>To be calculated</td> </tr> <tr> <td>Room Exhaust:</td> <td></td> </tr> <tr> <td>Rm Exh Sched: Available (100%)</td> <td></td> </tr> </tbody> </table>	Cooling	Heating	Vent Type: None	None	Vent Value: 18.00 cfm	18.00 cfm	Vent Schedule: Wyoming FC MUA		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 405.00 To be calculated	405.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
Cooling	Heating																											
Vent Type: None	None																											
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Vav Sched: Available (100%)																												
Supply: 405.00 To be calculated	405.00 To be calculated																											
Aux Supply: To be calculated	To be calculated																											
Room Exhaust:																												
Rm Exh Sched: Available (100%)																												

Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h·ft ² ·°F	Alpha	Type / Energy Type	Glass		External Shading	Internal Shading	Adj Temp/ Grnd Ref	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Shade Coef	U Value Btu/h·ft ² ·°F							
S	52 ft ²	180	0 Wyoming Existing	0.1059	0.90										
Opening - 1			Window			90.1-07 4a Window	8	0.46	0.55	Overhang - None	None	0.00			
Misc Load 1	155.000 W		Misc - Elementary School			Electricity							100	100	0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 203 - TLT

Zone Description: FC2-05

System Description: Unassigned

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 40 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 78.0 °F / 83.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.9 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 0.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 260.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 0.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 200.00 % Htg Airflow To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading					
N window	104 ft ²	0	0	Wyoming Existing Window	0.1059	0.90	90.1-07 4a Window	27	0.46	0.55	Overhang - None	None	0.00			
W Opening - 1	52 ft ²	270	0	Wyoming Existing Window	0.1059	0.90	90.1-07 4a Window	14	0.46	0.55	Overhang - None	None	0.00			
Partition - 1	80 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 204 - WORKROOM
Partition - 2	80 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 202 - VESTIBULE

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 250 - GIRLS TLT

Zone Description: FC2-05

System Description: Unassigned

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 208 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 78.0 °F / 83.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.9 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 0.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 240.00 To be calculated Aux Supply: To be calculated Room Exhaust: 420.00 cfm Rm Exh Sched: Wyoming General
		Heating None 0.00 cfm 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 200.00 % Htg Airflow To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading					
N window	130 ft ²	0	0	Wyoming Existing Window	0.1059	0.90	90.1-07 4a Window	33	0.46	0.55	Overhang - None	None	0.00			
Partition - 1	100 ft ²			0.75* Gyp Frame	0.3880											
Partition - 2	100 ft ²			0.75* Gyp Frame	0.3880											

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 204 - WORKROOM

Zone Description: FC2-06

System Description: Unassigned

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 292 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: General Office Space # of People: 2 People People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.1 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 37.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 1,065.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 37.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 1,065.00 To be calculated To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F					
N	351 ft ²	0	0	Wyoming Existing	0.1059	0.90									
Opening - 1				Window			90.1-07 4a Window	90	0.46	0.55	Overhang - None	None	0.00		
Misc Load 1	2,600.000 W			Misc - Elementary School			Electricity						100	100	0 60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 205 - STORAGE

Zone Description: FC2-06

System Description: Unassigned

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 94 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.8 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 0.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 305.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 0.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 200.00 % Htg Airflow To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass					Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F	External Shading					
N	124 ft ²	0	0	Wyoming Existing	0.1059	0.90										
Opening - 1				Window			90.1-07 4a Window	32	0.46	0.55	Overhang - None	None	0.00			
E	52 ft ²	90	0	Wyoming Existing	0.1059	0.90										
Opening - 1				Window			90.1-07 4a Window	10	0.46	0.55	Overhang - None	None	0.00			
Partition - 1	100 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 209 - CORRIDOR
Partition - 2	100 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 204 - WORKROOM

