



Case No.: ____-____-EL-EEC

Mercantile Customer: West Chester Township

Electric Utility: Duke Energy

Program Title or Description: Library Lighting-Motors-Chiller

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: **West Chester Township**

Principal address: **9113 Cincinnati Dayton Rd West Chester, Ohio 45069**

Address of facility for which this energy efficiency program applies:

9363 Centre Point Drive West Chester, Ohio 45069

Name and telephone number for responses to questions:

Grady Reid Jr, 513-287-1038

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.)**

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)).
- 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): **July 2009**
- 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: _____kWh

- 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: **56,426 kWh (See Attachment 1 - Appendix 2)**

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.
-

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?

New equipment was installed starting January 2009 and was finished July 2009

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

16.54 KW (See Attachment 1 - Appendix 2)

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 **\$2365.62 (See Attachment 1 - Appendix 3)**. (Rebate shall not exceed 50% project cost. Attach documentation showing the methodology used to determine the cash rebate value and calculations showing how this payment amount was determined.)

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). **(See Attachment 1 - Appendix 4)**

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 **\$33,049 (See Attachment 1 - Appendix 5).**

The utility's program costs were **\$1,706(See Attachment 1 - Appendix 6).**

The utility's incentive costs/rebate costs were **\$2,365.62 (See Attachment 1 - Appendix 3).**

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.



DUKE ENERGY CORPORATION
Mercantile Self Direct Program
139 East Fourth Street
Cincinnati, OH 45202
513 629 5572 fax

June 13, 2012

Mr. Tim Franck
West Chester Township
9113 Cincinnati Dayton Road
West Chester, Ohio 45069

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

Dear Mr. Franck:

Thank you for your Duke Energy Mercantile Self Direct rebate application. As noted in the Energy Conservation Measure (ECM) chart on page two, a total rebate of \$2365.62 has been proposed for your lighting, chiller and motors project completed in the 2009 calendar year. 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 two
- completing the PUCO-required affidavit on page three.

Please return the documents to my attention via fax at 513-629-5572 or e-mail to SelfDirect@Duke-Energy.com. Upon receipt, Duke Energy will submit the necessary documentation to PUCO. Following PUCO's approval, Duke Energy will remit payment.

At Duke Energy, 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 \$aver® incentives, when applicable. Please contact me if you have any questions.

Sincerely,

Grady Reid, Jr
Product Manager
Mercantile Self Direct Rebates

cc: Tim Abbott, Duke Energy
Rob Jung, WECC
John Brofft, Innovative Energy Solutions

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

Rebate is accepted. Rebate is declined.

By accepting this rebate, West Chester Township 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, West Chester Township 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, West Chester Township 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

If rebate is declined, please indicate reason (optional):


Customer Signature

JUDITH BOYKO
Printed Name

6-13-12
Date

Proposed Rebate Amounts

Measure ID	Energy Conservation Measure (ECM)	Proposed Rebate Amount
ECM-1	Occupancy Sensors <500 Watts (Qty 29)	\$290.00
ECM-2	Occupancy Sensors >500 Watts (Qty 3)	\$60.00
ECM-3	High Efficiency 10 HP Pump (Qty 4)	\$330.00
ECM-4	Motors 7.5 – 20 HP (Qty 4)	\$160.00
ECM-5	Air Screw Chiller COP=2.86, IPLV=3.48 (Qty 1)	\$1525.62
Total		\$2365.62



Public Utilities Commission

Application to Commit Energy Efficiency/Peak Demand Reduction Programs (Mercantile Customers Only)

Case No.: ___ - ___ -EL-EEC

State of OHIO :

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

- 1. I am the duly authorized representative of: WEST CHESTER TOWNSHIP [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.

Judith C Boyko TOWNSHIP ADMINISTRATOR
Signature of Affiant & Title

Sworn and subscribed before me this 13th day of June, 2012 Month/Year

Patricia L. Tiffany
Signature of official administering oath

PATRICIA L. TIFFANY, ADM ASST
Print Name and Title 92071184

My commission expires on



PATRICIA L TIFFANY
NOTARY PUBLIC, STATE OF OHIO
MY COMMISSION EXPIRES
JUNE 21, 2014

Attachment 1 – West Chester Library

Appendix 1 – Electric History

66702109 04		
WESTCHESTER TOWNSHIP		
9577 BECKETT RD		
WEST CHESTER, OH 45069		
Read Date	Days	KWH Usage
12/17/2009	31	144,900
1/20/2010	34	180,900
2/18/2010	29	164,953
3/19/2010	29	148,184
4/20/2010	32	145,776
5/19/2010	29	130,402
6/18/2010	30	151,308
7/20/2010	32	168,796
8/18/2010	29	156,777
9/17/2010	30	148,395
10/18/2010	31	139,824
12/17/2010	31	153,851
Total		1,834,066

Appendix 2 – Annual kWh losses and annual KW losses

Measure	Annual kWh Gross with losses	Upload Amount	TOTAL Annual kWh losses	KW Per Measure	Total KW Savings
Occupancy Sensor - <500 W	525.15	29	15229.35	0.11	3.19
Occupancy Sensor - >500 W	1313.35	3	3940.05	0.27	0.81
High Efficiency - Pump HE 10 HP	2525.91	4	10103.64	0.69	2.76
Motor - 7.5-20 hp	437.49	4	1749.96	0.12	0.48
Chiller - Air - Screw - COP=2.86 (kw/ton 1.23), IPLV=3.48 (kw/ton=1.01)	163.89	155	25402.95	0.06	9.3
Total			56425.95		16.54

Appendix 3 – Cash Rebate

Measure	Amount
Occupancy Sensor - <500 W	\$290.00
Occupancy Sensor - >500 W	\$60.00
High Efficiency - Pump HE 10 HP	\$330.00
Motor - 7.5-20 hp	\$160.00
Chiller - Air - Screw - COP=2.86 (kw/ton 1.23), IPLV=3.48 (kw/ton=1.01)	\$1,525.62
Total	\$2,365.62

Appendix 4 – Utility Cost Test

Measure	UCT
Occupancy Sensor - <500 W	10.21
Occupancy Sensor - >500 W	12.72
High Efficiency - Pump HE 10 HP	10.70
Motor - 7.5-20 hp	2.95
Chiller - Air - Screw - COP=2.86 (kw/ton 1.23), IPLV=3.48 (kw/ton=1.01)	7.6

Appendix 5 – Avoided Supply Costs

Measure	T&D	Production	Capacity	Quantity	Total Avoided Costs
Occupancy Sensor - <500 W	\$17	\$117	\$39	29	\$5,017.00
Occupancy Sensor - >500 W	\$41	\$293	\$95	3	\$1,287.00
High Efficiency - Pump HE 10 HP	\$133	\$957	\$414	4	\$6,016.00
Motor - 7.5-20 hp	\$23	\$166	\$72	4	\$1,044.00
Chiller - Air - Screw - COP=2.86 (kw/ton 1.23), IPLV=3.48 (kw/ton=1.01)	\$14.00	\$70.00	\$43.00	155	\$19,685.00
Total					\$33,049.00

Appendix 6 – Utility Program Costs

Measure	Qty	Admin Costs	Total Costs
Occupancy Sensor - <500 W	29	\$7	\$203
Occupancy Sensor - >500 W	3	\$14	\$42
High Efficiency - Pump HE 10 HP	4	\$58	\$232
Motor - 7.5-20 hp	4	\$36	\$144
Chiller - Air - Screw - COP=2.86 (kw/ton 1.23), IPLV=3.48 (kw/ton=1.01)	155	\$7.00	\$1,085
Total			\$1,706.00

PRESCRIPTIVE LIGHTING

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 1-513-419-5572.

Mercantile customers, defined as using at least 700,000 kWh annually are eligible for the Mercantile Self Direct program. Please indicate mercantile qualification:

- a single Duke Energy Ohio account
- multiple accounts in Ohio (energy usage with other utilities may be counted toward the total)

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

Account Number	Annual Usage	Account Number	Annual Usage
2430-3699-01-1	723,400		

Self Direct rebates are available for completed Custom projects that have not previously received a Duke Energy Smart Saver® Custom Incentive. Self Direct incentives 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 requirements dictate that certain projects that may be Prescriptive in nature under the Smart Saver program must be evaluated using the Custom process. Use the table on page two as a guide to determine which Self Direct program fits your project(s). Apply for Self Direct projects using the appropriate application forms in conjunction with this cover sheet. Where Mercantile Self Direct Prescriptive applications are listed, please refer to the measure list on that application. If your measure is not listed, you may be eligible for a Self Direct Custom rebate. Self Direct Custom applications, like Smart Saver Custom applications, should include detailed analysis of pre-project and post-project energy usage and project costs. Please indicate which type of rebate applications are included in the table provided on page two.

Please check each box to indicate completion 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.

Application Type	Replaced equipment at end of lifetime or because equipment failed**	Replaced fully operational equipment to improve efficiency***	New Construction
Lighting	MSD Custom Part 1 <input type="checkbox"/> Custom Lighting Worksheet <input type="checkbox"/>	MSD Prescriptive Lighting <input type="checkbox"/>	MSD Prescriptive Lighting <input checked="" type="checkbox"/>
		MSD Custom Part 1 <input type="checkbox"/> Custom Lighting Worksheet <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> Custom Lighting Worksheet <input type="checkbox"/>
Heating & Cooling	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	MSD Prescriptive Heating & Cooling <input type="checkbox"/>
			MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>
Window Films, Programmable Thermostats, & Guest Room Energy Management Systems	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General and/or EMS Worksheet(s) <input type="checkbox"/>	MSD Prescriptive Heating & Cooling <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General and/or EMS Worksheet(s) <input type="checkbox"/>
Chillers & Thermal Storage	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	MSD Prescriptive Chillers & Thermal Storage <input type="checkbox"/>
			MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>
Chiller Tune-ups	MSD Prescriptive Chiller Tune-ups <input type="checkbox"/>	MSD Prescriptive Chiller Tune-ups <input type="checkbox"/>	MSD Prescriptive Chiller Tune-ups <input type="checkbox"/>
Motors & Pumps	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	MSD Prescriptive Motors, Pumps & Drives <input type="checkbox"/>
			MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>
VFDs	Not Applicable	MSD Prescriptive Motors, Pumps & Drives <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> MSD Custom VFD Worksheet <input type="checkbox"/>
		MSD Custom Part 1 <input type="checkbox"/> MSD Custom VFD Worksheet <input type="checkbox"/>	
Food Service	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	MSD Prescriptive Food Service <input type="checkbox"/>
			MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>
Air Compressors	MSD Custom Part 1 <input type="checkbox"/> MSD Custom Compressed Air Worksheet <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> MSD Custom Compressed Air Worksheet <input type="checkbox"/>	MSD Prescriptive Process <input type="checkbox"/>
			MSD Custom Part 1 <input type="checkbox"/> MSD Custom Compressed Air Worksheet <input type="checkbox"/>
Process	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	MSD Prescriptive Process <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>
		MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	
Energy Management Systems	MSD Custom Part 1 <input type="checkbox"/> MSD Custom EMS Worksheet <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> MSD Custom EMS Worksheet <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> MSD Custom EMS Worksheet <input type="checkbox"/>
Behavioral*** & No/Low Cost	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>		

** Under the Self Direct program, failed equipment and equipment at the end of its useful life are evaluated differently than early replacement of fully functioning equipment. All equipment replacements due to failure or old age will be evaluated via the Custom program.

*** Please ensure that you include the age of the replaced equipment for measures classified as "Early Replacement" in your application as well as the estimated date that you would have otherwise replaced the existing equipment if you had not chosen a more energy efficient option.

**** Behavioral energy efficiency and demand reduction projects must be both measurable and verifiable. Provide justification with your application.



MERCANTILE SELF DIRECT Ohio Lighting Incentive Application

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

Email the complete, signed application with all required documents to SelfDirect@duke-energy.com or fax to 513-419-5572.

Is this application: NEW (original) or REVISED (changes made to original application)

Building Type – Required (check one)		
<input type="checkbox"/> Data Centers	<input type="checkbox"/> Full Service Restaurant	<input type="checkbox"/> Office
<input type="checkbox"/> Education/K-12	<input type="checkbox"/> Healthcare	<input checked="" type="checkbox"/> Public Assembly
<input type="checkbox"/> Education Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Public Order/Safety
<input type="checkbox"/> Elder Care/Nursing Home	<input type="checkbox"/> Lodging	<input type="checkbox"/> Religious Worship/Church
<input type="checkbox"/> Food Sales/Grocery	<input type="checkbox"/> Retail (Small Box)	<input type="checkbox"/> Service
<input type="checkbox"/> Fast Food Restaurant	<input type="checkbox"/> Retail (Big Box)	<input type="checkbox"/> Warehouse
<input type="checkbox"/> Other:		
How did you hear about the program? (check one)		
<input type="checkbox"/> Duke Energy Representative	<input type="checkbox"/> Web Site	<input type="checkbox"/> Radio
<input checked="" type="checkbox"/> Contractor / Vendor	<input type="checkbox"/> Other	

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

<input checked="" type="checkbox"/> All sections of application	<input checked="" type="checkbox"/> Invoice with make, model number, quantity and equipment manufacturer	<input checked="" type="checkbox"/> Tax ID number for payee	<input checked="" type="checkbox"/> Customer/vendor agree to Terms and Conditions
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Customer Information			
Customer/Business	West Chester Township	Contact	Tim Franck
Phone	513-579-7300	Account Number	2430-3699-01-1
Street Address (Where incentive should be mailed)		9113 Cincinnati Dayton Road	
City	West Chester	State	Oh
Zip Code	45069		
Installation Street Address	9363 Centre Point Drive		
City	West Chester	State	Oh
Zip Code	45069		
E-mail Address	tfranck@westchesteroh.org		

*Failure to provide the account number associated with the location where the installation took place will result in rejection of the application.

Vendor Information			
Vendor	Innovative Energy Solutions	Contact	John Brofft
Phone	513-874-6733	Fax	513-874-8911
Street Address		3680 Symmes Road	
City	Hamilton	State	OH
Zip Code	45015		
E-mail Address	john.brofft@ies-cin.com		

If Duke Energy has questions about this application, who should we contact? Customer Vendor

Payment Information		
Who should receive incentive payment?	<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 (written signature)	
	Date	N/A
Provide Tax ID Number for Payee	Customer Tax ID #	31-6010106
	Vendor Tax ID #	N/A

Terms and Conditions			
I have read and hereby agree to the Terms & Conditions and Program Requirements.			
Customer Signature		Vendor Signature	
Date	1/9/12	Date	
Title		Title	

Incentives are subject to change and may be discontinued at the sole discretion of Duke Energy. Equipment must be installed and operable to be eligible for incentives. As Federal Energy Policy Law changes, equipment efficiency requirements are subject to change.

NOTE: All Fixtures must be installed indoors, with the exception of Traffic and Pedestrian Signals and where otherwise noted.

Fixtures = Lamps + Ballast Retrofit fixture replacement – 1:1 ratio (except where otherwise indicated)	Ballast and Model Numbers	Incentive per fixture	Qty	Annual Operating Hours (minimum of 1800)	Equipment Cost (w/o labor)	Date Installed and Operable (m/n/yy)	Total Incentive
T-12 fixtures replaced by T8 (T8 U tube lamps are eligible for incentives based on the total measured length of the lamp.)							
T8 8ft 2 lamp replacing T12 8ft 2 lamp (retrofit only)	Ballast model# Lamp model #	\$3.50		Hrs.			
T8 8ft 1 lamp replacing T12 8ft 1 lamp (retrofit only)	Ballast model# Lamp model #	\$2.50		Hrs.			
T8 4ft 4 lamp replacing T12 4ft 4 lamp (retrofit only)	Ballast model# Lamp model #	\$5.50		Hrs.			
T8 4ft 3 lamp replacing T12 4ft 3 lamp (retrofit only)	Ballast model# Lamp model #	\$4.50		Hrs.			
T8 4ft 2 lamp replacing T12 4ft 2 lamp (retrofit only)	Ballast model# Lamp model #	\$2.00		Hrs.			
T8 4ft 1 lamp replacing T12 4ft 1 lamp (retrofit only)	Ballast model# Lamp model #	\$1.50		Hrs.			
T8 3ft 4 lamp replacing T12 3ft 4 lamp (retrofit only)	Ballast model# Lamp model #	\$5.00		Hrs.			
T8 3ft 3 lamp replacing T12 3ft 3 lamp (retrofit only)	Ballast model# Lamp model #	\$3.25		Hrs.			
T8 3ft 2 lamp replacing T12 3ft 2 lamp (retrofit only)	Ballast model# Lamp model #	\$2.00		Hrs.			
T8 3ft 1 lamp replacing T12 3ft 1 lamp (retrofit only)	Ballast model# Lamp model #	\$1.50		Hrs.			
T8 2ft 4 lamp replacing T12 2ft 4 lamp (retrofit only)	Ballast model# Lamp model #	\$3.00		Hrs.			
T8 2ft 3 lamp replacing T12 2ft 3 lamp (retrofit only)	Ballast model# Lamp model #	\$2.10		Hrs.			
T8 2ft 2 lamp replacing T12 2ft 2 lamp (retrofit only)	Ballast model# Lamp model #	\$2.00		Hrs.			
T8 2ft 1 lamp replacing T12 2ft 1 lamp (retrofit only)	Ballast model# Lamp model #	\$1.50		Hrs.			

- Replacement must result in energy savings to qualify.
- All equipment must be new to be eligible for incentives. Used equipment is *not* eligible for incentives.
- All fixtures must operate a minimum of 1,800 hours to be eligible.
- All fluorescent fixtures shall utilize electronic ballast and T-8 lamps.
- Ballasts shall have a power factor greater than 90%.
- Ballasts, harmonic distortion shall not exceed 20%. For 8-foot fluorescent ballasts, the total harmonic distortion shall not exceed 30%.
- Lighting circuits should be installed with a neutral wire that has the same size conductor as the line load.
- All fixtures shall be installed indoors (heated and cooled enclosed space).
- All fixtures, lamps and ballasts must be UL certified and meet all applicable codes and regulations.
- High lumen lamp and low ballast factor ballast combinations are expected.
- Eligible T8 High Bays must have specular/mirror like or white reflectors and fixture efficiency must be >90%.
- *Manufacturers spec sheet is required and must indicate that it is a High Bay fixture and the fixture efficiency is > than 90%. If spec sheet does not list efficiency, a photometric report will be required that indicates total fixture (Luminaire) efficiency rating or the 0-180 degree of lamp rating included in the zonal lumen summary chart.*
- Incentive capped at 50% of the equipment cost.
- New construction or replacement of failed equipment must apply for Self Direct Custom program.

NOTE: All Fixtures must be installed indoors, with the exception of Traffic and Pedestrian Signals and where otherwise noted.