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 206 - BOYS TLT

Zone Description: FC2-07

System Description: Unassigned

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																							
Floor Area: 194 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 78.0 °F / 83.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.9 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"> <table style="width: 100%; border: none;"> <tr><th style="text-align: center;">Cooling</th></tr> <tr><td>Vent Type: None</td></tr> <tr><td>Vent Value: 0.00 cfm</td></tr> <tr><td>Vent Schedule: Wyoming FC MUA</td></tr> <tr><td>Infil Type: HEAPY</td></tr> <tr><td>Infil Value: 0.00 air changes/hr</td></tr> <tr><td>Infil Schedule: Available (100%)</td></tr> <tr><td>Vav Airflow: Min: 0.40 cfm/sq ft</td></tr> <tr><td>Vav Sched: Available (100%)</td></tr> <tr><td>Supply: 235.00 To be calculated</td></tr> <tr><td>Aux Supply: To be calculated</td></tr> <tr><td>Room Exhaust: 560.00 cfm</td></tr> <tr><td>Rm Exh Sched: Wyoming General</td></tr> </table> </td> <td style="width: 50%; border: none;"> <table style="width: 100%; border: none;"> <tr><th style="text-align: center;">Heating</th></tr> <tr><td>None</td></tr> <tr><td>0.00 cfm</td></tr> <tr><td>HEAPY</td></tr> <tr><td>0.08 cfm/sq ft of wall</td></tr> <tr><td>Max: 100.00 % Clg Airflow</td></tr> <tr><td>200.00 % Htg Airflow</td></tr> <tr><td>To be calculated</td></tr> </table> </td> </tr> </table>	<table style="width: 100%; border: none;"> <tr><th style="text-align: center;">Cooling</th></tr> <tr><td>Vent Type: None</td></tr> <tr><td>Vent Value: 0.00 cfm</td></tr> <tr><td>Vent Schedule: Wyoming FC MUA</td></tr> <tr><td>Infil Type: HEAPY</td></tr> <tr><td>Infil Value: 0.00 air changes/hr</td></tr> <tr><td>Infil Schedule: Available (100%)</td></tr> <tr><td>Vav Airflow: Min: 0.40 cfm/sq ft</td></tr> <tr><td>Vav Sched: Available (100%)</td></tr> <tr><td>Supply: 235.00 To be calculated</td></tr> <tr><td>Aux Supply: To be calculated</td></tr> <tr><td>Room Exhaust: 560.00 cfm</td></tr> <tr><td>Rm Exh Sched: Wyoming General</td></tr> </table>	Cooling	Vent Type: None	Vent Value: 0.00 cfm	Vent Schedule: Wyoming FC MUA	Infil Type: HEAPY	Infil Value: 0.00 air changes/hr	Infil Schedule: Available (100%)	Vav Airflow: Min: 0.40 cfm/sq ft	Vav Sched: Available (100%)	Supply: 235.00 To be calculated	Aux Supply: To be calculated	Room Exhaust: 560.00 cfm	Rm Exh Sched: Wyoming General	<table style="width: 100%; border: none;"> <tr><th style="text-align: center;">Heating</th></tr> <tr><td>None</td></tr> <tr><td>0.00 cfm</td></tr> <tr><td>HEAPY</td></tr> <tr><td>0.08 cfm/sq ft of wall</td></tr> <tr><td>Max: 100.00 % Clg Airflow</td></tr> <tr><td>200.00 % Htg Airflow</td></tr> <tr><td>To be calculated</td></tr> </table>	Heating	None	0.00 cfm	HEAPY	0.08 cfm/sq ft of wall	Max: 100.00 % Clg Airflow	200.00 % Htg Airflow	To be calculated
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N	130 ft ²	0	0 Wyoming Existing	0.1059	0.90													
Opening - 1			Window			90.1-07 4a Window	33	0.46	0.55	Overhang - None	None		0.00					
Partition - 1	100 ft ²		0.75* Gyp Frame	0.3880														Adjacent Room: 210 - CLASSROOM
Partition - 2	100 ft ²		0.75* Gyp Frame	0.3880														Adjacent Room: 207 - STAFF TLT

Room Description: 207 - STAFF TLT

Zone Description: FC2-07

System Description: Unassigned

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																							
Floor Area: 36 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 78.0 °F / 83.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.9 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"> <table style="width: 100%; border: none;"> <tr><th style="text-align: center;">Cooling</th></tr> <tr><td>Vent Type: None</td></tr> <tr><td>Vent Value: 0.00 cfm</td></tr> <tr><td>Vent Schedule: Wyoming FC MUA</td></tr> <tr><td>Infil Type: HEAPY</td></tr> <tr><td>Infil Value: 0.00 air changes/hr</td></tr> <tr><td>Infil Schedule: Available (100%)</td></tr> <tr><td>Vav Airflow: Min: 0.40 cfm/sq ft</td></tr> <tr><td>Vav Sched: Available (100%)</td></tr> <tr><td>Supply: 10.00 To be calculated</td></tr> <tr><td>Aux Supply: To be calculated</td></tr> <tr><td>Room Exhaust: 70.00 cfm</td></tr> <tr><td>Rm Exh Sched: Wyoming General</td></tr> </table> </td> <td style="width: 50%; border: none;"> <table style="width: 100%; border: none;"> <tr><th style="text-align: center;">Heating</th></tr> <tr><td>None</td></tr> <tr><td>0.00 cfm</td></tr> <tr><td>HEAPY</td></tr> <tr><td>0.08 cfm/sq ft of wall</td></tr> <tr><td>Max: 100.00 % Clg Airflow</td></tr> <tr><td>150.00 % Htg Airflow</td></tr> <tr><td>To be calculated</td></tr> </table> </td> </tr> </table>	<table style="width: 100%; border: none;"> <tr><th style="text-align: center;">Cooling</th></tr> <tr><td>Vent Type: None</td></tr> <tr><td>Vent Value: 0.00 cfm</td></tr> <tr><td>Vent Schedule: Wyoming FC MUA</td></tr> <tr><td>Infil Type: HEAPY</td></tr> <tr><td>Infil Value: 0.00 air changes/hr</td></tr> <tr><td>Infil Schedule: Available (100%)</td></tr> <tr><td>Vav Airflow: Min: 0.40 cfm/sq ft</td></tr> <tr><td>Vav Sched: Available (100%)</td></tr> <tr><td>Supply: 10.00 To be calculated</td></tr> <tr><td>Aux Supply: To be calculated</td></tr> <tr><td>Room Exhaust: 70.00 cfm</td></tr> <tr><td>Rm Exh Sched: Wyoming General</td></tr> </table>	Cooling	Vent Type: None	Vent Value: 0.00 cfm	Vent Schedule: Wyoming FC MUA	Infil Type: HEAPY	Infil Value: 0.00 air changes/hr	Infil Schedule: Available (100%)	Vav Airflow: Min: 0.40 cfm/sq ft	Vav Sched: Available (100%)	Supply: 10.00 To be calculated	Aux Supply: To be calculated	Room Exhaust: 70.00 cfm	Rm Exh Sched: Wyoming General	<table style="width: 100%; border: none;"> <tr><th style="text-align: center;">Heating</th></tr> <tr><td>None</td></tr> <tr><td>0.00 cfm</td></tr> <tr><td>HEAPY</td></tr> <tr><td>0.08 cfm/sq ft of wall</td></tr> <tr><td>Max: 100.00 % Clg Airflow</td></tr> <tr><td>150.00 % Htg Airflow</td></tr> <tr><td>To be calculated</td></tr> </table>	Heating	None	0.00 cfm	HEAPY	0.08 cfm/sq ft of wall	Max: 100.00 % Clg Airflow	150.00 % Htg Airflow	To be calculated
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ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 226 - STORAGE

Zone Description: FC2-08

System Description: Unassigned

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																							
Floor Area: 133 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8* LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.8 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"> <table style="width: 100%; border: none;"> <tr><th style="text-align: center;">Cooling</th></tr> <tr><td>Vent Type: None</td></tr> <tr><td>Vent Value: 0.00 cfm</td></tr> <tr><td>Vent Schedule: Wyoming FC MUA</td></tr> <tr><td>Infil Type: HEAPY</td></tr> <tr><td>Infil Value: 0.00 air changes/hr</td></tr> <tr><td>Infil Schedule: Available (100%)</td></tr> <tr><td>Vav Airflow: Min: 0.40 cfm/sq ft</td></tr> <tr><td>Vav Sched: Available (100%)</td></tr> <tr><td>Supply: 30.00 To be calculated</td></tr> <tr><td>Aux Supply: To be calculated</td></tr> <tr><td>Room Exhaust:</td></tr> <tr><td>Rm Exh Sched: Available (100%)</td></tr> </table> </td> <td style="width: 50%; border: none;"> <table style="width: 100%; border: none;"> <tr><th style="text-align: center;">Heating</th></tr> <tr><td>None</td></tr> <tr><td>0.00 cfm</td></tr> <tr><td>HEAPY</td></tr> <tr><td>0.08 cfm/sq ft of wall</td></tr> <tr><td>Max: 100.00 % Clg Airflow</td></tr> <tr><td>30.00 To be calculated</td></tr> <tr><td>To be calculated</td></tr> </table> </td> </tr> </table>	<table style="width: 100%; border: none;"> <tr><th style="text-align: center;">Cooling</th></tr> <tr><td>Vent Type: None</td></tr> <tr><td>Vent Value: 0.00 cfm</td></tr> <tr><td>Vent Schedule: Wyoming FC MUA</td></tr> <tr><td>Infil Type: HEAPY</td></tr> <tr><td>Infil Value: 0.00 air changes/hr</td></tr> <tr><td>Infil Schedule: Available (100%)</td></tr> <tr><td>Vav Airflow: Min: 0.40 cfm/sq ft</td></tr> <tr><td>Vav Sched: Available (100%)</td></tr> <tr><td>Supply: 30.00 To be calculated</td></tr> <tr><td>Aux Supply: To be calculated</td></tr> <tr><td>Room Exhaust:</td></tr> <tr><td>Rm Exh Sched: Available (100%)</td></tr> </table>	Cooling	Vent Type: None	Vent Value: 0.00 cfm	Vent Schedule: Wyoming FC MUA	Infil Type: HEAPY	Infil Value: 0.00 air changes/hr	Infil Schedule: Available (100%)	Vav Airflow: Min: 0.40 cfm/sq ft	Vav Sched: Available (100%)	Supply: 30.00 To be calculated	Aux Supply: To be calculated	Room Exhaust:	Rm Exh Sched: Available (100%)	<table style="width: 100%; border: none;"> <tr><th style="text-align: center;">Heating</th></tr> <tr><td>None</td></tr> <tr><td>0.00 cfm</td></tr> <tr><td>HEAPY</td></tr> <tr><td>0.08 cfm/sq ft of wall</td></tr> <tr><td>Max: 100.00 % Clg Airflow</td></tr> <tr><td>30.00 To be calculated</td></tr> <tr><td>To be calculated</td></tr> </table>	Heating	None	0.00 cfm	HEAPY	0.08 cfm/sq ft of wall	Max: 100.00 % Clg Airflow	30.00 To be calculated	To be calculated
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Partition - 1	200 ft ²		0.75* Gyp Frame	0.3880													Adjacent Room: 209 - CORRIDOR
Partition - 2	100 ft ²		0.75* Gyp Frame	0.3880													Adjacent Room: 229 - AUDITORIUM