Fixtures = Lamps + Ballast Retrofit fixture replacement – 1:1 ratio (except where otherwise indicated)	Ballast and Model Numbers	Incentive per fixture	Qty	Annual Operating Hours (minimum of 1800)	Equipment Cost (w/o labor)	Date Installed and Operable (mm/yy)	Total Incentive
T-12 fixtures replaced by T8 (T8 U tube lamps are eligible for incentives based on the total measured length of the lamp.)							
T8 HO 8ft 1 lamp replacing T12 HO 8ft 1 lamp (retrofit only)	Ballast model#	\$5.00		Hrs.			
	Lamp model #						
T8 HO 8ft 2 lamp replacing T12 HO 8ft 2 lamp (retrofit only)	Ballast model#	\$7.00		Hrs.			
	Lamp model #						
T8 HB 4ft 3L replacing 150-249W HID (retrofit only)	Ballast model#	\$15.00		Hrs.			
	Lamp model #						
T8 HB 4ft 4L a replacing 250-399W HID (retrofit only)	Ballast model#	\$20.00		Hrs.			
	Lamp model #						
T8 HB 4ft 6L replacing 400-999W HID (retrofit only)	Ballast model#	\$25.00		Hrs.			
	Lamp model #						
T8 HB 4ft 8L replacing a 400-999W HID (retrofit only)	Ballast model#	\$20.00		Hrs.			
	Lamp model #						
2 fixtures – T8 HB 4ft 8 Lamp (32W) replacing 1,000 W HID (2 for 1 replacement (retrofit only))	Ballast model#	\$60.00		Hrs.			
	Lamp model #						

- Replacement must result in energy savings to qualify.
- All equipment must be new to be eligible for incentives. Used equipment is *not* eligible for incentives.
- All fixtures must operate a minimum of 1,800 hours to be eligible.
- All fluorescent fixtures shall utilize electronic ballast and T-8 lamps.
- Ballasts shall have a power factor greater than 90%.
- Ballasts, harmonic distortion shall not exceed 20%. For 8-foot fluorescent ballasts, the total harmonic distortion shall not exceed 30%.
- Lighting circuits should be installed with a neutral wire that has the same size conductor as the line load.
- All fixtures shall be installed indoors (heated and cooled enclosed space).
- All fixtures, lamps and ballasts must be UL certified and meet all applicable codes and regulations.
- High lumen lamp and low ballast factor ballast combinations are expected.
- Eligible T8 High Bays must have specular/mirror like or white reflectors and fixture efficiency must be >90%.
- *Manufacturers spec sheet is required and must indicate that it is a High Bay fixture and the fixture efficiency is > than 90%. If spec sheet does not list efficiency, a photometric report will be required that indicates total fixture (Luminaire) efficiency rating or the 0-180 degree of lamp rating included in the zonal lumen summary chart.*
- Incentive capped at 50% of the equipment cost.
- New construction or replacement of failed equipment must apply for Self Direct Custom program.

Fixtures = Lamps + Ballast <i>Fixtures must be permanently retrofitted to the lamp count specified. Reflectors may be utilized to maintain necessary lighting levels.</i>	Ballast and Model Numbers	Incentive per fixture	Qty	Annual Operating Hours (minimum of 1800)	Equipment Cost (w/o labor)	Date Installed and Operable (mm/yy)	Total Incentive
T-12 fixtures replaced by T8 with delamping							
T8 8ft 1 lamp replacing T12 8 ft 2 lamp (retrofit only)*	Ballast model# Lamp model #	\$5.00		Hrs.			
T8 4ft 2 lamp replacing T12 4ft 3 lamp (retrofit only)*	Ballast model# Lamp model #	\$2.50		Hrs.			
T8 4ft 1 lamp replacing T12 4ft 2 lamp (retrofit only)*	Ballast model# Lamp model #	\$2.50		Hrs.			
T8 3ft 3 lamp replacing T12 3ft 4 lamp (retrofit only)*	Ballast model# Lamp model #	\$2.00		Hrs.			
T8 3ft 2 lamp replacing T12 3 ft 3 lamp (retrofit only)*	Ballast model# Lamp model #	\$2.00		Hrs.			
T8 3ft 1 lamp replacing T12 3 ft 2 lamp (retrofit only)*	Ballast model# Lamp model #	\$2.00		Hrs.			
T8 2ft 3 lamp replacing T12 2 ft 4 lamp (retrofit only)*	Ballast model# Lamp model #	\$1.50		Hrs.			
T8 2ft 2 lamp replacing T12 2 ft 3 lamp (retrofit only)*	Ballast model# Lamp model #	\$1.50		Hrs.			
T8 2ft 1 lamp replacing T12 2ft 2 lamp (retrofit only)*	Ballast model# Lamp model #	\$1.50		Hrs.			

- Replacement must result in energy savings to qualify.
- All equipment must be new to be eligible for incentives. Used equipment is *not* eligible for incentives.
- All fixtures must operate a minimum of 1,800 hours to be eligible.
- All fluorescent fixtures shall utilize electronic ballast and T-8 lamps .
- Ballasts shall have a power factor greater than 90%.
- Ballasts, harmonic distortion shall not exceed 20%. For 8-foot fluorescent ballasts, the total harmonic distortion shall not exceed 30%.
- Lighting circuits should be installed with a neutral wire that has the same size conductor as the line load.
- All fixtures shall be installed indoors.
- All fixtures, lamps and ballasts must be UL certified and meet all applicable codes and regulations.
- Incentive capped at 50% of the equipment cost.
- New construction or replacement of failed equipment must apply for Self Direct Custom program.

Fixtures = Lamps + Ballast Retrofit fixture replacement – 1:1 ratio (except where otherwise indicated)	Ballast and Model Numbers	Incentive per fixture	Qty	Annual Operating Hours (minimum of 1800)	Equipment Cost (w/o labor)	Date Installed and Operable (mm/yy)	Total Incentive
T12 8ft and 4ft fixture replaced by T8 High Performance Replace T12 and T12 HO 8' fixtures with High Performance T8 4ft lamps and ballast. Approved lamps and ballasts must be listed on the CEE High performance T8 qualified product list found on the web at www.cce1.org .							
High Performance T8 4ft 2 lamp fixture replacing T12 8ft 1 lamp fixture	Ballast model# Lamp model #	\$5.00		Hrs.			
High Performance T8 4ft 4 lamp fixture replacing T12 8ft 2 lamp fixture	Ballast model# Lamp model #	\$5.00		Hrs.			
High Performance T8 4ft 2 lamp fixture replacing T12 High Output 8ft 1 lamp fixture	Ballast model# Lamp model #	\$10.00		Hrs.			
High Performance T8 4ft 4 lamp fixture replacing T12 High Output 8ft 2 lamp fixture	Ballast model# Lamp model #	\$12.50		Hrs.			
High Performance T8 4ft 1 lamp fixture replacing T12 4ft 1 lamp	Ballast model# Lamp model #	\$3.00		Hrs.			
High Performance T8 4ft 2 lamp fixture replacing T12 4ft 2 lamp	Ballast model# Lamp model #	\$4.00		Hrs.			
High Performance T8 4ft 3 lamp fixture replacing T12 4 ft 3 lamp	Ballast model# Lamp model #	\$6.00		Hrs.			
High Performance T8 4ft 4 lamp fixture replacing T12 4 ft 4 lamp	Ballast model# Lamp model #	\$8.00		Hrs.			
T-12 4ft fixture replaced by Reduced Wattage T8 Lighting Replace standard T12 systems with 4' 25W lamps, 28W lamps, and approved CEE ballast. In order to qualify for incentives, bulbs and ballasts must be from CEE reduced-wattage approved list. To view the CEE Reduced Wattage T8 qualified product list, go to www.cce1.org . Note: Reduced Watt T8 compatibility varies; consult manufacturer's literature before specifying products.							
Reduced Wattage T8 4ft 1 lamp of 28W or less & ballast replacing standard T12 4ft 1 lamp – 34 W	Ballast model# Lamp model #	\$4.00		Hrs.			
Reduced Wattage T8 4ft 2 lamp of 28 W or less & ballast replacing standard T12 4 ft 2 lamp – 34 W	Ballast model# Lamp model #	\$5.00		Hrs.			
Reduced Wattage T8 4ft 3 lamp of 28 W or less & ballast replacing standard T12 4 ft 3 lamp – 34 W	Ballast model# Lamp model #	\$7.00		Hrs.			
Reduced Wattage T8 4ft 4 lamp of 28 W or less & ballast replacing standard T12 4 ft 4 lamp – 34 W	Ballast model# Lamp model #	\$9.00		Hrs.			

- Replacement must result in energy savings to qualify.
- All equipment must be new to be eligible for incentives. Used equipment is *not* eligible for incentives.
- All fixtures must operate a minimum of 1,800 hours to be eligible.
- All fluorescent fixtures shall utilize electronic ballast and T-8 lamps.
- Ballasts shall have a power factor greater than 90%.
- Ballasts, harmonic distortion shall not exceed 20%.
- Lighting circuits should be installed with a neutral wire that has the same size conductor as the line load.
- All fixtures shall be installed indoors except where specifically stated.
- All fixtures, lamps and ballasts must be UL certified and meet all applicable codes and regulations.
- Replacement must result in energy savings to qualify.
- High lumen lamp and low ballast factor ballast combinations are expected.
- Normal or low ballast factor ballasts must be utilized to be eligible.
- Reduced watt T8 lamps should not be used in dimming applications unless the lamp and ballast manufacturers have approved a specific application for dimming or frequent switching. May demonstrate dim light, spiraling, pulsing and other undesirable behavior in cooler temperature rooms and while warming up. System performance varies based on lamp or ballast components.
- Incentive capped at 50% of the equipment cost.
- New construction or replacement of failed equipment must apply for Self Direct Custom program.

Fixtures = Lamps + Ballast Retrofit fixture replacement – 1:1 ratio (except where otherwise indicated)	Ballast and Model Numbers	Incentive per fixture	Qty	Annual Operating Hours (minimum of 1800)	Equipment Cost (w/o labor)	Date Installed and Operable (mm/yy)	Total Incentive
T-12 fixtures replaced with T5 Electronic Ballasts							
T5 4ft (28 watt) 1 lamp replacing T12 4ft 1 lamp (retrofit only)	Ballast model# Lamp model #	\$2.50		Hrs.			
T5 4ft (28 watt) 2 lamp replacing T12 4ft 2 lamp (retrofit only)	Ballast model# Lamp model #	\$4.00		Hrs.			
T5 4ft (28 watt) 3 lamp replacing T12 4ft 3 lamp (retrofit only)	Ballast model# Lamp model #	\$5.00		Hrs.			
T5 4ft (28 watt) 4 lamp replacing T12 4ft 4 lamp (retrofit only)	Ballast model# Lamp model #	\$6.00		Hrs.			
T5 HO 4ft 1 (54 watt) lamp replacing 34W T12 4ft 2 lamp (retrofit only)	Ballast model# Lamp model #	\$3.00		Hrs.			
T5 HO 4ft 2 (54 watt) lamp replacing 34W T12 4ft 4 lamp (retrofit only)	Ballast model# Lamp model #	\$4.50		Hrs.			
T5 HO 4ft 2 (54 watt) lamp replacing 60W T12 8 ft 2 lamp (retrofit only)	Ballast model# Lamp model #	\$4.50		Hrs.			
T5 HO 4ft 3 (54 watt) lamp replacing 95W T12 HO 8ft 2 lamp (retrofit only)	Ballast model# Lamp model #	\$5.50		Hrs.			
T5 HO 4ft 4 (54 watt) lamp replacing 60W T12 8ft 4 lamp (retrofit only)	Ballast model# Lamp model #	\$6.50		Hrs.			
T5 HO 4ft 4 (54 watt) lamp replacing 95W T12 VHO 8ft 2 lamp (retrofit only)	Ballast model# Lamp model #	\$6.50		Hrs.			
T5 HO HB 2L replacing 150-249W HID (retrofit only) Fixture efficiency	Ballast model# Lamp model #	\$15.00		Hrs.			
T5 HO HB 3L replacing 250-399W HID (retrofit only) Fixture efficiency	Ballast model# Lamp model #	\$20.00		Hrs.			
T5 HO HB 4L replacing 400-999W HID (retrofit only) Fixture efficiency	Ballast model# Lamp model #	\$25.00		Hrs.			
T5 HO HB 6L replacing 400-999W HID (retrofit only) Fixture efficiency	Ballast model# Lamp model #	\$20.00		Hrs.			
T5 HO HB 8L replacing 750-999W HID (retrofit only) Fixture efficiency	Ballast model# Lamp model #	\$37.50		Hrs.			
2 fixtures -- T5 HO HB 6 Lamp replacing 1,000 W HID (2 for 1 retrofit only) Fixture efficiency	Ballast model# Lamp model #	\$60.00		Hrs.			

- Replacement must result in energy savings to qualify.
- All equipment must be new to be eligible for incentives. Used equipment is *not* eligible for incentives.
- All fixtures must operate a minimum of 1,800 hours to be eligible.
- All fluorescent fixtures shall utilize electronic ballast and T-5 lamps.
- Ballasts shall have a power factor greater than 90%.
- Ballasts, harmonic distortion shall not exceed 20%.
- Lighting circuits should be installed with a neutral wire that has the same size conductor as the line load.
- All fixtures shall be installed indoors
- All fixtures, lamps and ballasts must be UL certified and meet all applicable codes and regulations.
- Replacement must result in energy savings to qualify.
- Eligible T5 High Bays must have specular/mirror like or white reflectors and fixture efficiency must be >90%. *Manufacturers spec sheet is required and must indicate that it is a High Bay fixture and the fixture efficiency is > than 90%. If spec sheet does not list efficiency, a photometric report will be required that indicates total fixture (Luminaire) efficiency rating or the 0-180 degree of lamp rating included in the zonal lumen summary chart.*
- Incentive capped at 50% of the equipment cost.



- New construction or replacement of failed equipment must apply for Self Direct Custom program.

Fixtures = Lamps + Ballast Retrofit fixture replacement – 1:1 ratio (except where otherwise indicated)	Ballast and Model Numbers	Incentive per fixture	Qty	Annual Operating Hours (minimum of 1800)	Equipment Cost (w/o labor)	Date Installed and Operable (mm/yy)	Total Incentive
T-8 Fixtures replaced by High Performance T8 Lighting Replace standard T8 systems with High Performance T8 4ft lamps and ballast. Approved lamps and ballasts must be listed on the CEE High performance T8 qualified product list found on the web at www.ccei.org .							
T8 4ft High Performance 1 lamp & ballast replacing standard T8 4ft 1 lamp fixture	Ballast model# Lamp model #	\$2.00		1 Hrs.			
T8 4ft High Performance 2 lamp & ballast replacing standard T8 4ft 2 lamp fixture	Ballast model# Lamp model #	\$3.00		1 Hrs.			
T8 4ft High Performance 3 lamp & ballast replacing standard T8 4ft 3 lamp fixture	Ballast model# Lamp model #	\$3.10		1 Hrs.			
T8 4ft High Performance 4 lamp & ballast replacing standard T8 4ft 4 lamp fixture	Ballast model# Lamp model #	\$6.00		1 Hrs.			
T-8 Fixtures replaced by Reduced Wattage High Performance T8 Lighting Replace standard T8 systems with 4' 25W lamps, 28W lamps approved CEE ballast OR relamp existing T8 fixtures with reduced wattage T8 lamps 28W or less. In order to qualify for incentives bulbs and ballasts must be from CEE reduced-wattage approved list. To view the CEE Reduced Wattage T8 qualified product list, go to www.ccei.org . Note: reduced wattage T8 compatibility varies; consult manufacturer's literature before specifying products.							
Reduced Wattage T8 4ft 1 lamp of 28W or less & ballast replacing standard T8 4ft 1 lamp – 32W	Ballast model# Lamp model #	\$2.00		1 Hrs.			
Reduced Wattage T8 4ft 2 lamp of 28W or less & ballast replacing standard T8 4ft 2 lamp – 32W	Ballast model# Lamp model #	\$3.00		1 Hrs.			
Reduced Wattage T8 4ft 3 lamp of 28W or less & ballast replacing standard T8 4ft 3 lamp – 32W	Ballast model# Lamp model #	\$5.00		1 Hrs.			
Reduced Wattage T8 4ft 4 lamp of 28W or less & ballast replacing standard T8 4ft 4 lamp – 32W	Ballast model# Lamp model #	\$6.00		1 Hrs.			
Relamp T8 4ft 32W fixtures with Reduced Wattage T8 lamps 28 watts or less	Ballast model# Lamp model #	\$.25 / lamp		1 Hrs.			

- Replacement must result in energy savings to qualify.
- All equipment must be new to be eligible for incentives. Used equipment is *not* eligible for incentives.
- All fixtures must operate a minimum of 1,800 hours to be eligible.
- All fluorescent fixtures shall utilize electronic ballast and T-8 lamps .
- Ballasts shall have a power factor greater than 90%.
- Ballasts, harmonic distortion shall not exceed 20%.
- Lighting circuits should be installed with a neutral wire that has the same size conductor as the line load.
- All fixtures shall be installed indoors except where specifically stated.
- All fixtures, lamps and ballasts must be UL certified and meet all applicable codes and regulations.
- Replacement must result in energy savings to qualify.
- High lumen lamp and low ballast factor ballast combinations are expected.
- Reduced watt T8 lamps should not be used in dimming applications unless the lamp and ballast manufacturers have approved a specific application for dimming or frequent switching. May demonstrate dim light, spiraling, pulsing and other undesirable behavior in cooler temperature rooms and while warming up. System performance varies based on lamp or ballast components.
- Incentive capped at 50% of the equipment cost.
- New construction or replacement of failed equipment must apply for Self Direct Custom program.

CFL Lamps and Fixtures	Incentive	Qty	Annual Operating Hours (minimum of 1800)	Equipment Cost (w/o labor)	Date Installed and Operable (mm/yy)	Total Incentive
42W 8 lamp HB CFL replacing 400W HID (retrofit only) Model Number	\$25.00		Hrs.			
CFL – Screw In (lamp only) replacing an incandescent (retrofit only) Model Number	\$0.75 / lamp		Hrs.			
CFL – Screw-In dimmable or 3-way bulb replacing an incandescent dimmable or 3-way bulb (retrofit only) Model Number	\$1.00 / lamp		Hrs.			
CFL – Hardwired Fixture replacing incandescent fixture (only pin based CFL's qualify) Model Number	\$5.00 / fixture		Hrs.			
Up to 30W CFL Flood Lamp with Reflector replacing 100W or less incandescent (retrofit only) Model Number	\$1.50 / lamp		Hrs.			
33W – 115W CFL lamp replacing 100 W or more incandescent Model Number	\$2.50 / lamp		Hrs.			
Energy Star LED Lamps						
Replace incandescent bulbs with Energy Star LED (retrofit only) <i>LED lamps must be listed on the Energy Star Qualified Light Bulbs list to qualify.</i> http://www.energystar.gov/index.cfm?fuseaction=iledl.display_products_pdf Model Number	\$5.00 / lamp		Hrs.			
Replace 60-100W incandescent with ENERGY STAR qualified LED downlight 18 Watts or less. (retrofit only) <i>Product must appear on ENERGY STAR Qualified LED Lighting qualified products list, and must contain the word "downlight".</i> http://www.energystar.gov/index.cfm?fuseaction=ssl.display_products_com_pdf Model Number	\$7.50 / fixture		Hrs.			

- Replacement must result in energy savings to qualify.
- All equipment must be new to be eligible for incentives. Used equipment is *not* eligible for incentives.
- Lighting circuits should be installed with a neutral wire that has the same size conductor as the line load.
- All fixtures shall be installed indoors except where specifically stated.
- All fixtures, lamps and ballasts must be UL certified and meet all applicable codes and regulations.
- All fixtures must operate a minimum of 1,800 hours to be eligible.

Metal Halide						
320W Pulse Start Halide replacing 400W HID (retrofit only) **check one <input type="checkbox"/> R <input type="checkbox"/> FF Model Number	\$12.50		Hrs.			
Ceramic Metal Halide						
20W Ceramic Metal Halide fixture replacing <input type="checkbox"/> Incandescent or <input type="checkbox"/> Halogen of at least 100 W Model Number	\$15.00		Hrs.			
39W Ceramic Metal Halide fixture replacing <input type="checkbox"/> Incandescent or <input type="checkbox"/> Halogen of at least 150 W Model Number	\$15.00		Hrs.			
50W Ceramic Metal Halide fixture replacing <input type="checkbox"/> Incandescents or <input type="checkbox"/> Halogen for a total of 195W Model Number	\$15.00		Hrs.			
70W Ceramic Metal Halide fixture replacing <input type="checkbox"/> Incandescents or <input type="checkbox"/> Halogen for a total of 225W Model Number	\$15.00		Hrs.			
100W Ceramic Metal Halide fixture replacing <input type="checkbox"/> Incandescents or <input type="checkbox"/> Halogens for a total of 270W Model Number	\$15.00		Hrs.			
150W Ceramic Metal Halide fixture replacing <input type="checkbox"/> Incandescents or <input type="checkbox"/> Halogens for a total of 360W Model Number	\$15.00		Hrs.			
25 W or less Ceramic Metal Halide with integral ballast replacing 70 W or greater incandescent flood light Model Number	\$5.00/lamp		Hrs.			