Room Description: 227 - TICKETS

Zone Description: FC2-08

System Description: Unassigned

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																							
Floor Area: 56 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8* LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: General Office Space # of People: 143 sq ft/person People Sensible: 250 Btu/h People Latent : 200 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.1 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"> <table style="width: 100%; border: none;"> <tr><th style="text-align: center;">Cooling</th></tr> <tr><td>Vent Type: None</td></tr> <tr><td>Vent Value: 11.00 cfm</td></tr> <tr><td>Vent Schedule: Wyoming FC MUA</td></tr> <tr><td>Infil Type: HEAPY</td></tr> <tr><td>Infil Value: 0.00 air changes/hr</td></tr> <tr><td>Infil Schedule: Available (100%)</td></tr> <tr><td>Vav Airflow: Min: 0.40 cfm/sq ft</td></tr> <tr><td>Vav Sched: Available (100%)</td></tr> <tr><td>Supply: 105.00 To be calculated</td></tr> <tr><td>Aux Supply: To be calculated</td></tr> <tr><td>Room Exhaust:</td></tr> <tr><td>Rm Exh Sched: Available (100%)</td></tr> </table> </td> <td style="width: 50%; border: none;"> <table style="width: 100%; border: none;"> <tr><th style="text-align: center;">Heating</th></tr> <tr><td>None</td></tr> <tr><td>11.00 cfm</td></tr> <tr><td>HEAPY</td></tr> <tr><td>0.08 cfm/sq ft of wall</td></tr> <tr><td>Max: 100.00 % Clg Airflow</td></tr> <tr><td>105.00 To be calculated</td></tr> <tr><td>To be calculated</td></tr> </table> </td> </tr> </table>	<table style="width: 100%; border: none;"> <tr><th style="text-align: center;">Cooling</th></tr> <tr><td>Vent Type: None</td></tr> <tr><td>Vent Value: 11.00 cfm</td></tr> <tr><td>Vent Schedule: Wyoming FC MUA</td></tr> <tr><td>Infil Type: HEAPY</td></tr> <tr><td>Infil Value: 0.00 air changes/hr</td></tr> <tr><td>Infil Schedule: Available (100%)</td></tr> <tr><td>Vav Airflow: Min: 0.40 cfm/sq ft</td></tr> <tr><td>Vav Sched: Available (100%)</td></tr> <tr><td>Supply: 105.00 To be calculated</td></tr> <tr><td>Aux Supply: To be calculated</td></tr> <tr><td>Room Exhaust:</td></tr> <tr><td>Rm Exh Sched: Available (100%)</td></tr> </table>	Cooling	Vent Type: None	Vent Value: 11.00 cfm	Vent Schedule: Wyoming FC MUA	Infil Type: HEAPY	Infil Value: 0.00 air changes/hr	Infil Schedule: Available (100%)	Vav Airflow: Min: 0.40 cfm/sq ft	Vav Sched: Available (100%)	Supply: 105.00 To be calculated	Aux Supply: To be calculated	Room Exhaust:	Rm Exh Sched: Available (100%)	<table style="width: 100%; border: none;"> <tr><th style="text-align: center;">Heating</th></tr> <tr><td>None</td></tr> <tr><td>11.00 cfm</td></tr> <tr><td>HEAPY</td></tr> <tr><td>0.08 cfm/sq ft of wall</td></tr> <tr><td>Max: 100.00 % Clg Airflow</td></tr> <tr><td>105.00 To be calculated</td></tr> <tr><td>To be calculated</td></tr> </table>	Heating	None	11.00 cfm	HEAPY	0.08 cfm/sq ft of wall	Max: 100.00 % Clg Airflow	105.00 To be calculated	To be calculated
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Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h·ft ² ·°F	Alpha	Glass				External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
						Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h·ft ² ·°F								
Misc Load 1	300.000 W		Misc - Elementary School														100 100 0 60.00
Partition - 1	200 ft ²		0.75* Gyp Frame	0.3880													Adjacent Room: 248 - CORRIDOR
Partition - 2	100 ft ²		0.75* Gyp Frame	0.3880													Adjacent Room: 229 - AUDITORIUM

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 222 - SMALL GROUP ROOM

Zone Description: FC2-10

System Description: Unassigned

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 130 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: Conference Room # of People: 4 People People Sensible: 245 Btu/h People Latent : 155 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"><u>Cooling</u></td> <td style="width: 50%; border: none;"><u>Heating</u></td> </tr> <tr> <td style="border: none;">Vent Type: None</td> <td style="border: none;">None</td> </tr> <tr> <td style="border: none;">Vent Value: 17.00 cfm</td> <td style="border: none;">17.00 cfm</td> </tr> <tr> <td style="border: none;">Vent Schedule: Wyoming FC MUA</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Infil Type: HEAPY</td> <td style="border: none;">HEAPY</td> </tr> <tr> <td style="border: none;">Infil Value: 0.00 air changes/hr</td> <td style="border: none;">0.08 cfm/sq ft of wall</td> </tr> <tr> <td style="border: none;">Infil Schedule: Available (100%)</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Vav Airflow: Min: 0.40 cfm/sq ft</td> <td style="border: none;">Max: 100.00 % Clg Airflow</td> </tr> <tr> <td style="border: none;">Vav Sched: Available (100%)</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Supply: 665.00 To be calculated</td> <td style="border: none;">665.00 To be calculated</td> </tr> <tr> <td style="border: none;">Aux Supply: To be calculated</td> <td style="border: none;">To be calculated</td> </tr> <tr> <td style="border: none;">Room Exhaust:</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Rm Exh Sched: Available (100%)</td> <td style="border: none;"></td> </tr> </table>	<u>Cooling</u>	<u>Heating</u>	Vent Type: None	None	Vent Value: 17.00 cfm	17.00 cfm	Vent Schedule: Wyoming FC MUA		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 665.00 To be calculated	665.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
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Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² ·°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass U Value Btu/h-ft ² ·°F	External Shading	Internal Shading	Adj	Pct	Pct	Pct	Rad	
												Temp/ Grnd Refl	Sen/ Cool Tmp	Rm/ Heat Tmp	Ret/ Perm Len	Frc/ Loss Coef	
S windows	150 ft ²	180	0 Wyoming Existing Window	0.1059	0.90	90.1-07 4a Window	24	0.46	0.55	Overhang - None	None	0.00					
Misc Load 1	155.000 W		Misc - Elementary School			Electricity							100	100		0	60.00