- Replacement must result in energy savings to qualify.
- All equipment must be new to be eligible for incentives. Used equipment is *not* eligible for incentives.
- Lighting circuits should be installed with a neutral wire that has the same size conductor as the line load.
- All fixtures shall be installed indoors except where specifically stated.
- All fixtures, lamps and ballasts must be UL certified and meet all applicable codes and regulations.
- All fixtures must operate a minimum of 1,800 hours to be eligible.
- Incentives for pulse start metal halide fixtures are for 320w pulse start metal halide lamp/ballast combinations. In a retrofit application, the fixture must be hard-wired ballast retrofit or new fixture. Screw in retrofit lamps do not qualify. Pulse start lamp wattage must be lower than existing probe start lamp wattage.
- Ceramic Metal Halide Incentive is for complete hardwired fixtures containing ceramic metal halide lamp and electronic ceramic metal halide ballast.
- Incentive capped at 50% of the equipment cost.
- New construction or replacement of failed equipment must apply for Self Direct Custom program.

Measure	Incentive	Qty	Annual Operating Hrs (minimum of 1800)	Equipment cost (w/o labor)	Date Installed and Operable (mm/yy)	Total Incentive
21" Tubular Skylight/Light Tube (at least one light fixture per light tube must be controlled by a "daylight" sensor (no additional daylight sensor incentive applies) Check One ** <input type="checkbox"/> R <input type="checkbox"/> NC <input type="checkbox"/> FE Model Number	\$37.50 / fixture					
LED Exit Signs (replacing or retrofitting existing incandescent or compact fluorescent exit sign) Check one <input type="checkbox"/> R <input type="checkbox"/> NC <input type="checkbox"/> FE Model Number	\$5.00 / fixture					
LED Lighting In Reach-in Freezer or Cooler Case (replacing fluorescent fixtures) Model Number	\$25.00 / door					
LED Case Lighting Sensor Controls Check one <input type="checkbox"/> R <input type="checkbox"/> NC <input type="checkbox"/> FE Model Number Model Number	5.00 / sensor					
Under 500 W connected to sensor check one <input type="checkbox"/> R <input checked="" type="checkbox"/> NC <input type="checkbox"/> FE Model Number Hubbell lighthawk Series	\$10.00 / sensor	29	3570	\$1,595.00	07/09	\$290.00
Over 500 W connected to sensor check one <input type="checkbox"/> R <input checked="" type="checkbox"/> NC <input type="checkbox"/> FE Model Number Hubbell Omni DT Series	\$20.00 / sensor	3	3570	\$1,100.00	07/09	\$60.00

- Replacement must result in energy savings to qualify
- All equipment must be **new** to be eligible for incentives. Used equipment is *not* eligible for incentives.
- Lighting circuits should be installed with a neutral wire that has the same size conductor as the line load.
- All fixtures shall be installed indoors except where specifically stated.
- All fixtures, lamps and ballasts must be UL certified and meet all applicable codes and regulations.
- All fixtures must operate a minimum of 1,800 hours to be eligible.
- Tubular Skylight requires at least one light fixture per light tube that must be controlled by a "daylight" sensor (no additional daylight sensor incentive applies)
- LED exit signs shall use 5 watts or less including the battery charger when active. They must meet State Fire Marshal codes and be UL rated.
- Occupancy Sensors (under and over 500) must be either wall, ceiling, or fixture mounted. Rapid or programmed start ballasts are recommended for fluorescent fixtures.
- Occupancy Sensors (under 500W) installed on or built into High Bay fixtures are eligible for incentives.
- LED Lighting in Reach-in Freezer or Cooler Case: Must install a LED lighting system and replace (or in lieu of) a fluorescent lighting system for reach-in refrigerated display case.
- Fluorescent magnetic ballasts cannot be used to power the LED case lighting system. Existing fluorescent fixture end connectors and ballasts must be removed.
- LED case lighting system must be a permanently installed luminaire. LED lamps that install into fluorescent lamp sockets are not eligible for incentives.
- LED Case Lighting Sensor Controls may only be installed with LED lighting systems. End of aisle and individual case sensors qualify.
- Incentive capped at 50% of the equipment cost.
- New construction or replacement of failed equipment must apply for Self Direct Custom program.

Outdoor Lighting	Incentive	Qty	Annual Operating Hrs (minimum of 1800)	Equipment cost (w/o labor)	Date Installed and Operable (mm/yy)	Total Incentive
Exterior LED or Induction fixture replacing up to 175W HID Model Number	\$20 / fixture					
Exterior LED or Induction fixture replacing 176W – 250W HID Model Number	\$25 / fixture					
Exterior LED or Induction fixture replacing 251W – 400W HID Model Number	\$40 / fixture					
Exterior LED or Induction fixture replacing > 400 W HID Model Number	\$75/ fixture					
Garage LED or Induction fixture replacing up to 175 W HID Model Number	\$50/ fixture					
Garage LED or Induction fixture replacing 176W – 250W HID Model Number	\$75/ fixture					
Garage LED or Induction fixture replacing 251W – 400 W HID Model Number	\$125/ fixture					
Garage LED or Induction fixture replacing > 400 W HID Model Number	\$200/ fixture					
LED Auto Traffic Signals (replacing incandescent) Model Number	\$6.25 / lamp					
LED Pedestrian Signals (replacing incandescent) Model Number	\$12.50/ signal					

- Replacement must result in energy savings to qualify
- All fixtures, lamps and ballasts must be UL certified and meet all applicable codes and regulations.
- All fixtures must operate a minimum of 1,800 hours to be eligible.
- equipment must be **new** to be eligible for incentives. Used equipment is *not* eligible for incentives. All
- r and garage LED and induction lighting must result in a total power **reduction** of 40% or more. Outdo
- r and garage LEDs should be listed on either the Energy Star or Design Lights consortium qualifying products lists: Outdo
 1. http://www.energystar.gov/index.cfm?fuseaction=ssl.display_products_con_pdf
 2. <http://www.designlights.org/documents/NEEPDLCQPL.xls>
- and pedestrian signals using LED lights must replace conventional incandescent signals. Traffic
- ve capped at 50% of the equipment cost. Incenti
- construction or replacement of failed equipment must apply for Self Direct Custom program. New

Program Requirements

Incentive Eligibility

- Incentives are only available to customers on a Duke Energy Ohio non-residential rate.
- Duke Energy Customers who purchase electric generation from an alternative supplier are eligible to participate.
- Incentive will not be paid until eligible equipment has been installed, is available to operate, and verification has been completed by Duke Energy staff as noted in the Term & Conditions stated below.
- Duke Energy reserves the right to revise incentive levels and/or qualifying efficiency levels at any time.
- Customer may assign the incentive to the vendor who installed/supplied the equipment. The customer's signature is required in the Payment Information section on page 1 of this form to assign the incentive to the vendor. Customer agrees that such an action constitutes an irrevocable assignment of the incentive. This assigned incentive must reduce the purchase price paid for the equipment by an equivalent amount.
- Leased equipment is eligible for incentives providing the equipment meets the program requirements and the customer provides the required documentation noted on the Incentive Application Process page of this application.
- Any equipment which, either separately or as part of a project, has or will receive an incentive from any other Duke Energy program is ineligible.
- In no case will Duke Energy pay an incentive above the actual cost of the new equipment.
- Incentive recipient assumes all responsibilities for any tax consequences resulting from Duke Energy incentive payment.
- To qualify for Duke Energy incentives, applicants who provide their social security number as their federal tax identification number for tax purposes must sign and return the "Customer consent to release personal information" form ("Consent Form") along with the application. Incentive applications are processed by a 3rd party vendor. The 3rd party vendor is responsible for mailing the 1099 form at the end of the calendar year for tax filing. Duke Energy and the 3rd party vendor have signed a confidentiality agreement to protect your personal information. If your social security number is your federal tax ID number and you elect not to sign the Consent Form, please do not send Duke Energy the application, as you will not be qualified to participate in the incentive program.



Terms and Conditions

I certify that this premise is served by Duke Energy (or an affiliate of Duke Energy), that the information provided herein is accurate and complete, and that I have purchased and installed the high efficiency equipment (indicated herein) for the business facility listed herein and not for resale. Attached is an itemized invoice for the indicated installed equipment. I understand that the proposed incentive payment from Duke Energy is subject to change based on verification and Duke Energy approval. I agree to Duke Energy verification of both the sales transaction and equipment installation which may include a site inspection from a Duke Energy representative or Duke Energy agent. I understand that I am not allowed to receive more than one incentive from Duke Energy on any piece of equipment. I also understand that my participation in the program may be taxable and that my company is solely responsible for paying all such taxes. I hereby agree to indemnify, hold harmless and release Duke Energy and its affiliates from any actions or claims in regards to the installation, operation and disposal of equipment (and related materials) covered herein including liability from an incidental or consequential damages. Duke Energy does not endorse any particular manufacturer, product or system design within these programs; does not expressly or implicitly warrant the performance of installed equipment (Contact your contractor for details regarding equipment warranties) and 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.

Incentive Application Instructions

IMPORTANT NOTICE

Delays in processing incentive payments will occur if required documentation is not included with completed application(s).

1. Contact Duke Energy toll free at 866-380-9580 to confirm customer eligibility. Applications are available for download at www.duke-energy.com.
2. Review program and equipment requirements on the incentive application. (Page7)
3. Purchase and install eligible energy-efficient equipment.
4. Complete and submit application for equipment that was installed after 1/1/2008.
5. **The following items must be included to verify projects. If they are not included, it will delay payment of incentive.**
 - A. Itemized invoice for all equipment installed to include:
 - a. Equipment cost
 - b. Quantity per equipment type installed
 - c. Model # for each equipment type
 - d. Manufacturer's data sheet for each equipment model #.
 - B. **Make sure the account number provided on the cover page (customer information section) is associated with the location where the equipment was installed. If the account # does not match the address where the equipment was installed, the application will be rejected as ineligible.**
 - C. Provide required tax ID# for payee.
 - D. Customer must sign and date the application after reviewing the Terms and Conditions. If customer wishes to assign payment of the incentive directly to the vendor, the customer should circle the appropriate payee in the Payment Information section of the application and sign their name to authorize payment.
6. Duke Energy may require site verification of projects that have been self-installed, prior to payment of incentive.
8. Email the complete, signed application with all required documents to SelfDirect@duke-energy.com or fax to 513-419-5572.
8. A percentage of equipment installations will be site verified for quality assurance purposes. Once selected, a Duke Energy representative will contact the customer to arrange for the inspection. All incentive payments related to the project will be withheld until site verification is complete. There is no charge to the customer for these inspections.

Mercantile Self Direct Rebate Program Requirements for Vendor Participation

Program Overview

- Duke Energy offers its eligible non-residential customers the opportunity to increase profitability through energy cost savings and contribute to a cleaner environment by participating in our Mercantile Self Direct Incentive Program.
- Under the Duke Energy Mercantile Self Direct Incentive Program, Vendor is defined as any third party who:
 - Promotes the sale and installation of the high efficiency equipment for the customer. The Vendor will ensure that the eligible equipment is installed and operating before submitting the application or assisting the customer in completing the application.
 - Is responsible for the product sale only and is not required to ensure installation of the eligible equipment.
- All license requirements, if any, are solely the Vendor's responsibility. Participating Vendors include equipment contractors, equipment Vendors, equipment manufacturers and distributors, energy service companies, etc. The typical Vendor role is to contact/solicit eligible customers building new or retrofitting existing facilities and encourage the installation of the energy-efficient equipment offered in Duke Energy's program.
- Incentives are paid directly to customers unless the customer assigns the incentive to the Vendor. The assigned incentive must reduce the purchase price paid for the equipment by an equivalent amount. Incentives are taxable to the entity who receives the rebate check. Rebates greater than \$600 will be reported to the IRS unless documentation of tax exempt status is provided.

Vendors can sign up to be on Duke Energy's Web site as a participating Vendor and be added to Duke Energy's e-mail distribution by emailing the Vendor Participation Agreement (VPA) to SelfDirect@duke-energy.com or faxing to 513-419-5572.

Guidelines for Vendor Activities

- Vendors shall sign and return the attached VPA to Duke Energy prior to soliciting customer participation or when submitting an application. Rebate payments will not be released to a Vendor unless a signed VPA is on file.
- Vendors shall not misrepresent the nature of their role in the program. In particular, Vendors shall not state or imply to customers, or any persons, that the Vendor is employed by or working on Duke Energy's behalf.
- Vendors may not represent to customers that Duke Energy endorses their specific products or services. Duke Energy does not endorse specific products, services, or companies – only energy-efficient technologies.
- Vendors may advise customers of their option to have Duke Energy make their rebate check(s) payable to the Vendor if the customer's rebate amount is being deducted from the total sale price in advance. The customer must complete and sign the Payment Release Authorization section of the Mercantile Self Direct Incentive Program Application.
- Vendors may use the words "Duke Energy's Mercantile Self Direct Incentive Program" in promotional materials or advertisements. Vendors may use the name Duke Energy in a text format to describe the Mercantile Self Direct Incentive Program, but are not permitted to use Duke Energy's logos.
- For Vendors who properly install the qualifying equipment, the equipment shall be installed and operating prior to an application being submitted. A percentage of each Vendor's installations will be subject to inspection by Duke Energy for verifying that the equipment is installed and operating. Vendors demonstrating high failure rates (based on a statistically significant sample) will have 100% of subsequent jobs inspected or may have their participation in the Mercantile Self Direct Incentive Program revoked by Duke Energy in its sole discretion.
- Vendors shall provide customers with applicable equipment warranty information for all measures installed. Vendors shall provide the required documentation for customers to apply for the rebate (invoices with model numbers and quantities, specification sheets for installed equipment, etc.) and assist customers in filling out the application.
- Vendors shall comply with all applicable local, state, and federal law and codes when performing installation and related functions.
- Duke Energy reserves the right to revoke a Vendor's participation in Mercantile Self Direct Incentive Program if, in Duke Energy's sole judgment, the Vendor fails to comply with the program's guidelines and requirements.
- Mercantile Self Direct Incentive Program offerings may be modified or terminated without prior notice. Check Duke Energy's Web site for current program status.

For more information, call 1-866.380.9580 or visit www.duke-energy.com.



Mercantile Self Direct Incentive Program

Technology	Responsible for sales and not installs*	Responsible for sales and Installation*	Technology	Responsible for sales and not installs*	Responsible for sales and Installation*
Lighting	<input type="checkbox"/>	<input type="checkbox"/>	Thermal Storage	<input type="checkbox"/>	<input type="checkbox"/>
Heating Ventilation & Cooling	<input type="checkbox"/>	<input type="checkbox"/>	Pumps/Motors/VFD's	<input type="checkbox"/>	<input type="checkbox"/>
Food Service	<input type="checkbox"/>	<input type="checkbox"/>	Chillers	<input type="checkbox"/>	<input type="checkbox"/>
Water Heating	<input type="checkbox"/>	<input type="checkbox"/>	Refrigeration	<input type="checkbox"/>	<input type="checkbox"/>
Process Equipment (air compressors, injection molding, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	Window Film	<input type="checkbox"/>	<input type="checkbox"/>

* Check all that apply

Vendors who wish to be listed as a Mercantile Self Direct Incentive Program participating Vendor shall complete this form. A signed copy of this form must be on file at Duke Energy in order for the Vendor to receive incentive payments. Fax form to 513-419-5572 or email to SelfDirect@duke-energy.com.

I have read and understand the Mercantile Self Direct Incentive Program Requirements for Vendor Participation, and I agree to comply with all requirements set forth therein. By signing this agreement, I agree to provide my customers with information and documentation that is true and accurate to the best of my knowledge. I hereby represent and warrant that the Tax ID and Vendor Tax Status provided below are true and accurate. I agree that any confidential information concerning my customer, including but not limited to Duke Energy service account information, will be used for the sole purpose of facilitating the customer's participation in the Mercantile Self Direct Incentive Program. Further, I understand that I am responsible for making sure everyone working for me understands the requirements prior to soliciting customer participation.

Vendor Federal Tax ID Number	
------------------------------	--

To qualify for Duke Energy incentives, applicants who provide their social security number as their federal tax identification number for tax purposes must sign and return the "Customer consent to release personal information" form ("Consent Form") along with the application. Incentive applications are processed by a third-party vendor. The third-party vendor is responsible for mailing the 1099 form at the end of the calendar year for tax filing. Duke Energy and the third-party vendor have signed confidentiality agreement to protect your personal information. If your social security number is your federal tax ID number and you elect not to sign the Consent Form, please do not send Duke Energy the application, as you will not be qualified to participate in the incentive program.

Vendor Tax Status	<input type="checkbox"/> Corporation	<input type="checkbox"/> Individual/Sole Proprietor	<input type="checkbox"/> Partnership	<input type="checkbox"/> Other
-------------------	--------------------------------------	---	--------------------------------------	--------------------------------

Contact me via	<input type="checkbox"/> Phone	<input type="checkbox"/> E-Mail	<input type="checkbox"/> Mail
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Company Name	
Mailing Address	
City, State, Zip	
Phone/Fax	
Primary E-mail Address	
Secondary E-mail Address	
Vendor Signature	
Title	
Print Name	
Date	

For more information, call 1-866-380-9580 or visit www.duke-energy.com.

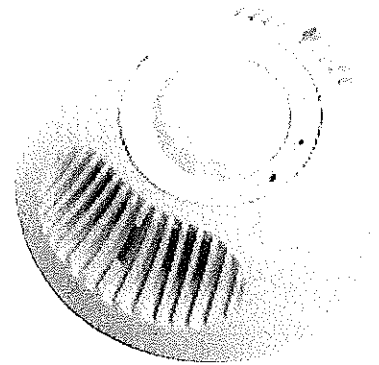


Hubbell Building Automation, Inc.

OMNI-DT/OMNI-DT-RP (Option RP) Dual Technology Ceiling Mount Sensor

KEY FEATURES

- INTELLIGENT – Continuously Adapting sensor.
- Ultrasonic & Infrared Sensing
- Simple, Fast Installation
- Snap-Lock Sensor, Ceiling Mounting
- Excellent false tripping immunity
- Non-Volatile Memory: settings saved in protected memory are not lost during power outages.
- Optional Photocell Control and Relay
- 500 to 2000 sq. ft. mounted at 8'
- Multiple Sensor and Power Pack Connections
- 24VDC, Class 2 low voltage wiring
- Designed & Manufactured in USA



GENERAL OPERATION

Occupancy sensors have two tasks; keeping the lights on while the room is occupied and keeping the lights off when unoccupied. Hubbell Building Automation's intelligent, continuously adapting sensor technology eliminates manual sensitivity and timer adjustments during installation and over the life of the product. The self-adapting microprocessor constantly assures maintenance free "Install and Forget" operation.

The OMNI-DT is a ceiling mount occupancy sensor that combines both ultrasonic (US) and passive infrared (PIR) sensing. Hubbell Building Automation's self-adapting OMNI-DT addresses areas with complex environments that are difficult to control with single technology sensors. The internal microprocessor analyzes the information from both the US and PIR technologies and determines the optimum setting to use in order to properly cover the space. The automatic timer and automatic sensitivity features of the Omni-DT work independently to prevent "false-offs" and

"false-ons." When the sensor detects motion immediately after it turns the lights out, a "false-off" is detected, timer and sensitivity are increased. If the sensor turns the lights on, but detects no immediate follow-up motion, "false-on" is detected, timer and sensitivity are decreased. The "Intelligent software" algorithm determines, for example, if the lights are staying on due to adjacent hallway traffic and responds by adapting its program to compensate for the false trigger and turns out the lights. The OMNI-DT is the sensor replacement combining both the superior minor motion detection of ultrasonic with the excellent long-range major motion detection of passive infrared.

In addition, the OMNI-DT has an optional photocell, which increases energy savings when engaged by preventing the lights from turning on when there is sufficient natural light. This feature is factory disabled and may be activated by the installer.

The OMNI-DT is the sensor replacement combining both the superior minor motion detection of ultrasonic with the excellent long-range major motion detection of passive infrared.

Designed specifically to meet the challenges found in rooms where tasks entail minor motion for long periods of time. Ultrasonic (doppler shift) motion detection gives maximum sensitivity yet can be vulnerable to false triggering from air conditioning currents, corridor activity and movement of inanimate objects. Infrared motion detection gives immunity to these false triggers, but lacks sensitivity at greater distances. Hubbell Building Automation's intelligent software reads the environment and adapts to meet these specific challenges. Should the room suddenly be reallocated into a copy room with high traffic patterns, the intelligent software will adapt as needed to provide the correct time out for the



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lights. Using PIR sensing (high error immunity) with US (high sensitivity) provides good performance. Conventional ceiling mounted dual tech sensors use a simple formula for operation: BOTH for ON, EITHER for KEEP ON. This method requires that both sensors receive fixed-strength signals for ON or a single fixed-level signal for KEEP ON. The OMNI-DT uses a more sophisticated method called a composite signal where the signal strengths are added together to form a composite sum. The advantage of this method is that a weak PIR signal plus a strong US signal will turn the lights on because the sum is enough. The installer need not worry that the signal level be balanced for reliable lights on. This technology eliminates time consuming adjustments and callbacks found in non-intelligent sensors.

The sensor requires a 24V DC, MP Series power pack. The mounting base, provided with the sensor, allows quick and easy mounting.

ADAPTIVE FUNCTIONS

The OMNI constantly analyzes and adapts to changing conditions:

Period	Time	Action
Installation	60 minutes	Timer automatically resets from Test (8 seconds) to 8 minutes.
Learning	Four weeks	1. Response to Error Conditions: (false-ons, false offs) 2. Air current adaptation 3. Timer optimization

Adjustments Made:

- Ultrasonic sensitivity
- Infrared sensitivity
- Timer
- Air current threshold

Post learning Occupancy Periods (Circadian)	After Four weeks	1. 24 hour occupancy periods learned (circadian) 2. Weekly occupancy periods learned
---	------------------	---

Adjustments Made:

- a. Generally occupied periods: Threshold+High Sensivity mode
- b. Generally unoccupied periods: Threshold=Miser mode

SPECIFICATIONS

LED Lamp: Red Infrared motion, Green Ultrasonic motion

Construction: Two ultrasonic transmitters and two narrow bandwidth receivers each 16mm in diameter. Frequency — Crystal controlled to ±.005%. Transducers — Oriented north and south (DT2000 only, others use single pairs), angled 30° down from horizontal. Housing — Rugged, high-impact, injection molded plastic KJB ABS Cyolac (UL-945VA)

flame class rating, UV inhibitors. Color-coded leads are 6".
4.5" dia., 1.5" height; 5 oz. (114 mm dia., 38 mm height; 142 g.)
White.

Size & Weight: 4.5" dia., 1.5" height; 5 oz. (114 mm dia., 38 mm height; 142 g.)

Color: White.

Power Requirements: 24 VDC, 33 mA (use MP-series power pack.)

Timer Setting: Automatic - 8 min. to 32 min.; test mode - 8 seconds

Output: 24 VDC active high logic control signal with short circuit protection and optional dry contact (see -RP option).

Operating Environment: 32°F to 104°F (0°C to 40°C); 0% to 95% non-condensing, relative humidity. For indoor use only.

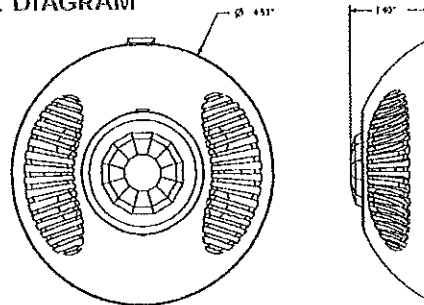
RP Option: Relay and Photocell Included (both). Relay: NO + NC contacts, 500ma rated @ 24vdc, three wire, isolated relay. Photocell, 0-1000 Lux adjustable.

Warranty: 5 years limited.

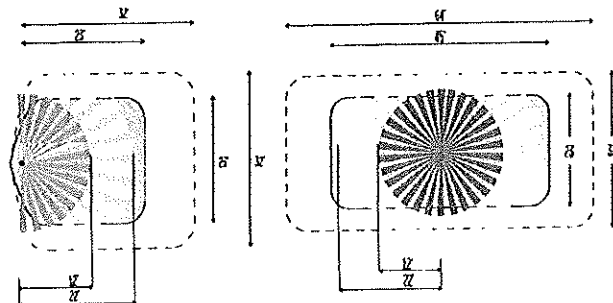
MODELS

Cat. No.	Color	Coverage	Application
OMNI-DT500	Off White	500 sq. ft.	Private Office
OMNI-DT500-RP	Off White	500 sq. ft.	Private Office
OMNI-DT1000	Off White	1000 sq. ft.	Open Office
OMNI-DT1000-RP	Off White	1000 sq. ft.	Open Office
OMNI-DT2000	Off White	2000 sq. ft.	Open Office
OMNI-DT2000-RP	Off White	2000 sq. ft.	Open Office

RANGE DIAGRAM



ORTHOGRAPHIC PROJECTION



DT-1000 Range Diagram
DT-500 Range Pattern is not provided

DT-2000 Range Diagram

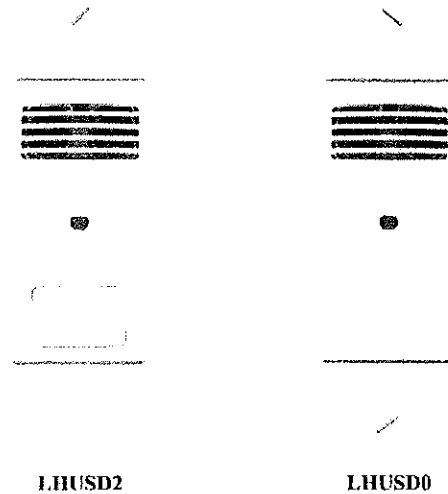




Wall Switch Occupancy Sensors
LightHawk™ Ultrasonic Dual Circuit
Wall Switch Sensor featuring IntelliDAPT®

KEY FEATURES

- All-digital ultrasonic (US) sensor
• IntelliDAPT self-adaptive technology—no manual adjustment required
• 2 relays for two-level switching or dual-circuit control
• Auto-on and manual-on operating modes (depending on model)
• 400 square-foot, 180° coverage area
• Built-in photocell with SuperSaver™ mode
• Dual 120/277 VAC operation
• No minimum load requirement
• Zero Arc Point Switching
• ETL, UL, and cUL listed
• 5-year warranty



OVERVIEW

LHUSD sensors use ultrasonic (US) technology for unequalled occupancy detection and false trip immunity, providing improved accuracy. The sensors, designed for dual-level lighting applications, possess 2 primary circuits (each with independent switching). LHUSD sensors feature Hubbell Building Automation's patented IntelliDAPT technology, which makes all the sensor adjustment decisions automatically. Throughout the product's lifespan, smart software analyzes the controlled area and makes digital adjustments to sensitivity and timer settings. Occupancy sensors with IntelliDAPT provide a maintenance-free "Install and Forget" operation. With selectable operating modes—automatic ON/OFF or manual ON/automatic OFF—and a built-in photosensor for automatic daylight harvesting, LHUSD sensors are the most capable choice in today's market place.

FEATURES and BENEFITS

Table with 2 columns: Features and Benefits. Rows include IntelliDAPT technology, All-digital ultrasonic (US) sensor, 2 relays for either two-level switching or dual-load control, Auto-on and manual-on operating modes (depending on model), Tamper-proof automatic-only version available, and Built-in photocell with optional SuperSaver mode.

SPECIFICATIONS

IntelliDAPT technology	<ul style="list-style-type: none"> • Self-adjusting timer • Self-adjusting ultrasonic (US) sensitivity • Automatic false-on/false-off corrections • No manual adjustments required
Timer timeout	<ul style="list-style-type: none"> • Auto mode: 4–30 minutes; self-adjusts based on occupancy • Fixed mode: 4, 8, 15, and 30 minutes • Test mode: 5 seconds
Ultrasonic (US) output	<ul style="list-style-type: none"> • 40kHz output
Photocell	<ul style="list-style-type: none"> • Natural light override range: 10–500 foot-candles
Coverage	<ul style="list-style-type: none"> • 400 square-foot, 180° coverage area
Power requirements	<ul style="list-style-type: none"> • 120/277 VAC; 50/60Hz
Electrical ratings	<ul style="list-style-type: none"> • 120VAC: 800W Incandescent; 1,000W Fluorescent; 1/6 HP • 277VAC: 1,800W Fluorescent; 1/6 HP
Load requirements	<ul style="list-style-type: none"> • None
Operating environment	<ul style="list-style-type: none"> • Indoor use only • Operating temperature: 32°–104° F (0°–40° C) • Relative humidity (non-condensing): 0–95%
Construction	<ul style="list-style-type: none"> • Casing—high-impact injection-molded plastic (UL-94-5V) • Color-coded leads are 6" long
Size and weight	<ul style="list-style-type: none"> • Size: 4.2" x 1.8" x 2.1"; .37" extension • Weight: 2.9 oz
Color	<ul style="list-style-type: none"> • White; Ivory; Light Almond; Gray; Black
Mounting	<ul style="list-style-type: none"> • Single-gang NEMA-style switch box (average switch box) • Decorator-style wall plate not included
Certifications	<ul style="list-style-type: none"> • ETL, UL, and cUL listed
Warranty	<ul style="list-style-type: none"> • 5 years

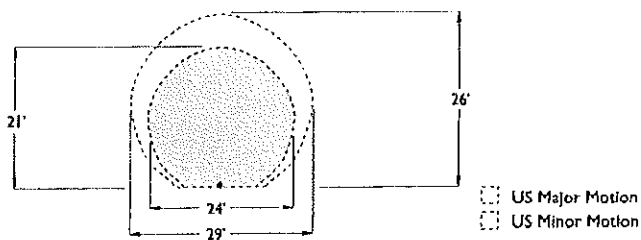
HOW TO ORDER

Catalog Number	Description
LHUSD2*	Ultrasonic Dual Circuit Wall Switch Sensor with IntelliDAPT and Automatic/Manual Control, 120/277VAC
LHUSD0*	Ultrasonic Dual Circuit Wall Switch Sensor with IntelliDAPT and Automatic Only Control, 120/277VAC

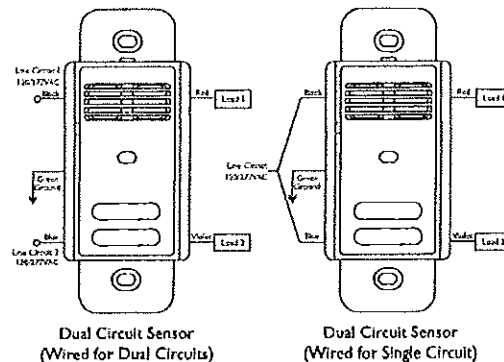
* = W – White, I – Ivory, A – Light Almond, G – Gray, B – Black

RANGE DIAGRAM

*Refer to Application Guide.



WIRING DIAGRAM



Building Automation, Inc.

Hubbell Building Automation, Inc.

9601 Dessau Road Building One Austin, Texas 78754
 (512) 450-1100 (512) 450-1215 fax
 hubbell-automation.com



SERVICES DEPARTMENT
WEST CHESTER TOWNSHIP, OHIO

DATE: June 5, 2012

RE: West Chester Township Library
Confirmation Cost Information for Lighting/Pumps/Motors/Chillers
Application ID 114926

To Whom It May Concern:

This letter is to confirm that for the renovation to the lighting system of the West Chester Township Library for the MSD Custom rebate applications, the lighting project was installed with a minimum unit cost listed below.

Description/Model#	Quantity	Price/Fixture	Amount
Hubbell Lighthawk	29	\$55.00	\$1,595.00

Total Equipment Cost: \$1,595.00

Sincerely yours,

A handwritten signature in black ink, appearing to read "Tim Franck".

Tim Franck
West Chester Community Services Director

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 1-513-419-5572.

Mercantile customers, defined as using at least 700,000 kWh annually are eligible for the Mercantile Self Direct program. Please indicate mercantile qualification:

- a single Duke Energy Ohio account
- multiple accounts in Ohio (energy usage with other utilities may be counted toward the total)

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

Account Number	Annual Usage	Account Number	Annual Usage
2430-3699-01-1	723,400		

Self Direct rebates are available for completed Custom projects that have not previously received a Duke Energy Smart \$aver® Custom Incentive. Self Direct incentives 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 requirements dictate that certain projects that may be Prescriptive in nature under the Smart \$aver program must be evaluated using the Custom process. Use the table on page two as a guide to determine which Self Direct program fits your project(s). Apply for Self Direct projects using the appropriate application forms in conjunction with this cover sheet. Where Mercantile Self Direct Prescriptive applications are listed, please refer to the measure list on that application. If your measure is not listed, you may be eligible for a Self Direct Custom rebate. Self Direct Custom applications, like Smart \$aver Custom applications, should include detailed analysis of pre-project and post-project energy usage and project costs. Please indicate which type of rebate applications are included in the table provided on page two.

Please check each box to indicate completion 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.

Application Type	Replaced equipment at end of lifetime or because equipment failed**	Replaced fully operational equipment to improve efficiency***	New Construction
Lighting	MSD Custom Part 1 <input type="checkbox"/> Custom Lighting Worksheet <input type="checkbox"/>	MSD Prescriptive Lighting <input type="checkbox"/>	MSD Prescriptive Lighting <input type="checkbox"/>
		MSD Custom Part 1 <input type="checkbox"/> Custom Lighting Worksheet <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> Custom Lighting Worksheet <input type="checkbox"/>
Heating & Cooling	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	MSD Prescriptive Heating & Cooling <input type="checkbox"/>
			MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>
Window Films, Programmable Thermostats, & Guest Room Energy Management Systems	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General and/or EMS Worksheet(s) <input type="checkbox"/>	MSD Prescriptive Heating & Cooling <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General and/or EMS Worksheet(s) <input type="checkbox"/>
Chillers & Thermal Storage	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	MSD Prescriptive Chillers & Thermal Storage <input type="checkbox"/>
			MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>
Chiller Tune-ups	MSD Prescriptive Chiller Tune-ups <input type="checkbox"/>	MSD Prescriptive Chiller Tune-ups <input type="checkbox"/>	MSD Prescriptive Chiller Tune-ups <input type="checkbox"/>
Motors & Pumps	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	MSD Prescriptive Motors, Pumps & Drives <input checked="" type="checkbox"/>
			MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>
VFDs	Not Applicable	MSD Prescriptive Motors, Pumps & Drives <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> MSD Custom VFD Worksheet <input type="checkbox"/>
		MSD Custom Part 1 <input type="checkbox"/> MSD Custom VFD Worksheet <input type="checkbox"/>	
Food Service	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	MSD Prescriptive Food Service <input type="checkbox"/>
			MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>
Air Compressors	MSD Custom Part 1 <input type="checkbox"/> MSD Custom Compressed Air Worksheet <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> MSD Custom Compressed Air Worksheet <input type="checkbox"/>	MSD Prescriptive Process <input type="checkbox"/>
			MSD Custom Part 1 <input type="checkbox"/> MSD Custom Compressed Air Worksheet <input type="checkbox"/>
Process	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	MSD Prescriptive Process <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>
		MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	
Energy Management Systems	MSD Custom Part 1 <input type="checkbox"/> MSD Custom EMS Worksheet <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> MSD Custom EMS Worksheet <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> MSD Custom EMS Worksheet <input type="checkbox"/>
Behavioral*** & No/Low Cost	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>		

** Under the Self Direct program, failed equipment and equipment at the end of its useful life are evaluated differently than early replacement of fully functioning equipment. All equipment replacements due to failure or old age will be evaluated via the Custom program.

*** Please ensure that you include the age of the replaced equipment for measures classified as "Early Replacement" in your application as well as the estimated date that you would have otherwise replaced the existing equipment if you had not chosen a more energy efficient option.

**** Behavioral energy efficiency and demand reduction projects must be both measurable and verifiable. Provide justification with your application.



MERCANTILE SELF DIRECT Ohio Premium Motor/Pump/VFD Incentive Application

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

Email the complete, signed application with all required documents to SelfDirect@duke-energy.com or fax to 513-419-5572.

Is this application: NEW (original) or REVISED (changes made to original application)

Building Type – Required (check one)		
<input type="checkbox"/> Data Centers	<input type="checkbox"/> Full Service Restaurant	<input type="checkbox"/> Office
<input type="checkbox"/> Education/K-12	<input type="checkbox"/> Healthcare	<input checked="" type="checkbox"/> Public Assembly
<input type="checkbox"/> Education Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Public Order/Safety
<input type="checkbox"/> Elder Care/Nursing Home	<input type="checkbox"/> Lodging	<input type="checkbox"/> Religious Worship/Church
<input type="checkbox"/> Food Sales/Grocery	<input type="checkbox"/> Retail (Small Box)	<input type="checkbox"/> Service
<input type="checkbox"/> Fast Food Restaurant	<input type="checkbox"/> Retail (Big Box)	<input type="checkbox"/> Warehouse
<input type="checkbox"/> Other:		
How did you hear about the program? (check one)		
<input type="checkbox"/> Duke Energy Representative	<input type="checkbox"/> Web Site	<input type="checkbox"/> Radio
<input checked="" type="checkbox"/> Contractor / Vendor	<input type="checkbox"/> Other _____	

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

<input checked="" type="checkbox"/> All sections of application	<input checked="" type="checkbox"/> Invoice with make, model number, quantity and equipment manufacturer	<input checked="" type="checkbox"/> Tax ID number for payee	<input checked="" type="checkbox"/> Customer/vendor agree to Terms and Conditions
---	--	---	---

Customer Information					
Customer/Business	West Chester Township	Contact	Tim Franck		
Phone	513-579-7300	Account Number	2430-3699-01-1		
Street Address (Where incentive should be mailed)		9113 Cincinnati Dayton Road			
City	West Chester	State	Ohio	Zip Code	45069
Installation Street Address	9363 Centre Pointe Drive				
City	West Chester	State	Ohio	Zip Code	45069
E-mail Address	tfranck@westchesteroh.org				

*Failure to provide the account number associated with the location where the installation took place will result in rejection of the application.

Vendor Information					
Vendor	Innovative Energy Solutions	Contact	John Brofft		
Phone	513-874-6733	Fax	513-874-8911		
Street Address		3680 Symmes Road			
City	Hamilton	State	Ohio	Zip Code	45015
E-mail Address	john.brofft@ies-cin.com				

If Duke Energy has questions about this application, who should we contact? Customer Vendor

Payment Information		
Who should receive incentive payment?	<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 (written signature)	
	Date	N/A
Provide Tax ID Number for Payee	Customer Tax ID #	31-6010106
	Vendor Tax ID #	N/A

Terms and Conditions			
I have read and hereby agree to the Terms & Conditions and Program Requirements.			
Customer Signature		Vendor Signature	
Date	1/9/12	Date	N/A
Title		Title	N/A

Incentives are subject to change and may be discontinued at the sole discretion of Duke Energy. Equipment must be installed and operable to be eligible for incentives. As Federal Energy Policy Law changes, equipment efficiency requirements are subject to change.



Motor incentives will be removed from the Prescriptive Program effective March 31, 2011. To qualify for the current incentives, motors must be purchased by March 31, 2011 and installed by June 30, 2011. Applications must be received by September 30, 2011.

Certain motors will still be eligible for incentives using the custom program. Please refer to the Duke Energy Mercantile Self Direct website for further detail.

The Equipment below is (check one): New Equipment / New Construction
 Early replacement of existing equipment or replacement of failed equipment must apply for Self Direct Custom program.