Room Description: 223 - SMALL GROUP ROOM

Zone Description: FC2-10

System Description: Unassigned

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																										
Floor Area: 126 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: Conference Room # of People: 4 People People Sensible: 245 Btu/h People Latent : 155 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"><u>Cooling</u></td> <td style="width: 50%; border: none;"><u>Heating</u></td> </tr> <tr> <td style="border: none;">Vent Type: None</td> <td style="border: none;">None</td> </tr> <tr> <td style="border: none;">Vent Value: 17.00 cfm</td> <td style="border: none;">17.00 cfm</td> </tr> <tr> <td style="border: none;">Vent Schedule: Wyoming FC MUA</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Infil Type: HEAPY</td> <td style="border: none;">HEAPY</td> </tr> <tr> <td style="border: none;">Infil Value: 0.00 air changes/hr</td> <td style="border: none;">0.08 cfm/sq ft of wall</td> </tr> <tr> <td style="border: none;">Infil Schedule: Available (100%)</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Vav Airflow: Min: 0.40 cfm/sq ft</td> <td style="border: none;">Max: 100.00 % Clg Airflow</td> </tr> <tr> <td style="border: none;">Vav Sched: Available (100%)</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Supply: 160.00 To be calculated</td> <td style="border: none;">160.00 To be calculated</td> </tr> <tr> <td style="border: none;">Aux Supply: To be calculated</td> <td style="border: none;">To be calculated</td> </tr> <tr> <td style="border: none;">Room Exhaust:</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">Rm Exh Sched: Available (100%)</td> <td style="border: none;"></td> </tr> </table>	<u>Cooling</u>	<u>Heating</u>	Vent Type: None	None	Vent Value: 17.00 cfm	17.00 cfm	Vent Schedule: Wyoming FC MUA		Infil Type: HEAPY	HEAPY	Infil Value: 0.00 air changes/hr	0.08 cfm/sq ft of wall	Infil Schedule: Available (100%)		Vav Airflow: Min: 0.40 cfm/sq ft	Max: 100.00 % Clg Airflow	Vav Sched: Available (100%)		Supply: 160.00 To be calculated	160.00 To be calculated	Aux Supply: To be calculated	To be calculated	Room Exhaust:		Rm Exh Sched: Available (100%)	
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Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² ·°F	Alpha	Type / Energy Type	Area ft ²	Shade Coef	Glass U Value Btu/h-ft ² ·°F	External Shading	Internal Shading	Adj	Pct	Pct	Pct	Rad	
												Temp/ Grnd Refl	Sen/ Cool Tmp	Rm/ Heat Tmp	Ret/ Perm Len	Frc/ Loss Coef	
Misc Load 1	155.000 W		Misc - Elementary School			Electricity							100	100		0	60.00

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 220A - CORRIDOR

Zone Description: FC2-13

System Description: Unassigned

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																							
Floor Area: 475 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.5 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"> <table style="width: 100%; border: none;"> <tr><th style="text-align: center;">Cooling</th></tr> <tr><td>Vent Type: None</td></tr> <tr><td>Vent Value: 38.00 cfm</td></tr> <tr><td>Vent Schedule: Wyoming FC MUA</td></tr> <tr><td>Infil Type: HEAPY</td></tr> <tr><td>Infil Value: 0.00 air changes/hr</td></tr> <tr><td>Infil Schedule: Available (100%)</td></tr> <tr><td>Vav Airflow: Min: 0.40 cfm/sq ft</td></tr> <tr><td>Vav Sched: Available (100%)</td></tr> <tr><td>Supply: 100.00 To be calculated</td></tr> <tr><td>Aux Supply: To be calculated</td></tr> <tr><td>Room Exhaust:</td></tr> <tr><td>Rm Exh Sched: Available (100%)</td></tr> </table> </td> <td style="width: 50%; border: none;"> <table style="width: 100%; border: none;"> <tr><th style="text-align: center;">Heating</th></tr> <tr><td>None</td></tr> <tr><td>38.00 cfm</td></tr> <tr><td>HEAPY</td></tr> <tr><td>0.08 cfm/sq ft of wall</td></tr> <tr><td>Max: 100.00 % Clg Airflow</td></tr> <tr><td>100.00 To be calculated</td></tr> <tr><td>To be calculated</td></tr> </table> </td> </tr> </table>	<table style="width: 100%; border: none;"> <tr><th style="text-align: center;">Cooling</th></tr> <tr><td>Vent Type: None</td></tr> <tr><td>Vent Value: 38.00 cfm</td></tr> <tr><td>Vent Schedule: Wyoming FC MUA</td></tr> <tr><td>Infil Type: HEAPY</td></tr> <tr><td>Infil Value: 0.00 air changes/hr</td></tr> <tr><td>Infil Schedule: Available (100%)</td></tr> <tr><td>Vav Airflow: Min: 0.40 cfm/sq ft</td></tr> <tr><td>Vav Sched: Available (100%)</td></tr> <tr><td>Supply: 100.00 To be calculated</td></tr> <tr><td>Aux Supply: To be calculated</td></tr> <tr><td>Room Exhaust:</td></tr> <tr><td>Rm Exh Sched: Available (100%)</td></tr> </table>	Cooling	Vent Type: None	Vent Value: 38.00 cfm	Vent Schedule: Wyoming FC MUA	Infil Type: HEAPY	Infil Value: 0.00 air changes/hr	Infil Schedule: Available (100%)	Vav Airflow: Min: 0.40 cfm/sq ft	Vav Sched: Available (100%)	Supply: 100.00 To be calculated	Aux Supply: To be calculated	Room Exhaust:	Rm Exh Sched: Available (100%)	<table style="width: 100%; border: none;"> <tr><th style="text-align: center;">Heating</th></tr> <tr><td>None</td></tr> <tr><td>38.00 cfm</td></tr> <tr><td>HEAPY</td></tr> <tr><td>0.08 cfm/sq ft of wall</td></tr> <tr><td>Max: 100.00 % Clg Airflow</td></tr> <tr><td>100.00 To be calculated</td></tr> <tr><td>To be calculated</td></tr> </table>	Heating	None	38.00 cfm	HEAPY	0.08 cfm/sq ft of wall	Max: 100.00 % Clg Airflow	100.00 To be calculated	To be calculated
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Partition - 1	300 ft ²		0.75* Gyp Frame	0.3880												Adjacent Room: 221 - EXTENDED LE
Partition - 2	200 ft ²		0.75* Gyp Frame	0.3880												Adjacent Room: 213 - CLASSROOM
Partition - 3	150 ft ²		0.75* Gyp Frame	1.0000												Adjacent Room: 220B - CORRIDOR