Motor											
Motor	Make/Model or Catalog #	Quantity	Type	RPM	Incentive	HP	Installed Nominal Efficiency*	Annual Operating Hrs (Minimum of 2000)	Equipment Cost	Date Installed and Operable (mm/yy)	Total Incentive
1-5 HP			<input type="checkbox"/> OPEN <input type="checkbox"/> TEFC	<input type="checkbox"/> 1200 <input type="checkbox"/> 1800 <input type="checkbox"/> 3600	\$5/HP	HP	%	Hrs			
7.5-20 HP	WEG / 01018ET3E215TC	4	<input type="checkbox"/> OPEN <input checked="" type="checkbox"/> TEFC	<input type="checkbox"/> 1200 <input checked="" type="checkbox"/> 1800 <input type="checkbox"/> 3600	\$4/HP	10HP	91.7%	4380Hrs	\$884.00	7/09	\$160.00
25-100 HP			<input type="checkbox"/> OPEN <input type="checkbox"/> TEFC	<input type="checkbox"/> 1200 <input type="checkbox"/> 1800 <input type="checkbox"/> 3600	\$2.50/HP	HP	%	Hrs			
125 -- 250 HP			<input type="checkbox"/> OPEN <input type="checkbox"/> TEFC	<input type="checkbox"/> 1200 <input type="checkbox"/> 1800 <input type="checkbox"/> 3600	\$2/HP	HP	%	Hrs			

* See page four for required efficiency levels for motors.

*Incentive capped at 50% of project cost (equipment and external labor).

- Qualifying motors must be three-phase open drip (ODP) or totally enclosed fan cooled (TEFC) units with nominal speeds of 1200, 1800, or 3600 RPM.
- Efficiencies are to be full-load nominal efficiencies tested in accordance with IEE Standards 112, Method B. Please refer to attached table to determine qualifying efficiencies.
- Installed equipment must be new. Used, rebuilt or rewound equipment is *not* eligible.
- Motor shall be squirrel cage design and conform to NEMA Premium design A, B or C torque characteristics.
- Motor/pump load must be served by Duke Energy and installed in customer's facility.
- Replaced motors shall be disposed of or recycled (not to be resold or rewound).
- Motor(s) and pump(s) must operate a minimum of 2000 hours annually to be eligible.



The Equipment below is (check one): New Equipment / New Construction
 Early replacement of existing equipment or replacement of failed equipment must apply for Self Direct Custom program.

High Efficiency Pumps								
Pump	Make/Model or Catalog #	Quantity	Incentive	Installed Nominal Efficiency* (pump curve)	Annual Operating Hrs (Minimum of 2000)	Equipment Cost	Date Installed and Operable (mm/yy)	Total Incentive
1.5 HP			\$61.00/PUMP	%	Hrs			
2 HP			\$87.50.00/PUMP	%	Hrs			
3 HP			\$87.50/PUMP	%	Hrs			
5 HP			\$85.00./PUMP	%	Hrs			
7.5 HP			\$124.50/PUMP	%	Hrs			
10 HP	Bell & Gossett / 1510 2.5"	4	\$82.50.00/PUMP	77%	4380Hrs	\$2,863.00	7/09	\$330.00
15 HP			\$145.00/PUMP	%	Hrs			
20 HP			\$200.00/PUMP	%	Hrs			

* See on page four for required efficiency levels for pumps. Pump curves are required.

*Incentive capped at 50% of project cost (equipment and external labor).

- Installed equipment must be new. Used, rebuilt or rewound equipment is *not* eligible.
- Motor/pump load must be served by Duke Energy and installed in customer's facility.
- Pump efficiency is based on the design point on the pump curve. Documentation of the pump curve is required to receive an incentive.
- The pump efficiency at the design point on the pump curve must meet nominal efficiencies as stated in table on page 4.
- Duplicative to the first bullet point.



The Equipment below is (check one): Retrofit
 Replacement of failed equipment or new construction is not eligible for incentives.

Variable Frequency Drives (VFDs) -- For Process Fluid Pumping Only (Retrofit* Application only)							
Process pumping does not include HVAC or swimming pool fluid pumping systems.							
List Process Pumping Application							
VFD**	Make/Model or Catalog #	Quantity	Incentive***	Annual Operating Hrs (Minimum of 2000)	Project Cost	Date Installed and Operable (mm/yy)	Total Incentive
5 HP			\$20.00/HP	Hrs			
7.5 HP			\$20.00/HP	Hrs			
10 HP			\$20.00/HP	Hrs			
15 HP			\$20.00/HP	Hrs			
20 HP			\$20.00/HP	Hrs			
25 HP			\$20.00/HP	Hrs			
30 HP			\$20.00/HP	Hrs			
40 HP			\$20.00/HP	Hrs			
50 HP			\$20.00/HP	Hrs			

*Retrofit only -- incentives are only available for new VFDs installed on existing fluid process pump systems.
 ** VFDs over 50 HP and VFDs on new equipment are not eligible for prescriptive incentives, but may qualify through the custom program. Please refer to the custom webpage for guidance.
 ***Incentives are capped at 50% of project cost (equipment and external labor).

- Installed equipment must be new. Used, rebuilt or rewound equipment is *not* eligible.
- Variable Frequency Drive Fans & Pumps qualifying equipment must have 2000 annual run hours or more.
- A 3% impedance reactor on the AC input to the VSD is recommended to prevent damage to the VSD due to overvoltage from power factor correction and should be properly sized by your supplier. A 5% reactor may be recommended if there is additional harmonic distortion on the AC input lines due to other plant-specific causes.
- VFDs on new equipment do not qualify under this program; but may qualify through the custom program. Please refer to the Custom website for guidance. Incentives will be paid for the installation of *NEW* VFDs on existing fan/pump systems and process equipment only.
- Replacement of existing VFDs does not qualify for incentives.
- VFDs installed on redundant pumps do not qualify.
- VFDs installed in newly constructed facilities do not qualify for incentives.
- VFD speed must be automatically controlled by differential pressure, flow, temperature, or other variable signal.
- Existing throttling devices including inlet vanes, bypass dampers, and throttling valves must be removed or permanently disabled.
- Duplicative to the first bullet point.

The Equipment below is (check one): Retrofit
 Replacement of failed equipment or new construction is not eligible for incentives.

Variable Frequency Drives (VFDs) – Applied to HVAC Fans Only (Retrofit* Application only)							
VFD HVAC Applications (please check one):							
<input type="checkbox"/> Supply Fan		<input type="checkbox"/> Cooling Tower Fan		<input type="checkbox"/> Return Fan			
<input type="checkbox"/> Exhaust Fan							
VFD**	Make/Model or Catalog #	Quantity	Incentive***	Annual Operating Hrs (Minimum of 2000)	Project Cost	Date Installed and Operable (mm/yy)	Total Incentive
1.5 HP			\$50.00/HP	Hrs			
2 HP			\$50.00/HP	Hrs			
3 HP			\$50.00/HP	Hrs			
5 HP			\$50.00/HP	Hrs			
7.5 HP			\$50.00/HP	Hrs			
10 HP			\$50.00/HP	Hrs			
15 HP			\$50.00/HP	Hrs			
20 HP			\$50.00/HP	Hrs			
25 HP			\$50.00/HP	Hrs			
30 HP			\$50.00/HP	Hrs			
40 HP			\$50.00/HP	Hrs			
50 HP			\$50.00/HP	Hrs			
* Retrofit only – incentives are only available for new VFDs installed on existing HVAC fan systems.							
**VFDs over 50 HP and VFD's on new equipment are not eligible for prescriptive incentives, but may qualify through the custom program.							
***Incentives are capped at 50% of project cost (equipment and external labor).							

- Installed equipment must be new. Used, rebuilt or rewound equipment is *not* eligible.
- Variable Frequency Drive Fans & Pumps qualifying equipment must have 2000 annual run hours or more.
- A 3% impedance reactor on the AC Input to the VSD is recommended to prevent damage to the VSD due to overvoltage from power factor correction and should be properly sized by your supplier. A 5% reactor may be recommended if there is additional harmonic distortion on the AC input lines due to other plant-specific causes.
- VFDs on new equipment do not qualify under this program; but may qualify through the custom program. Please refer to the Custom website for guidance. Incentives will be paid for the installation of **NEW** VFDs on existing fan/pump systems and process equipment only.
- Replacement of existing VFDs does not qualify for incentives.
- VFDs installed on redundant pumps do not qualify.
- VFDs installed in newly constructed facilities do not qualify for incentives.
- VFD speed must be automatically controlled by differential pressure, flow, temperature, or other variable signal.
- Existing throttling devices including inlet vanes, bypass dampers, and throttling valves must be removed or permanently disabled.
- Duplicative to the first bullet point.



The Equipment below is (check one): Retrofit
 Replacement of failed equipment or new construction is not eligible for incentives.

Variable Frequency Drives (VFDs) – Applied to HVAC Pumps Only (Retrofit* Application only)							
VFD HVAC Applications (please check one):							
<input type="checkbox"/> Chilled Water Pump		<input type="checkbox"/> Condenser Pump			<input type="checkbox"/> Hot Water Pump		
VFD**	Make/Model or Catalog #	Quantity	Incentive***	Annual Operating Hrs (Minimum of 2000)	Project Cost	Date Installed and Operable (mm/yy)	Total Incentive
1.5 HP			\$50.00/HP	Hrs			
2 HP			\$50.00/HP	Hrs			
3 HP			\$50.00/HP	Hrs			
5 HP			\$50.00/HP	Hrs			
7.5 HP			\$50.00/HP	Hrs			
10 HP			\$50.00/HP	Hrs			
15 HP			\$50.00/HP	Hrs			
20 HP			\$50.00/HP	Hrs			
25 HP			\$50.00/HP	Hrs			
30 HP			\$50.00/HP	Hrs			
40 HP			\$50.00/HP	Hrs			
50 HP			\$50.00/HP	Hrs			
* Retrofit only – incentives are only available for new VFDs installed on existing HVAC pumps systems.							
**VFDs over 50 HP and VFDs on new equipment are not eligible for prescriptive incentives, but may qualify through the custom program. Please refer to the custom webpage for guidance.							
***Incentives are capped at 50% of project cost (equipment and external labor).							

- Installed equipment must be new. Used, rebuilt or rewound equipment is *not* eligible.
- Variable Frequency Drive Fans & Pumps qualifying equipment must have 2000 annual run hours or more.
- A 3% impedance reactor on the AC input to the VSD is recommended to prevent damage to the VSD due to overvoltage from power factor correction and should be properly sized by your supplier. A 5% reactor may be recommended if there is additional harmonic distortion on the AC input lines due to other plant-specific causes.
- VFDs on new equipment do not qualify under this program; but may qualify through the custom program. Please refer to the Custom website for guidance. Incentives will be paid for the installation of **NEW** VFDs on existing fan/pump systems and process equipment only.
- Replacement of existing VFDs does not qualify for incentives.
- VFDs installed on redundant pumps do not qualify.
- VFDs installed in newly constructed facilities do not qualify for incentives.
- VFD speed must be automatically controlled by differential pressure, flow, temperature, or other variable signal.
- Existing throttling devices including inlet vanes, bypass dampers, and throttling valves must be removed or permanently disabled.
- . Duplicative to the first bullet point.

Efficiencies for Premium Motor/Pump Measures

Nominal Efficiencies for "NEMA Premium" Induction Motors Rated 600 volts or less (random wound)						
HP	Open Drip Proof			Totally Enclosed Fan-Cooled		
	1200 RPM	1800 RPM	3600 RPM	1200 RPM	1800 RPM	3600 RPM
1	82.5	85.5	77.0	82.5	85.5	77.0
1.5	86.5	86.5	84.0	87.5	86.5	84.0
2	87.5	86.5	85.5	88.5	86.5	85.5
3	88.5	89.5	85.5	89.5	89.5	86.5
5	89.5	89.5	86.5	89.5	89.5	88.5
7.5	90.2	91.0	88.5	91.0	91.7	89.5
10	91.7	91.7	89.5	91.0	91.7	90.2
15	91.7	93.0	90.2	91.7	92.4	91.0
20	92.4	93.0	91.0	91.7	93.0	91.0
25	93.0	93.6	91.7	93.0	93.6	91.7
30	93.6	94.1	91.7	93.0	93.6	91.7
40	94.1	94.1	92.4	94.1	94.1	92.4
50	94.1	94.5	93.0	94.1	94.5	93.0
60	94.5	95.0	93.6	94.5	95.0	93.6
75	94.5	95.0	93.6	94.5	95.4	93.6
100	95.0	95.4	93.6	95.0	95.4	94.1
125	95.0	95.4	94.1	95.0	95.4	95.0
150	95.4	95.8	94.1	95.8	95.8	95.0
200	95.4	95.8	95.0	95.8	96.2	95.4
250	95.4	95.8	95.0	95.8	96.2	95.8

Nominal Efficiencies for Pumps	
HP	Efficiency
1.5	efficiency of 65% or more for system
2	efficiency of 65% or more for system
3	efficiency of 67% or more for system
5	efficiency of 70% or more for system
7.5	efficiency of 73% or more for system
10	efficiency of 75% or more for system
15	efficiency of 77% or more for system
20	efficiency of 77% or more for system

Program Requirements

Incentive Eligibility

- Incentives are only available to customers on a Duke Energy Ohio non-residential rate.
- Duke Energy Customers who purchase electric generation from an alternative supplier are eligible to participate.
- Incentive will not be paid until eligible equipment has been installed, is available to operate, and verification has been completed by Duke Energy staff as noted in the Term & Conditions stated below.
- Duke Energy reserves the right to revise incentive levels and/or qualifying efficiency levels at any time.
- Customer may assign the incentive to the vendor who installed/supplied the equipment. The customer's signature is required in the Payment Information section on page 1 of this form to assign the incentive to the vendor. Customer agrees that such an action constitutes an irrevocable assignment of the incentive. This assigned incentive must reduce the purchase price paid for the equipment by an equivalent amount.
- Leased equipment is eligible for incentives providing the equipment meets the program requirements and the customer provides the required documentation noted on the Incentive Application Process page of this application.
- Any equipment which, either separately or as part of a project, has or will receive an incentive from any other Duke Energy program is ineligible.
- In no case will Duke Energy pay an incentive above the actual cost of the new equipment.
- Incentive recipient assumes all responsibilities for any tax consequences resulting from Duke Energy incentive payment.
- To qualify for Duke Energy incentives, applicants who provide their social security number as their federal tax identification number for tax purposes must sign and return the "Customer consent to release personal information" form ("Consent Form") along with the application. Incentive applications are processed by a 3rd party vendor. The 3rd party vendor is responsible for mailing the 1099 form at the end of the calendar year for tax filing. Duke Energy and the 3rd party vendor have signed a confidentiality agreement to protect your personal information. If your social security number is your federal tax ID number and you elect not to sign the Consent Form, please do not send Duke Energy the application, as you will not be qualified to participate in the incentive program.

Terms and Conditions

I certify that this premise is served by Duke Energy (or an affiliate of Duke Energy), that the information provided herein is accurate and complete, and that I have purchased and installed the high efficiency equipment (indicated herein) for the business facility listed herein and not for resale. Attached is an itemized invoice for the indicated installed equipment. I understand that the proposed incentive payment from Duke Energy is subject to change based on verification and Duke Energy approval. I agree to Duke Energy verification of both the sales transaction and equipment installation which may include a site inspection from a Duke Energy representative or Duke Energy agent. I understand that I am not allowed to receive more than one incentive from Duke Energy on any piece of equipment. I also understand that my participation in the program may be taxable and that my company is solely responsible for paying all such taxes. I hereby agree to indemnify, hold harmless and release Duke Energy and it's affiliates from any actions or claims in regards to the installation, operation and disposal of equipment (and related materials) covered herein including liability from an incidental or consequential damages. Duke Energy does not endorse any particular manufacturer, product or system design within these programs; does not expressly or implicitly warrant the performance of installed equipment (Contact your contractor for details regarding equipment warranties and 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.

Incentive Application Instructions

IMPORTANT NOTICE

Delays in processing incentive payments will occur if required documentation is not included with completed application(s).

1. Contact Duke Energy toll free at 866-380-9580 to confirm customer eligibility. Applications are available for download at www.duke-energy.com.
2. Review program and equipment requirements on the incentive application. (Page7)
3. Purchase and install eligible energy-efficient equipment.
4. Complete and submit application for equipment that was installed after 1/1/2008.
5. **The following items must be included to verify projects. If they are not included, it will delay payment of incentive.**
 - A. Itemized invoice for all equipment installed to include:
 - a. Equipment cost
 - b. Quantity per equipment type installed
 - c. Model # for each equipment type
 - d. Manufacturer's data sheet for each equipment model #.
 - B. **Make sure the account number provided on the cover page (customer information section) is associated with the location where the equipment was installed. If the account # does not match the address where the equipment was installed, the application will be rejected as ineligible.**
 - C. Provide required tax ID# for payee.
 - D. Customer must sign and date the application after reviewing the Terms and Conditions. If customer wishes to **assign payment of the incentive directly to the vendor**, the customer should circle the appropriate payee in the Payment Information section of the application and sign their name to authorize payment.
6. Duke Energy may require site verification of projects that have been self-installed, prior to payment of incentive.
8. Email the complete, signed application with all required documents to SelfDirect@duke-energy.com or fax to 513-419-5572.
8. A percentage of equipment installations will be site verified for quality assurance purposes. Once selected, a Duke Energy representative will contact the customer to arrange for the inspection. All incentive payments related to the project will be withheld until site verification is complete. There is no charge to the customer for these inspections.

Mercantile Self Direct Incentive Program Requirements for Vendor Participation

Program Overview

- Duke Energy offers its eligible non-residential customers the opportunity to increase profitability through energy cost savings and contribute to a cleaner environment by participating in our Mercantile Self Direct Incentive Program.
- Under the Duke Energy Mercantile Self Direct Incentive Program, Vendor is defined as any third party who:
 - Promotes the sale and installation of the high efficiency equipment for the customer. The Vendor will ensure that the eligible equipment is installed and operating before submitting the application or assisting the customer in completing the application.
 - Is responsible for the product sale only and is not required to ensure installation of the eligible equipment.
- All license requirements, if any, are solely the Vendor's responsibility. Participating Vendors include equipment contractors, equipment Vendors, equipment manufacturers and distributors, energy service companies, etc. The typical Vendor role is to contact/solicit eligible customers building new or retrofitting existing facilities and encourage the installation of the energy-efficient equipment offered in Duke Energy's program.
- Incentives are paid directly to customers unless the customer assigns the incentive to the Vendor. The assigned incentive must reduce the purchase price paid for the equipment by an equivalent amount. Incentives are taxable to the entity who receives the rebate check. Rebates greater than \$600 will be reported to the IRS unless documentation of tax exempt status is provided.
- Vendors may not represent to customers that Duke Energy endorses their specific products or services. Duke Energy does not endorse specific products, services, or companies – only energy-efficient technologies.
- Vendors may advise customers of their option to have Duke Energy make their rebate check(s) payable to the Vendor if the customer's rebate amount is being deducted from the total sale price in advance. The customer must complete and sign the Payment Release Authorization section of the Mercantile Self Direct Incentive Program Application.
- Vendors may use the words "Duke Energy's Mercantile Self Direct Incentive Program" in promotional materials or advertisements. Vendors may use the name Duke Energy in a text format to describe the Mercantile Self Direct Incentive Program, but are not permitted to use Duke Energy's logos.
- For Vendors who properly install the qualifying equipment, the equipment shall be installed and operating prior to an application being submitted. A percentage of each Vendor's installations will be subject to inspection by Duke Energy for verifying that the equipment is installed and operating. Vendors demonstrating high failure rates (based on a statistically significant sample) will have 100% of subsequent jobs inspected or may have their participation in the Mercantile Self Direct Incentive Program revoked by Duke Energy in its sole discretion.
- Vendors shall provide customers with applicable equipment warranty information for all measures installed. Vendors shall provide the required documentation for customers to apply for the rebate (invoices with model numbers and quantities, specification sheets for installed equipment, etc.) and assist customers in filling out the application.
- Vendors shall comply with all applicable local, state, and federal laws and codes when performing installation and related functions.
- Duke Energy reserves the right to revoke a Vendor's participation in Mercantile Self Direct Incentive Program if, in Duke Energy's sole judgment, the Vendor fails to comply with the program's guidelines and requirements.
- Mercantile Self Direct Incentive Program offerings may be modified or terminated without prior notice. Check Duke Energy's Web site for current program status.

Vendors can sign up to be on Duke Energy's Web site as a participating Vendor and be added to Duke Energy's e-mail distribution by emailing the Vendor Participation Agreement (VPA) to SelfDirect@duke-energy.com or faxing to 513-419-5572.

Guidelines for Vendor Activities

- Vendors shall sign and return the attached VPA to Duke Energy prior to soliciting customer participation or when submitting an application. Rebate payments will not be released to a Vendor unless a signed VPA is on file.
- Vendors shall not misrepresent the nature of their role in the program. In particular, Vendors shall not state or imply to customers, or any persons, that the Vendor is employed by or working on Duke Energy's behalf.

For more information, call 1-866.380.9580 or visit www.duke-energy.com.



Mercantile Self Direct Rebate Program

Technology	Responsible for sales and not installs*	Responsible for sales and Installation*	Technology	Responsible for sales and not installs*	Responsible for sales and Installation*
Lighting	<input type="checkbox"/>	<input type="checkbox"/>	Thermal Storage	<input type="checkbox"/>	<input type="checkbox"/>
Heating Ventilation & Cooling	<input type="checkbox"/>	<input type="checkbox"/>	Pumps/Motors/VFDs	<input type="checkbox"/>	<input type="checkbox"/>
Food Service	<input type="checkbox"/>	<input type="checkbox"/>	Chillers	<input type="checkbox"/>	<input type="checkbox"/>
Water Heating	<input type="checkbox"/>	<input type="checkbox"/>	Refrigeration	<input type="checkbox"/>	<input type="checkbox"/>
Process Equipment (air compressors, injection molding, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	Window Film	<input type="checkbox"/>	<input type="checkbox"/>

* Check all that apply

Vendors who wish to be listed as a Mercantile Self Direct Incentive Program participating Vendor shall complete this form. A signed copy of this form must be on file at Duke Energy in order for the Vendor to receive incentive payments. Fax form to 513-419-5572 or email to SelfDirect@duke-energy.com.

I have read and understand the Mercantile Self Direct Incentive Program Requirements for Vendor Participation, and I agree to comply with all requirements set forth therein. By signing this agreement, I agree to provide my customers with information and documentation that is true and accurate to the best of my knowledge. I hereby represent and warrant that the Tax ID and Vendor Tax Status provided below are true and accurate. I agree that any confidential information concerning my customer, including but not limited to Duke Energy service account information, will be used for the sole purpose of facilitating the customer's participation in the Mercantile Self Direct Incentive Program. Further, I understand that I am responsible for making sure everyone working for me understands the requirements prior to soliciting customer participation.

Vendor Federal Tax ID Number	
------------------------------	--

To qualify for Duke Energy incentives, applicants who provide their social security number as their federal tax identification number for tax purposes must sign and return the "Customer consent to release personal information" form ("Consent Form") along with the application. Incentive applications are processed by a third-party vendor. The third-party vendor is responsible for mailing the 1099 form at the end of the calendar year for tax filing. Duke Energy and the third-party vendor have signed confidentiality agreement to protect your personal information. If your social security number is your federal tax ID number and you elect not to sign the Consent Form, please do not send Duke Energy the application. As you will not be qualified to participate in the incentive program.

Vendor Tax Status	<input type="checkbox"/> Corporation	<input type="checkbox"/> Individual/Sole Proprietor	<input type="checkbox"/> Partnership	<input type="checkbox"/> Other
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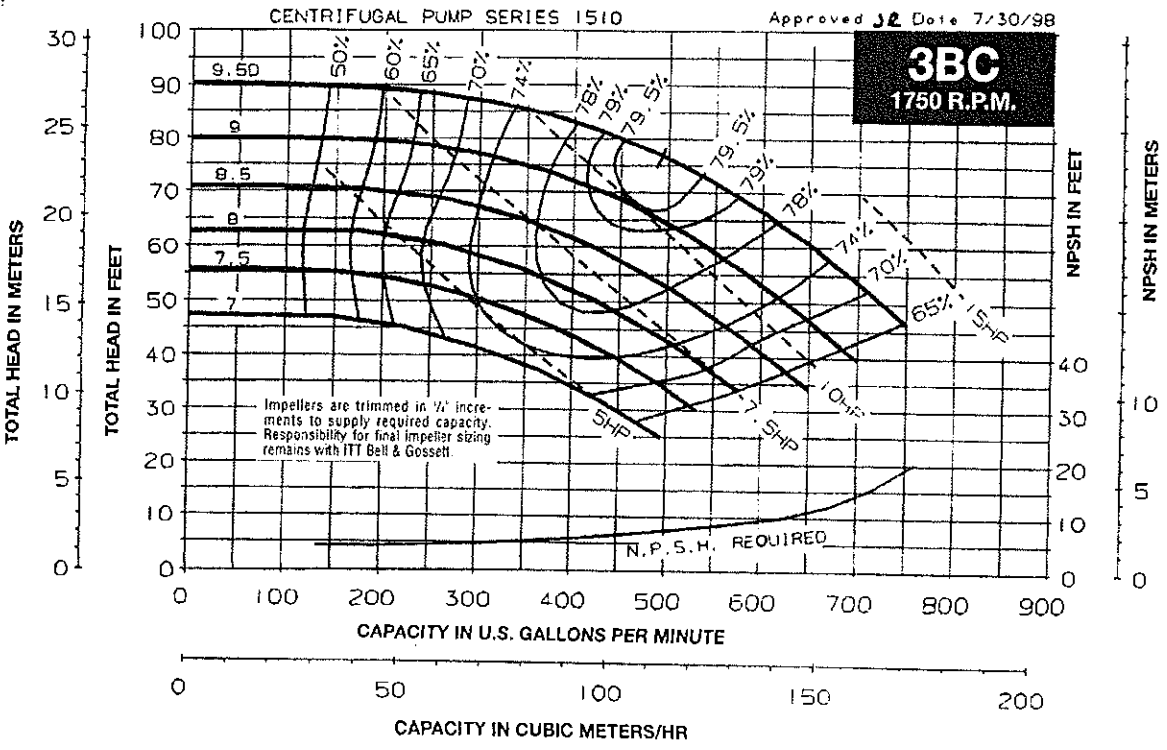
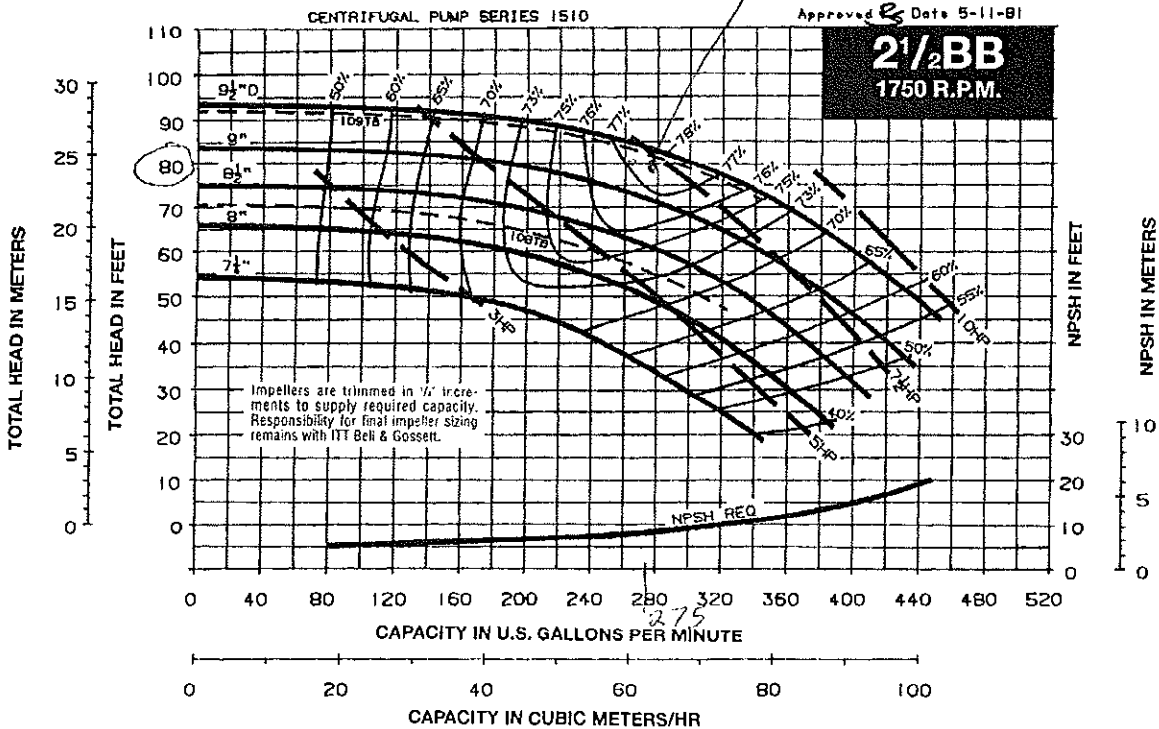
Contact me via	<input type="checkbox"/> Phone	<input type="checkbox"/> E-Mail	<input type="checkbox"/> Mail
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Company Name	
Mailing Address	
City, State, Zip	
Phone/Fax	
Primary E-mail Address	
Secondary E-mail Address	
Vendor Signature	
Title	
Print Name	
Date	

For more information, call 1-866-380-9580 or visit www.duke-energy.com.

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View repair parts guides, schematic drawings and product specs in the [Bell & Gossett Maintenance & Repair Guide](#) from State Supply. Click the cover image to get your free copy!

FILTER PRODUCTS

Horse Power

- 10 hp (2)
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- 2 hp (1)
- 20 hp (3)
- 25 hp (3)
- 3 hp (2)
- 30 hp (1)
- 40 hp (3)
- 5 hp (3)
- 50 hp (2)
- 60 hp (2)
- 7-1/2 hp (3)
- 75 hp (4)

Material

Cast Iron (38)

Phase

Three (38)

Manufacturer

Bell & Gossett (38)

RECENTLY VIEWED

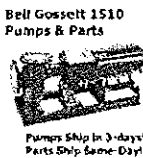
Series 1510 Pumps & Parts

Bell & Gossett 1510 pumps are ready to ship 3-days after your order is received. The Bell Gossett 1510 pump is assembled at one of two U.S. distribution centers. State Supply pricing on the Bell Gossett 1510 series of pumps is tough to beat - And with only 3-days needed between receipt of order and shipment, the Bell Gossett 1510 pump lead time is almost unbelievable. On top of everything else, a full line of Bell Gossett 1510 pump repair parts are inventoried and ready for same-day shipping.

[Documentation](#) [Overview](#) [Diagram](#)

Bell & Gossett 1510 Pump Documentation

- [Order Guide](#)
- [Performance Curves](#)
- [Installation & Service](#)



Bell Gossett 1510 Pumps & Parts
Pumps Ship in 3-days! Parts Ship Same-Day!

Bell Gossett 1510 Pump - Model 2E with 100 HP, 3550 RPM Motor

\$11,692.76

SKU: BH1846

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Bell & Gossett 1510 2E large bearing frame, base-mounted centrifugal pump. 3" 125 lb. flanged end suction x 2" 125 lb. flanged top discharge with 100 HP 3550 RPM. 230/460/60/3 TEFC motor. 11" full runner bronze impeller with 475 GPM at 475 TFH.

[Learn More](#)

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Bell Gossett 1510 Pumps & Parts
Pumps Ship in 3-days! Parts Ship Same-Day!

Bell Gossett 1510 Pump - Model 2G with 20 HP, 1800 RPM Motor

\$4,074.13

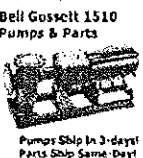
SKU: BH1851

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Bell & Gossett 1510 2G large bearing frame, base-mounted centrifugal pump. 3" 125 lb. flanged end suction x 2" 125 lb. flanged top discharge with 20 HP 1800 RPM. 208-230/460/60/3 TEFC motor. 13-1/2" full runner bronze impeller with 280 GPM at 180 TFH.

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Bell Gossett 1510 Pumps & Parts
Pumps Ship in 3-days! Parts Ship Same-Day!

Bell Gossett 1510 Pump - Model 2-1/2AB with 5 HP, 1800 RPM Motor

\$2,090.22

SKU: BH1825

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Bell & Gossett 1510 2-1/2AB small bearing frame, base-mounted centrifugal pump. 3" 125 lb. flanged end suction x 2-1/2" 125 lb. flanged top discharge with 5 HP 1800 RPM. 208-230/460/60/3 TEFC motor. 7" full runner bronze impeller with 200 GPM at 42 TFH.

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Bell Gossett 1510 Pumps & Parts
Pumps Ship in 3-days! Parts Ship Same-Day!

Bell Gossett 1510 Pump - Model 2-1/2BB with 10 HP, 1800 RPM Motor

\$2,863.78

SKU: BH1830

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Bell & Gossett 1510 2-1/2BB small bearing frame, base-mounted centrifugal pump. 3" 125 lb. flanged end suction x 2-1/2" 125 lb. flanged top discharge with 10 HP 1800 RPM. 208-230/460/60/3 TEFC motor. 9-

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PRODUCTS RESOURCES SERVICES WORLDWIDE REPAIR PARTS

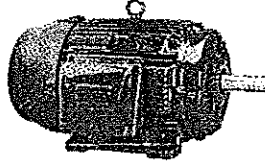
Enter keyword or part number

WEG PE Mtr, 3-Ph, 10 HP, 1760, 208-230/460, 91.7

Motors > General Purpose Motors > Three Phase Motors

NEMA Premium Efficient Motor, 3-Phase, 10 HP, Nameplate RPM 1760, Voltage 208-230/460, NEMA/IEC Frame 215T, Totally Enclosed Fan-Cooled, 60/50 Hz, Full Load Amps 27.3-24.8/12.4, RPM @ 50 Hz 1445, Inverter Duty, Service Factor 1.25, Nominal Efficiency 91.7, Base Mounting, Ball Bearings, Thermal Protection None, CW/CCW Rotation, Insulation Class F, Ambient 40 C, Overall Length 19-1/2 In, Shaft Dia 1-3/8 In, Shaft Length 3-3/8 In, Frame Material Cast Iron, Blue Epoxy Finish

Grainger Item # **6AJC8**
 Price (ea.) **\$884.00**
 Brand **WEG**
 Mfr. Model # **01018ET3E215T-W22**
 Ship Qty.
 Sell Qty. (Min-Call)
 Ship Weight (lbs.) **172.0**
 Availability **Ready to Ship**
 Catalog Page No. **19**
 Country of Origin **Brazil**
 (Country of Origin is subject to change.)



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 Add Grainger TripleGuard® repair & replacement coverage for \$129.00 each.


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Price shown may not reflect your price. Sign in or register.


When can I get it? Use your ZIP code to estimate availability.
 Qty. ZIP code:

Tech Specs	Additional Information	Compliance & Restrictions	MSDS	Required Accessories	Optional Accessories	Alternate Products	Repair Parts
Item		General Purpose Motor					
Motor Type		3-Phase					
HP		10					
Nameplate RPM		1760					
Voltage		208-230/460					
NEMA Frame		215T					
Enclosure		Totally Enclosed Fan-Cooled					
Mounting		Base					
Hz		60/50					
Full Load Amps		27.3-24.8/12.4					
RPM @ 50 Hz		1445					
Duty		Inverter					
Service Factor		1.25					
Nominal Efficiency		91.7					
Mounting Position		Horizontal					
Bearings		Ball					
Thermal Protection		None					
Rotation		CW/CCW					
Insulation Class		F					
Ambient (C)		40					
Overall Length (In.)		19-1/2					
Length Less Shaft (In.)		14-5/8					
Shaft Dia. (In.)		1-3/8					
Shaft Length (In.)		3-3/8					
Frame Material		Cast Iron					
Finish		Blue Epoxy					
Base		Right					
Efficiency Group		Premium, IEC, MG1 Table 12-12					
NEMA Design		B					
NEMA Standard		Inverter NEMA MG 1 Part 31: 100-1 Variable and 20-1 Constant Torque					
Rated		50 Hz Operation on 190/280V at Rated HP and 5/5 of 60 Hz RPM					
Part Wind Start Capable		No					
Phase		3					
Usable on 200V @ 1.0 SF		No					
Standards		UL Recognized (E14350), CSA Certified (LR33324), CE					
Uses		Premium Efficiency Performance on Pumps, Fans, Blowers and Other Industrial Equipment					
Warranty (Years)		3					
Footnotes		2					
Mfr. Stock No.		01018ET3E215T-W22					
RPM Range		1400-1600					
NEMA/IEC Frame		215T					


Customers Also Viewed




Motor, 3-Ph, 10hp, 1755, 208-230/460, Eff 91.7
 Brand: DAYTON
 Grainger Item #: 40Y28
 Price: \$609.00
 Qty.



PE Mtr, 3-Ph, 10, 1765, 208-230/460, Eff 91.7
 Brand: DAYTON
 Grainger Item #: 2M3V4
 Price: \$932.50
 Qty.



Motor, 3-Ph, 10, 1765, 208-230/460, Eff 91.7
 Brand: WEG
 Grainger Item #: 1XTW7
 Price: \$602.00
 Qty.



Motor, 3-Ph, 10hp, 1755, 208-230/460, Eff 91.7
 Brand: DAYTON
 Grainger Item #: 40ZC1
 Price: \$784.50
 Qty.



SERVICES DEPARTMENT
WEST CHESTER TOWNSHIP, OHIO

DATE: June 5, 2012

RE: West Chester Township Library
Confirmation Cost Information for Lighting/Pumps/Motors/Chillers
Application ID 114938

To Whom It May Concern:

This letter is to confirm that for the renovation to the HVAC mechanical systems of the West Chester Township Library for the MSD Custom rebate applications, the motor was installed with a minimum unit cost listed below.

Description/Model#	Quantity	Price/Fixture	Amount
WEG / 01018ET3E215TC	4	\$221.00	\$884.00

Sincerely yours,

A handwritten signature in black ink, appearing to read "Tim Franck".

Tim Franck
West Chester Community Services Director



SERVICES DEPARTMENT
WEST CHESTER TOWNSHIP, OHIO

DATE: June 5, 2012

RE: West Chester Township Library
Confirmation Cost Information for Lighting/Pumps/Motors/Chillers
Application ID 114938

To Whom It May Concern:

This letter is to confirm that for the renovation to the HVAC mechanical systems of the West Chester Township Library for the MSD Custom rebate applications, the pump was installed with a minimum unit cost listed below.

Description/Model#	Quantity	Price/Fixture	Amount
Bell & Gossett / 1510 2.5"	4	\$715.75	\$2,863.00

4

Total Equipment Cost: \$2,863.00

Sincerely yours,

A handwritten signature in black ink, appearing to read "Tim Franck".

Tim Franck
West Chester Community Services Director

PREScriptive CHILLER

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 1-513-419-5572.

Mercantile customers, defined as using at least 700,000 kWh annually are eligible for the Mercantile Self Direct program. Please indicate mercantile qualification:

- a single Duke Energy Ohio account
- multiple accounts in Ohio (energy usage with other utilities may be counted toward the total)

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

Account Number	Annual Usage	Account Number	Annual Usage
2430-3699-01-1	723400		

Self Direct rebates are available for completed Custom projects that have not previously received a Duke Energy Smart Saver® Custom Incentive. Self Direct incentives 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 requirements dictate that certain projects that may be Prescriptive in nature under the Smart Saver program must be evaluated using the Custom process. Use the table on page two as a guide to determine which Self Direct program fits your project(s). Apply for Self Direct projects using the appropriate application forms in conjunction with this cover sheet. Where Mercantile Self Direct Prescriptive applications are listed, please refer to the measure list on that application. If your measure is not listed, you may be eligible for a Self Direct Custom rebate. Self Direct Custom applications, like Smart Saver Custom applications, should include detailed analysis of pre-project and post-project energy usage and project costs. Please indicate which type of rebate applications are included in the table provided on page two.

Please check each box to indicate completion 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
--	--	--	---

* 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.