Room Description: 201 - STAIR HALL

Zone Description: FC2-14

System Description: Unassigned

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION																							
Floor Area: 1,250 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.6 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"> <table style="width: 100%; border: none;"> <tr><th style="text-align: center;">Cooling</th></tr> <tr><td>Vent Type: None</td></tr> <tr><td>Vent Value: 100.00 cfm</td></tr> <tr><td>Vent Schedule: Wyoming FC MUA</td></tr> <tr><td>Infil Type: HEAPY</td></tr> <tr><td>Infil Value: 0.00 air changes/hr</td></tr> <tr><td>Infil Schedule: Available (100%)</td></tr> <tr><td>Vav Airflow: Min: 0.40 cfm/sq ft</td></tr> <tr><td>Vav Sched: Available (100%)</td></tr> <tr><td>Supply: 260.00 To be calculated</td></tr> <tr><td>Aux Supply: To be calculated</td></tr> <tr><td>Room Exhaust:</td></tr> <tr><td>Rm Exh Sched: Available (100%)</td></tr> </table> </td> <td style="width: 50%; border: none;"> <table style="width: 100%; border: none;"> <tr><th style="text-align: center;">Heating</th></tr> <tr><td>None</td></tr> <tr><td>100.00 cfm</td></tr> <tr><td>HEAPY</td></tr> <tr><td>0.08 cfm/sq ft of wall</td></tr> <tr><td>Max: 100.00 % Clg Airflow</td></tr> <tr><td>260.00 To be calculated</td></tr> <tr><td>To be calculated</td></tr> </table> </td> </tr> </table>	<table style="width: 100%; border: none;"> <tr><th style="text-align: center;">Cooling</th></tr> <tr><td>Vent Type: None</td></tr> <tr><td>Vent Value: 100.00 cfm</td></tr> <tr><td>Vent Schedule: Wyoming FC MUA</td></tr> <tr><td>Infil Type: HEAPY</td></tr> <tr><td>Infil Value: 0.00 air changes/hr</td></tr> <tr><td>Infil Schedule: Available (100%)</td></tr> <tr><td>Vav Airflow: Min: 0.40 cfm/sq ft</td></tr> <tr><td>Vav Sched: Available (100%)</td></tr> <tr><td>Supply: 260.00 To be calculated</td></tr> <tr><td>Aux Supply: To be calculated</td></tr> <tr><td>Room Exhaust:</td></tr> <tr><td>Rm Exh Sched: Available (100%)</td></tr> </table>	Cooling	Vent Type: None	Vent Value: 100.00 cfm	Vent Schedule: Wyoming FC MUA	Infil Type: HEAPY	Infil Value: 0.00 air changes/hr	Infil Schedule: Available (100%)	Vav Airflow: Min: 0.40 cfm/sq ft	Vav Sched: Available (100%)	Supply: 260.00 To be calculated	Aux Supply: To be calculated	Room Exhaust:	Rm Exh Sched: Available (100%)	<table style="width: 100%; border: none;"> <tr><th style="text-align: center;">Heating</th></tr> <tr><td>None</td></tr> <tr><td>100.00 cfm</td></tr> <tr><td>HEAPY</td></tr> <tr><td>0.08 cfm/sq ft of wall</td></tr> <tr><td>Max: 100.00 % Clg Airflow</td></tr> <tr><td>260.00 To be calculated</td></tr> <tr><td>To be calculated</td></tr> </table>	Heating	None	100.00 cfm	HEAPY	0.08 cfm/sq ft of wall	Max: 100.00 % Clg Airflow	260.00 To be calculated	To be calculated
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Description	Area/ Amount	Dir	Const Type / Tilt Schedule	U Value Btu/h-ft ² ·°F	Alpha	Type / Energy Type	Glass			External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
							Shade Coef	U Value Btu/h-ft ² ·°F	Internal Shading							