Application Type	Replaced equipment at end of lifetime or because equipment failed**	Replaced fully operational equipment to improve efficiency***	New Construction
Lighting	MSD Custom Part 1 <input type="checkbox"/> Custom Lighting Worksheet <input type="checkbox"/>	MSD Prescriptive Lighting <input type="checkbox"/>	MSD Prescriptive Lighting <input type="checkbox"/>
		MSD Custom Part 1 <input type="checkbox"/> Custom Lighting Worksheet <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> Custom Lighting Worksheet <input type="checkbox"/>
Heating & Cooling	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	MSD Prescriptive Heating & Cooling <input type="checkbox"/>
			MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>
Window Films, Programmable Thermostats, & Guest Room Energy Management Systems	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General and/or EMS Worksheet(s) <input type="checkbox"/>	MSD Prescriptive Heating & Cooling <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General and/or EMS Worksheet(s) <input type="checkbox"/>
Chillers & Thermal Storage	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	MSD Prescriptive Chillers & Thermal Storage <input checked="" type="checkbox"/>
			MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>
Chiller Tune-ups	MSD Prescriptive Chiller Tune-ups <input type="checkbox"/>	MSD Prescriptive Chiller Tune-ups <input type="checkbox"/>	MSD Prescriptive Chiller Tune-ups <input type="checkbox"/>
Motors & Pumps	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	MSD Prescriptive Motors, Pumps & Drives <input type="checkbox"/>
			MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>
VFDs	Not Applicable	MSD Prescriptive Motors, Pumps & Drives <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> MSD Custom VFD Worksheet <input type="checkbox"/>
		MSD Custom Part 1 <input type="checkbox"/> MSD Custom VFD Worksheet <input type="checkbox"/>	
Food Service	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	MSD Prescriptive Food Service <input type="checkbox"/>
			MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>
Air Compressors	MSD Custom Part 1 <input type="checkbox"/> MSD Custom Compressed Air Worksheet <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> MSD Custom Compressed Air Worksheet <input type="checkbox"/>	MSD Prescriptive Process <input type="checkbox"/>
			MSD Custom Part 1 <input type="checkbox"/> MSD Custom Compressed Air Worksheet <input type="checkbox"/>
Process	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	MSD Prescriptive Process <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>
		MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>	
Energy Management Systems	MSD Custom Part 1 <input type="checkbox"/> MSD Custom EMS Worksheet <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> MSD Custom EMS Worksheet <input type="checkbox"/>	MSD Custom Part 1 <input type="checkbox"/> MSD Custom EMS Worksheet <input type="checkbox"/>
Behavioral*** & No/Low Cost	MSD Custom Part 1 <input type="checkbox"/> MSD Custom General Worksheet <input type="checkbox"/>		

** Under the Self Direct program, failed equipment and equipment at the end of its useful life are evaluated differently than early replacement of fully functioning equipment. All equipment replacements due to failure or old age will be evaluated via the Custom program.

*** Please ensure that you include the age of the replaced equipment for measures classified as "Early Replacement" in your application as well as the estimated date that you would have otherwise replaced the existing equipment if you had not chosen a more energy efficient option.

**** Behavioral energy efficiency and demand reduction projects must be both measurable and verifiable. Provide justification with your application.



MERCANTILE SELF DIRECT Ohio Chillers / Thermal Storage Incentive Application

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

Email the complete, signed application with all required documents to SelfDirect@duke-energy.com or fax to 513-419-5572

Is this application: NEW (original) or REVISED (changes made to original application)

Building Type – Required (check one)		
<input type="checkbox"/> Data Centers	<input type="checkbox"/> Full Service Restaurant	<input type="checkbox"/> Office
<input type="checkbox"/> Education/K-12	<input type="checkbox"/> Healthcare	<input checked="" type="checkbox"/> Public Assembly
<input type="checkbox"/> Education Other	<input type="checkbox"/> Industrial	<input type="checkbox"/> Public Order/Safety
<input type="checkbox"/> Elder Care/Nursing Home	<input type="checkbox"/> Lodging	<input type="checkbox"/> Religious Worship/Church
<input type="checkbox"/> Food Sales/Grocery	<input type="checkbox"/> Retail (Small Box)	<input type="checkbox"/> Service
<input type="checkbox"/> Fast Food Restaurant	<input type="checkbox"/> Retail (Big Box)	<input type="checkbox"/> Warehouse
<input type="checkbox"/> Other:		
How did you hear about the program? (check one)		
<input type="checkbox"/> Duke Energy Representative	<input type="checkbox"/> Web Site	<input type="checkbox"/> Radio
<input checked="" type="checkbox"/> Contractor / Vendor	<input type="checkbox"/> Other	

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

<input checked="" type="checkbox"/> All sections of application	<input checked="" type="checkbox"/> Invoice with make, model number, quantity and equipment manufacturer	<input checked="" type="checkbox"/> Tax ID number for payee	<input checked="" type="checkbox"/> Customer/vendor agree to Terms and Conditions
---	--	---	---

Customer Information					
Customer/Business	West Chester Township		Contact	Tim Franck	
Phone	513-759-7300		Account Number	2430-3699-01-1	
Street Address (Where incentive should be mailed)			9113 Cincinnati Dayton Road		
City	West Chester	State	Ohio	Zip Code	45069
Installation Street Address		9363 Centre Pointe Drive			
City	West Chester	State	Ohio	Zip Code	45069
E-mail Address	tfranck@westchesteroh.org				

*Failure to provide the account number associated with the location where the installation took place will result in rejection of the application.

Vendor Information					
Vendor	Innovative Energy Solutions		Contact	John Brofft	
Phone	513-874-6733		Fax	513-874-8911	
Street Address			3680 Symmes Road		
City	Hamilton	State	Ohio	Zip Code	45015
E-mail Address	john.brofft@ies-cin.com				

If Duke Energy has questions about this application, who should we contact? Customer Vendor

Payment Information		
Who should receive incentive payment?	<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 (written signature)	
	Date	N/A
Provide Tax ID Number for Payee	Customer Tax ID #	31-6010106
	Vendor Tax ID #	N/A

Terms and Conditions			
I have read and hereby agree to the Terms & Conditions and Program Requirements.			
Customer Signature		Vendor Signature	
Date	1-30-12	Date	N/A
Title		Title	N/A

Incentives are subject to change and may be discontinued at the sole discretion of Duke Energy. Equipment must be installed and operable to be eligible for incentives. As Federal Energy Policy Law changes, equipment efficiency requirements are subject to change.



The Equipment below is (check one): New Equipment / New Construction
 Early replacement of existing equipment or replacement of failed equipment must apply for Self Direct Custom program.

See Page 4 of form for required efficiency levels and equipment eligibility

Air Cooled Chillers									
Make/Model # Scroll/Screw Type	# of Units	AHRI Tons/Unit	Full-load kW/ton*	Incentive \$/ton	IPLV kW/ton*	Incentive \$/ton	Building Type	Date Installed & Operable (mm/yy)	Total Incentive
McQuay / AGS160DSHNN-ER10	1	155.2	1.22	\$4.00	13.0	\$5.83	Library	7/09	\$1,525.62
* Chiller performance and IPLV must be tested under AHRI conditions - submit documentation of compliance									

The Equipment below is (check one): New Equipment / New Construction
 Early replacement of existing equipment or replacement of failed equipment must apply for Self Direct Custom program.

See Page 4 of form for required efficiency levels and equipment eligibility

Water Cooled Chillers										
Description	Make/Model #	# of Units	AHRI Tons/Unit	Full-load kW/ton*	Incentive \$/ton	IPLV kW/ton*	Incentive \$/ton	Building Type	Date Installed & Operable (mm/yy)	Total Incentive
<input type="checkbox"/> Screw/Scroll Chiller <input type="checkbox"/> Centrifugal Chiller										
<input type="checkbox"/> Screw/Scroll Chiller <input type="checkbox"/> Centrifugal Chiller										
<input type="checkbox"/> Screw/Scroll Chiller <input type="checkbox"/> Centrifugal Chiller										
* Chiller performance and IPLV must be tested under AHRI conditions - submit documentation of compliance										



Thermal Storage Incentives

The Equipment below is (check one): New Equipment / New Construction

Early replacement of existing equipment or replacement of failed equipment must apply for Self Direct Custom program.

Thermal Storage System Specifications*	
Manufacturer of Thermal Storage Equipment	
Type of Thermal Storage	<input type="checkbox"/> Chilled Water <input type="checkbox"/> Ice Bank <input type="checkbox"/> Ice Harvester
Model Number	
Controls Manufacturer	
Control Strategy	<input type="checkbox"/> Demand Limiting <input type="checkbox"/> Maximum Cooling Shift
Number of Thermal Storage Units	
Partial or Full Storage	<input type="checkbox"/> Partial Storage <input type="checkbox"/> Full Storage
Demand Shifted (kW)XX	
Storage Capacity (Ton Hours)	
Storage Capacity (Gallons If Applicable)	
Peak Cooling Load (Tons)	
Cooled Area (sq. ft.)	
Hours of Operations M-F	
Hours of Operations Sat	
Hours of Operations Sun	
Date Installed and Operable (mm/yy)	
Thermal Storage chiller Plant Description (Manufacturer, Tonnage, Ice Making kW/ton)	
Condenser Type	<input type="checkbox"/> Air Cooled <input type="checkbox"/> Water Cooled
Premium cost for Thermal Storage (Dollars)	
Annual Electrical Operating Cost with Storage (Dollars)	
Annual Savings as a result of Thermal Storage (Dollars)	
Simple Payback including Incentive (Years)	
Total Incentive (\$190/kW shifted)	
Conventional System Specifications (For Comparison Purposes)	
Chiller Plant Description (Manufacturer, type, tonnage, AHRF kW/ton)	
Chiller Demand (kW)	
Annual Electrical Operating Cost with Conventional Cooling	

*Thermal Storage Units with a >1MW load shift are not eligible for incentives under the Prescriptive Program but can be considered for custom incentives. The Custom application and process document are located on the Self Direct websites.

** Average demand shifted during the peak demand timeframe of 10:00am to 6:00pm for summer months of May through September.



Equipment Requirements

Chillers Incentive Table & AHRI Rated Efficiency Requirements*

AIR COOLED CHILLERS – All Sizes			
Total Incentive = Base + Additional			
Scroll/Screw Type Chillers			
Full load kW/ton – EER	Base Incentive \$/ton	Part Load IPLV kW/ton – EER	Additional Incentive \$/ton
1.230 - 9.80	\$4.00	1.130 - 10.60	
1.230 - 9.80	\$4.00	1.010 - 11.90	\$5.83
1.230 - 9.80	\$4.00	0.890 - 13.50	\$12.07
1.230 - 9.80	\$4.00	0.810 - 14.80	\$16.75
1.142 - 10.50	\$12.50	1.046 - 11.50	
1.142 - 10.50	\$12.50	0.925 - 13.00	\$6.00
1.142 - 10.50	\$12.50	0.879 - 13.70	\$8.35
1.142 - 10.50	\$12.50	0.674 - 17.80	\$18.60
1.046 - 11.50	\$15.00	0.961 - 12.50	
1.046 - 11.50	\$15.00	0.847 - 14.20	\$5.70
1.046 - 11.50	\$15.00	0.795 - 15.10	\$8.30
1.046 - 11.50	\$15.00	0.618 - 19.40	\$17.15
WATER COOLED CHILLERS – < 150 tons			
Total Incentive = Base + Additional			
Screw/Scroll Type Chiller			
Full load kW/ton – EER	Base Incentive \$/ton	Part Load IPLV kW/ton – EER	Additional Incentive \$/ton
0.790 - 15.20	\$2.50	0.620 - 19.40	
0.790 - 15.20	\$2.50	0.590 - 20.30	\$1.50
0.790 - 15.20	\$2.50	0.550 - 21.80	\$3.50
0.790 - 15.20	\$2.50	0.510 - 23.50	\$5.50
0.790 - 15.20	\$2.50	0.470 - 25.50	\$7.50
0.710 - 16.90	\$7.50	0.630 - 19.00	
0.710 - 16.90	\$7.50	0.560 - 21.40	\$3.50
0.710 - 16.90	\$7.50	0.530 - 22.60	\$5.00
0.710 - 16.90	\$7.50	0.500 - 24.00	\$6.50
0.710 - 16.90	\$7.50	0.460 - 26.10	\$8.50
0.710 - 16.90	\$7.50	0.430 - 27.90	\$10.00
0.630 - 19.00	\$10.00	0.560 - 21.40	
0.630 - 19.00	\$10.00	0.500 - 24.00	\$3.00
0.630 - 19.00	\$10.00	0.470 - 25.50	\$4.50
0.630 - 19.00	\$10.00	0.440 - 27.30	\$6.00
0.630 - 19.00	\$10.00	0.410 - 29.30	\$7.50
0.630 - 19.00	\$10.00	0.380 - 31.60	\$9.00
Centrifugal Type Chiller			
0.700 - 17.10	\$2.50	0.570 - 21.10	
0.700 - 17.10	\$2.50	0.530 - 22.60	\$2.00
0.700 - 17.10	\$2.50	0.500 - 24.00	\$3.50
0.700 - 17.10	\$2.50	0.420 - 28.60	\$7.50
0.630 - 19.00	\$7.50	0.600 - 20.00	
0.630 - 19.00	\$7.50	0.510 - 23.50	\$4.50
0.630 - 19.00	\$7.50	0.480 - 25.00	\$6.00
0.630 - 19.00	\$7.50	0.450 - 26.70	\$7.50
0.630 - 19.00	\$7.50	0.380 - 31.60	\$11.00
0.560 - 21.40	\$10.00	0.530 - 22.60	
0.560 - 21.40	\$10.00	0.460 - 26.10	\$3.50
0.560 - 21.40	\$10.00	0.430 - 27.90	\$5.00
0.560 - 21.40	\$10.00	0.400 - 30.00	\$6.50
0.560 - 21.40	\$10.00	0.340 - 35.30	\$9.50

*AHRI Standard 550/590

2003 Standard for Performance Rating of Water-Chilling Packages using the vapor compression cycle.

WATER COOLED CHILLERS – 150-300 tons
Total Incentive = Base + Additional

Screw/Scroll Type Chiller			
Full load kW/ton – EER	Base Incentive \$/ton	Part Load IPLV kW/ton – EER	Additional Incentive \$/ton
0.720 – 16.70	\$2.50	0.570 – 21.10	
0.720 – 16.70	\$2.50	0.540 – 22.20	\$1.50
0.720 – 16.70	\$2.50	0.500 – 24.00	\$3.50
0.720 – 16.70	\$2.50	0.470 – 25.50	\$5.00
0.720 – 16.70	\$2.50	0.430 – 27.90	\$7.00
0.650 – 18.50	\$7.50	0.570 – 21.10	
0.650 – 18.50	\$7.50	0.510 – 23.50	\$3.00
0.650 – 18.50	\$7.50	0.480 – 25.00	\$4.50
0.650 – 18.50	\$7.50	0.450 – 26.70	\$6.00
0.650 – 18.50	\$7.50	0.420 – 28.60	\$7.50
0.650 – 18.50	\$7.50	0.390 – 30.80	\$9.00
0.570 – 21.10	\$10.00	0.510 – 23.50	
0.570 – 21.10	\$10.00	0.450 – 26.70	\$3.00
0.570 – 21.10	\$10.00	0.430 – 27.90	\$4.00
0.570 – 21.10	\$10.00	0.400 – 30.00	\$5.50
0.570 – 21.10	\$10.00	0.370 – 32.40	\$7.00
0.570 – 21.10	\$10.00	0.340 – 35.30	\$8.50
Centrifugal Type Chiller			
0.630 – 19.00	\$2.50	0.510 – 23.50	
0.630 – 19.00	\$2.50	0.480 – 25.00	\$1.50
0.630 – 19.00	\$2.50	0.450 – 26.70	\$3.00
0.630 – 19.00	\$2.50	0.380 – 31.60	\$6.50
0.570 – 21.10	\$7.50	0.540 – 22.20	
0.570 – 21.10	\$7.50	0.460 – 26.10	\$4.00
0.570 – 21.10	\$7.50	0.430 – 27.90	\$5.50
0.570 – 21.10	\$7.50	0.400 – 30.00	\$7.00
0.570 – 21.10	\$7.50	0.340 – 35.30	\$10.00
0.510 – 23.50	\$10.00	0.480 – 25.00	
0.510 – 23.50	\$10.00	0.410 – 29.30	\$3.50
0.510 – 23.50	\$10.00	0.390 – 30.80	\$4.50
0.510 – 23.50	\$10.00	0.360 – 33.30	\$6.00
0.510 – 23.50	\$10.00	0.300 – 40.00	\$9.00

*AHRI Standard 550/590
 2003 Standard for Performance Rating of Water-Chilling Packages using the vapor compression cycle.



WATER COOLED CHILLERS – >300 tons
Total Incentive = Base + Additional

Screw/Scroll Type Chiller

Full load kW/ton – EER	Base Incentive \$/ton	Part Load IPLV kW/ton – EER	Additional Incentive \$/ton
0.640 – 18.75	\$2.50	0.510 – 23.50	
0.640 – 18.75	\$2.50	0.480 – 25.00	\$1.50
0.640 – 18.75	\$2.50	0.450 – 26.70	\$3.00
0.640 – 18.75	\$2.50	0.420 – 28.60	\$4.50
0.640 – 18.75	\$2.50	0.380 – 31.60	\$6.50
0.580 – 20.70	\$7.50	0.510 – 23.50	
0.580 – 20.70	\$7.50	0.450 – 26.70	\$3.00
0.580 – 20.70	\$7.50	0.430 – 27.90	\$4.00
0.580 – 20.70	\$7.50	0.400 – 30.00	\$5.50
0.580 – 20.70	\$7.50	0.370 – 32.40	\$7.00
0.580 – 20.70	\$7.50	0.350 – 34.30	\$8.00
0.510 – 23.50	\$10.00	0.460 – 26.10	
0.510 – 23.50	\$10.00	0.400 – 30.00	\$3.00
0.510 – 23.50	\$10.00	0.380 – 31.60	\$4.00
0.510 – 23.50	\$10.00	0.360 – 33.30	\$5.00
0.510 – 23.50	\$10.00	0.330 – 36.40	\$6.50
0.510 – 23.50	\$10.00	0.310 – 38.70	\$7.50

Centrifugal Type Chiller

0.580 – 20.70	\$2.50	0.470 – 25.50	
0.580 – 20.70	\$2.50	0.440 – 27.30	\$1.50
0.580 – 20.70	\$2.50	0.410 – 29.30	\$3.00
0.580 – 20.70	\$2.50	0.350 – 34.30	\$6.00
0.520 – 23.10	\$7.50	0.490 – 24.50	
0.520 – 23.10	\$7.50	0.420 – 28.60	\$3.50
0.520 – 23.10	\$7.50	0.390 – 30.80	\$5.00
0.520 – 23.10	\$7.50	0.370 – 32.40	\$6.00
0.520 – 23.10	\$7.50	0.310 – 38.70	\$9.00
0.460 – 26.10	\$10.00	0.440 – 27.30	
0.460 – 26.10	\$10.00	0.370 – 32.40	\$3.50
0.460 – 26.10	\$10.00	0.350 – 34.30	\$4.50
0.460 – 26.10	\$10.00	0.330 – 36.40	\$5.50
0.460 – 26.10	\$10.00	0.280 – 42.90	\$8.00

*AHRI Standard 550/590

2003 Standard for Performance Rating of Water-Chilling Packages using the vapor compression cycle.

Thermal Storage Incentives	
	Incentive
THERMAL STORAGE UNIT	\$95/kW shifted

Program Requirements

Equipment Eligibility

- Duke Energy will use the AHRI database for verifying equipment efficiencies for all the chillers. If the equipment or matched set is not in the AHRI database, the manufacturer's technical fact sheets must be provided showing the efficiency level tested under AHRI conditions as described in AHRI standard 550/590. Equipment capacity (size) and efficiency must be based on AHRI design conditions. Full load efficiency rating (FL) and Integrated Part load Value (IPLV) must be provided for all chillers.
- Incentives for chillers will be paid based on the AHRI tons per unit.
- EER/COP and IPLV values shall include all connected loads, such as compressors, condenser fans, and control kW. Chiller components, such as motors and VFDs, are incented as part of the chiller package and are not independently eligible for prescriptive incentives during a chiller replacement
- Chiller incentives are only available for HVAC space cooling applications. All equipment installed must serve as a primary source of cooling for the facility. Industrial process cooling may qualify for a custom incentive.
- Chillers purchased and installed for backup or redundant systems are not eligible.
- Thermal Storage Units with a >1MW load shift are not eligible for incentives under the Prescriptive Program but can be considered for custom incentives.
- All equipment must be new to be eligible for incentives. Used equipment is *not* eligible for incentives.