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 302 - SMALL GROUP ROOM

Zone Description: FC3-01

System Description: Unassigned

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION		
Floor Area: 100 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: Conference Room # of People: 4 People People Sensible: 245 Btu/h People Latent : 155 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 1.4 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> Cooling Vent Type: None Vent Value: 15.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 150.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%) </td> <td style="width: 50%; vertical-align: top;"> Heating None 15.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 150.00 To be calculated To be calculated </td> </tr> </table>	Cooling Vent Type: None Vent Value: 15.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 150.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)	Heating None 15.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 150.00 To be calculated To be calculated
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Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² ·°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² ·°F						External Shading
Roof - 1	100 ft ²	0	90	Wyoming Existing	0.0783	0.90										
Misc Load 1	155.000 W			Misc - Elementary School			Electricity			Overhang - None	None			100	100	0 60.00

Room Description: 303A - CORRIDOR

Zone Description: FC3-01

System Description: Unassigned

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION		
Floor Area: 475 ft ² Flr-Flr Height: 14.1 ft Plenum Height: 1.1 ft Height Above Flr: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² ·°F/Btu Is There Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location:Zone Floor Multiplier: 1 Humidistat Location:Room Room Multiplier: 1 CO2 Sensor Location:None Room Type:Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.5 W/sq ft Ballast Factor: 1.0	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> Cooling Vent Type: None Vent Value: 38.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 100.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%) </td> <td style="width: 50%; vertical-align: top;"> Heating None 38.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 100.00 To be calculated To be calculated </td> </tr> </table>	Cooling Vent Type: None Vent Value: 38.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 100.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)	Heating None 38.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 100.00 To be calculated To be calculated
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Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² ·°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² ·°F						External Shading
Roof - 1	475 ft ²	0	90	Wyoming Existing	0.0783	0.90										
Partition - 1	300 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 304 - CLASSROOM
Partition - 2	300 ft ²			0.75* Gyp Frame	0.3880											Adjacent Room: 333 - EXTENDED LE

ENTERED VALUES

ROOM BY ROOM

By Heapy Engineering

Room Description: 345 - CORRIDOR

Zone Description: FC3-02

System Description: Unassigned

GENERAL INFORMATION	PEOPLE	AIRFLOW INFORMATION
Floor Area: 168 ft ² Fir-Fir Height: 14.1 ft Plenum Height: 1.1 ft Height Above Fir: Slab Cnstr Type: 8" LW Concrete Room Mass: Time delay based on actual mass Ceiling R-Value: 1.786 hr-ft ² -°F/Btu Is there Carpet?: YES Design Clg DB / Drift Point: 75.0 °F / 81.0 °F Design Htg DB / Drift Point: 72.0 °F / 66.0 °F Design Relative Humidity: 50 % Moisture Capacitance: Medium Clg Tstat: None Htg Tstat: None Thermostat Location: Zone Floor Multiplier: 1 Humidistat Location: Room Room Multiplier: 1 CO2 Sensor Location: None Room Type: Conditioned	People Type: None # of People: 0 sq ft/person People Sensible: 250 Btu/h People Latent : 250 Btu/h People Schedule: People - Elem Classroom non-summer Workstation: 1.0 workstation/person LIGHTS Lighting Type: Recessed fluorescent, not vented, 80% load to space Fixture Type: RECFL-NV % Load to RA: 20 % Lighting Schedule: Lights - Elem Classroom non-summer Lighting Amount: 0.5 W/sq ft Ballast Factor: 1.0	Cooling Vent Type: None Vent Value: 14.00 cfm Vent Schedule: Wyoming FC MUA Infil Type: HEAPY Infil Value: 0.00 air changes/hr Infil Schedule: Available (100%) Vav Airflow: Min: 0.40 cfm/sq ft Vav Sched: Available (100%) Supply: 35.00 To be calculated Aux Supply: To be calculated Room Exhaust: Rm Exh Sched: Available (100%)
		Heating None 14.00 cfm HEAPY 0.08 cfm/sq ft of wall Max: 100.00 % Clg Airflow 175.00 % Htg Airflow To be calculated

Description	Area/ Amount	Dir	Tilt	Const Type / Schedule	U Value Btu/h-ft ² -°F	Alpha	Glass				Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef	
							Type / Energy Type	Area ft ²	Shade Coef	U Value Btu/h-ft ² -°F						External Shading
Roof - 1	168 ft ²	0	90	Wyoming Existing	0.0783	0.90										
Partition - 1	300 ft ²			0.75* Gyp Frame	0.3880											
Partition - 2	100 ft ²			0.75* Gyp Frame	0.3880											

Adjacent Room: 344 - EXTENDED LE
 Adjacent Room: 346 - OFFICE