Incentive Eligibility

- Incentives are only available to customers on a Duke Energy Ohio non-residential rate.
- Duke Energy Customers who purchase electric generation from an alternative supplier are eligible to participate.
- Incentive will not be paid until eligible equipment has been installed, is available to operate, and verification has been completed by Duke Energy staff as noted in the Term & Conditions stated below.
- Duke Energy reserves the right to revise incentive levels and/or qualifying efficiency levels at any time.
- Customer may assign the incentive to the vendor who installed/supplied the equipment. The customer's signature is required in the Payment Information section on page 1 of this form to assign the incentive to the vendor. Customer agrees that such an action constitutes an irrevocable assignment of the incentive. This assigned incentive must reduce the purchase price paid for the equipment by an equivalent amount.
- Leased equipment is eligible for incentives providing the equipment meets the program requirements and the customer provides the required documentation noted on the Incentive Application Process page of this application.
- Any equipment which, either separately or as part of a project, has or will receive an incentive from any other Duke Energy program is ineligible.
- In no case will Duke Energy pay an incentive above the actual cost of the new equipment.
- Incentive recipient assumes all responsibilities for any tax consequences resulting from Duke Energy incentive payment.
- To qualify for Duke Energy incentives, applicants who provide their social security number as their federal tax identification number for tax purposes must sign and return the "Customer consent to release personal information" form ("Consent Form") along with the application. Incentive applications are processed by a 3rd party vendor. The 3rd party vendor is responsible for mailing the 1099 form at the end of the calendar year for tax filing. Duke Energy and the 3rd party vendor have signed a confidentiality agreement to protect your personal information. If your social security number is your federal tax ID number and you elect not to sign the Consent Form, please do not send Duke Energy the application, as you will not be qualified to participate in the incentive program.

Terms and Conditions

I certify that this premise is served by Duke Energy (or an affiliate of Duke Energy), that the information provided herein is accurate and complete, and that I have purchased and installed the high efficiency equipment (indicated herein) for the business facility listed herein and not for resale. Attached is an itemized invoice for the indicated installed equipment. I understand that the proposed incentive payment from Duke Energy is subject to change based on verification and Duke Energy approval. I agree to Duke Energy verification of both the sales transaction and equipment installation which may include a site inspection from a Duke Energy representative or Duke Energy agent. I understand that I am not allowed to receive more than one incentive from Duke Energy on any piece of equipment. I also understand that my participation in the program may be taxable and that my company is solely responsible for paying all such taxes. I hereby agree to indemnify, hold harmless and release Duke Energy and its affiliates from any actions or claims in regards to the installation, operation and disposal of equipment (and related materials) covered herein including liability from an incidental or consequential damages. Duke Energy does not endorse any particular manufacturer, product or system design within these programs; does not expressly or implicitly warrant the performance of installed equipment (Contact your contractor for details regarding equipment warranties), and 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.



Incentive Application Instructions

IMPORTANT NOTICE

Delays in processing incentive payments will occur if required documentation is not included with completed application(s).

1. Contact Duke Energy toll free at 866-380-9580 to confirm customer eligibility. Applications are available for download at www.duke-energy.com.
2. Review program and equipment requirements on the incentive application.
3. Purchase and install eligible energy-efficient equipment.
4. Complete and submit application for equipment that was installed after 1/1/2008.
5. **The following items must be included to verify projects. If they are not included, it will delay payment of incentive.**
 - A. Itemized invoice for all equipment installed to include:
 - a. Equipment cost
 - b. Quantity per equipment type installed
 - c. Model # for each equipment type
 - d. Manufacturer's data sheet for each equipment model #.
 - B. **Make sure the account number provided on the cover page (customer information section) is associated with the location where the equipment was installed. If the account # does not match the address where the equipment was installed, the application will be rejected as ineligible.**
 - C. Provide required tax ID# for payee.
 - D. Customer must sign and date the application after reviewing the Terms and Conditions. If customer wishes to **assign payment of the incentive directly to the vendor**, the customer should circle the appropriate payee in the Payment Information section of the application and sign their name to authorize payment.
6. Duke Energy may require site verification of projects that have been self-installed, prior to payment of incentive.
8. Email the complete, signed application with all required documents to SelfDirect@duke-energy.com or fax to 513-419-5572.
8. A percentage of equipment installations will be site verified for quality assurance purposes. Once selected, a Duke Energy representative will contact the customer to arrange for the inspection. All incentive payments related to the project will be withheld until site verification is complete. There is no charge to the customer for these inspections.

Mercantile Self Direct Incentive Program Requirements for Vendor Participation

Program Overview

- Duke Energy offers its eligible non-residential customers the opportunity to increase profitability through energy cost savings and contribute to a cleaner environment by participating in our Mercantile Self Direct Incentive Program.
- Under the Duke Energy Mercantile Self Direct Incentive Program, Vendor is defined as any third party who:
 - Promotes the sale and installation of the high efficiency equipment for the customer. The Vendor will ensure that the eligible equipment is installed and operating before submitting the application or assisting the customer in completing the application.
 - Is responsible for the product sale only and is not required to ensure installation of the eligible equipment.
- All license requirements, if any, are solely the Vendor's responsibility. Participating Vendors include equipment contractors, equipment Vendors, equipment manufacturers and distributors, energy service companies, etc. The typical Vendor role is to contact/solicit eligible customers building new or retrofitting existing facilities and encourage the installation of the energy-efficient equipment offered in Duke Energy's program.
- Incentives are paid directly to customers unless the customer assigns the incentive to the Vendor. The assigned incentive must reduce the purchase price paid for the equipment by an equivalent amount. Incentives are taxable to the entity who receives the rebate check. Rebates greater than \$600 will be reported to the IRS unless documentation of tax exempt status is provided.
- Vendors can sign up to be on Duke Energy's Web site as a participating Vendor and be added to Duke Energy's e-mail distribution by faxing the Vendor Participation Agreement (VPA) to 513-419-5572 or emailing to SelfDirect@duke-energy.com.
- Vendors may not represent to customers that Duke Energy endorses their specific products or services. Duke Energy does not endorse specific products, services, or companies – only energy-efficient technologies.
- Vendors may advise customers of their option to have Duke Energy make their rebate check(s) payable to the Vendor if the customer's rebate amount is being deducted from the total sale price in advance. The customer must complete and sign the Payment Release Authorization section of the Mercantile Self Direct Incentive Program Application.
- Vendors may use the words "Duke Energy's Mercantile Self Direct Incentive Program" in promotional materials or advertisements. Vendors may use the name Duke Energy in a text format to describe the Mercantile Self Direct Incentive Program, but are not permitted to use Duke Energy's logos.
- For Vendors who properly install the qualifying equipment, the equipment shall be installed and operating prior to an application being submitted. A percentage of each Vendor's installations will be subject to inspection by Duke Energy for verifying that the equipment is installed and operating. Vendors demonstrating high failure rates (based on a statistically significant sample) will have 100% of subsequent jobs inspected or may have their participation in the Mercantile Self Direct Incentive Program revoked by Duke Energy in its sole discretion.
- Vendors shall provide customers with applicable equipment warranty information for all measures installed. Vendors shall provide the required documentation for customers to apply for the rebate (invoices with model numbers and quantities, specification sheets for installed equipment, etc.) and assist customers in filling out the application.
- Vendors shall comply with all applicable local, state, and federal laws and codes when performing installation and related functions.

Guidelines for Vendor Activities

- Vendors shall sign and return the attached VPA to Duke Energy prior to soliciting customer participation or when submitting an application. Rebate payments will not be released to a Vendor unless a signed VPA is on file.

Vendors shall not misrepresent the nature of their role in the program. In particular, Vendors shall not state or imply to customers, or any persons, that the Vendor is employed by or working on Duke Energy's behalf.

- Duke Energy reserves the right to revoke a Vendor's participation in Mercantile Self Direct Incentive Program if, in Duke Energy's sole judgment, the Vendor fails to comply with the program's guidelines and requirements.
- Mercantile Self Direct Incentive Program offerings may be modified or terminated without prior notice. Check Duke Energy's Web site for current program status.

For more information, call 1-866.380.9580 or visit www.duke-energy.com.



Mercantile Self Direct Rebate Program

Technology	Responsible for sales and not installs*	Responsible for sales and Installation*	Technology	Responsible for sales and not installs*	Responsible for sales and Installation*
Lighting	<input type="checkbox"/>	<input type="checkbox"/>	Thermal Storage	<input type="checkbox"/>	<input type="checkbox"/>
Heating Ventilation & Cooling	<input type="checkbox"/>	<input type="checkbox"/>	Pumps/Motors/VFD's	<input type="checkbox"/>	<input type="checkbox"/>
Food Service	<input type="checkbox"/>	<input type="checkbox"/>	Chillers	<input type="checkbox"/>	<input type="checkbox"/>
Water Heating	<input type="checkbox"/>	<input type="checkbox"/>	Refrigeration	<input type="checkbox"/>	<input type="checkbox"/>
Process Equipment (air compressors, injection molding, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	Window Film	<input type="checkbox"/>	<input type="checkbox"/>

* Check all that apply

Vendors who wish to be listed as a Mercantile Self Direct Incentive Program participating Vendor shall complete this form. A signed copy of this form must be on file at Duke Energy in order for the Vendor to receive incentive payments. Fax form to 513-419-5572 or email to SelfDirect@duke-energy.com.

I have read and understand the Mercantile Self Direct Incentive Program Requirements for Vendor Participation, and I agree to comply with all requirements set forth therein. By signing this agreement, I agree to provide my customers with information and documentation that is true and accurate to the best of my knowledge. I hereby represent and warrant that the Tax ID and Vendor Tax Status provided below are true and accurate. I agree that any confidential information concerning my customer, including but not limited to Duke Energy service account information, will be used for the sole purpose of facilitating the customer's participation in the Mercantile Self Direct Incentive Program. Further, I understand that I am responsible for making sure everyone working for me understands the requirements prior to soliciting customer participation.

Vendor Federal Tax ID Number	
------------------------------	--

To qualify for Duke Energy incentives, applicants who provide their social security number as their federal tax identification number for tax purposes must sign and return the "Customer consent to release personal information" form ("Consent Form") along with the application. Incentive applications are processed by a third-party vendor. The third-party vendor is responsible for mailing the 1099 form at the end of the calendar year for tax filing. Duke Energy and the third-party vendor have signed confidentiality agreement to protect your personal information. If your social security number is your federal tax ID number and you elect not to sign the Consent Form, please do not send Duke Energy the application. As you will not be qualified to participate in the incentive program.

Vendor Tax Status	<input type="checkbox"/> Corporation	<input type="checkbox"/> Individual/Sole Proprietor	<input type="checkbox"/> Partnership	<input type="checkbox"/> Other
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Contact me via	<input type="checkbox"/> Phone	<input type="checkbox"/> E-Mail	<input type="checkbox"/> Mail
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Company Name	
Mailing Address	
City, State, Zip	
Phone/Fax	
Primary E-mail Address	
Secondary E-mail Address	
Vendor Signature	
Title	
Print Name	
Date	

For more information, call 1-866-380-9580 or visit www.duke-energy.com.



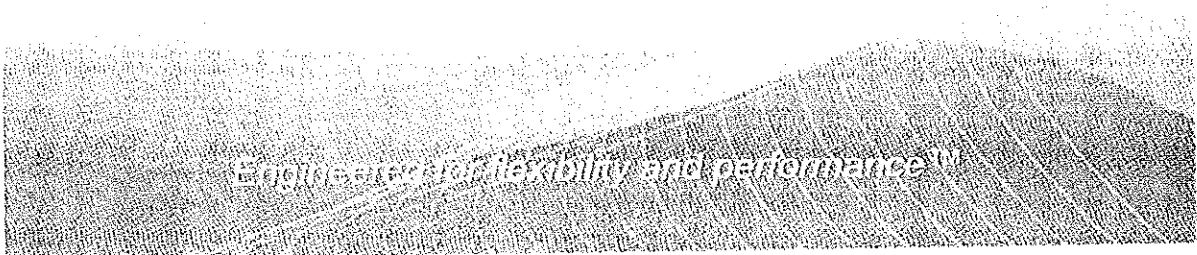
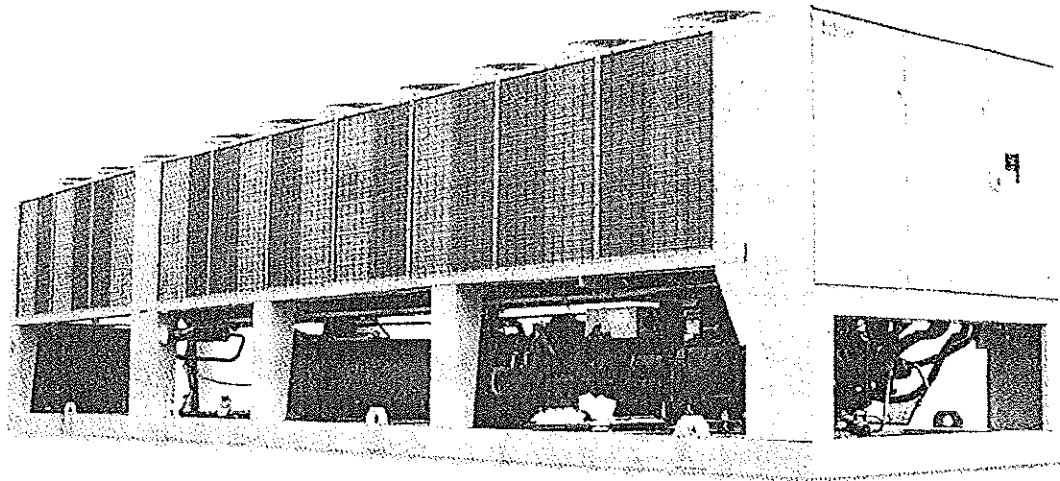
Air Cooled Screw Compressor Chillers

Catalog 610-1

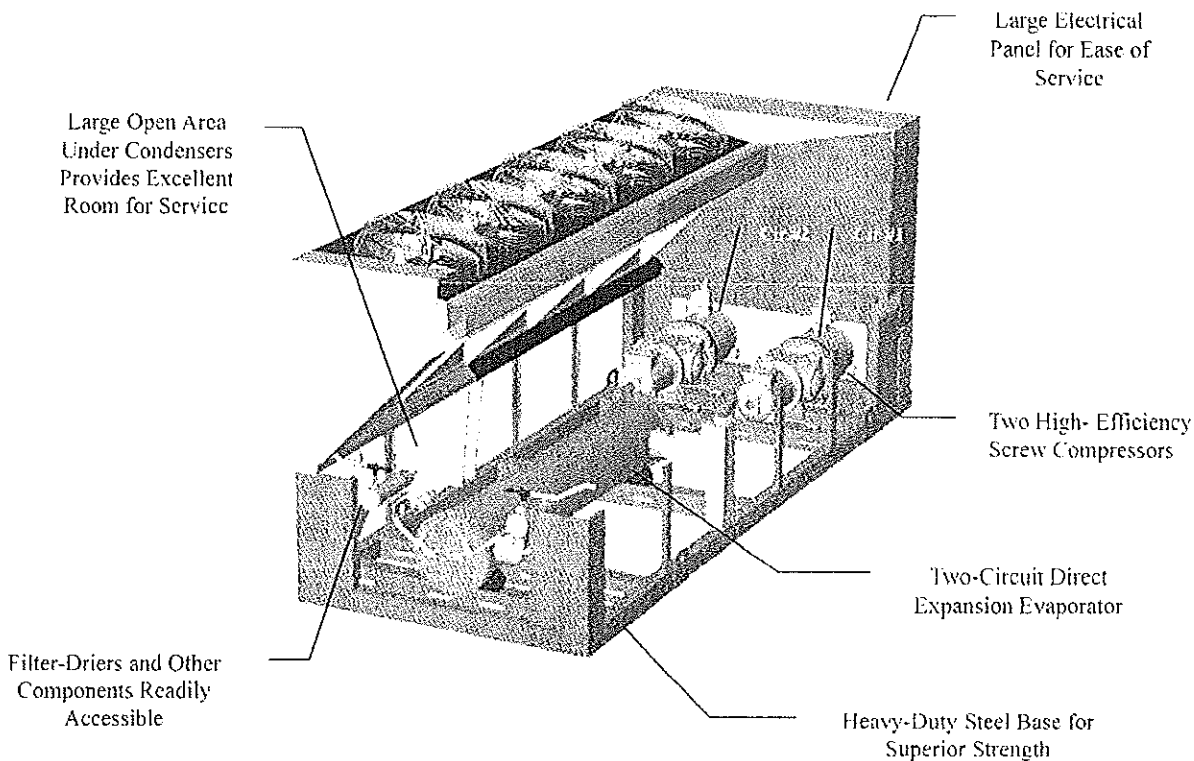
Models AGS140-200D Packaged

Models AGS140-210D Remote Evaporator

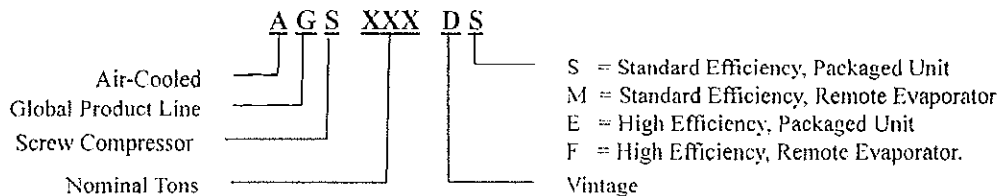
140-200 tons (490-703 kW)



**Cutaway View of an AGS-170DS Chiller
Typical of Models AGS 140D through AGS 210D**



Model Code



HAZARD IDENTIFICATION INFORMATION

⚠ CAUTION

Cautions indicate potentially hazardous situations, which can result in personal injury or equipment damage if not avoided.

Performance Data

Standard Efficiency

Table 8, Performance, Inch-pound Units

AGS Unit Size	Fan Power (kW)	LWT (°F)	Ambient Air Temperature (deg F)														
			75			85			95			105			115		
			Unit	PWR	EER	Unit	PWR	EER	Unit	PWR	EER	Unit	PWR	EER	Unit	PWR	EER
			Tons	kWi	EER	Tons	kWi	EER	Tons	kWi	EER	Tons	kWi	EER	Tons	kWi	EER
140DS	18	40	143.7	138.9	12.4	135.1	148.9	10.9	126.4	160.2	9.5	117.5	172.6	8.2	108.5	186.2	7.0
		42	149.5	141.8	12.7	140.6	151.8	11.1	131.6	163.1	9.7	122.5	175.5	8.4	113.3	189.2	7.2
		44	155.5	144.7	12.9	146.3	154.8	11.3	137.0	166.1	9.9	127.6	178.6	8.6	118.1	192.2	7.4
		46	161.5	147.8	13.1	152.1	157.9	11.6	142.5	169.2	10.1	132.8	181.7	8.8	123.0	195.4	7.6
		48	167.7	151.0	13.3	158.0	161.0	11.8	148.1	172.3	10.3	138.1	184.9	9.0	128.0	198.6	7.7
		50	174.1	154.3	13.5	164.0	164.3	12.0	153.8	175.6	10.5	143.5	188.2	9.2	133.1	201.9	7.9
160DS	18	40	163.4	158.6	12.4	153.5	170.1	10.8	143.3	183.0	9.4	133.1	197.2	8.1	122.9	212.6	6.9
		42	169.9	162.0	12.6	159.6	173.6	11.0	149.2	186.4	9.6	138.7	200.7	8.3	128.1	216.2	7.1
		44	176.5	165.6	12.8	165.9	177.1	11.2	155.2	190.0	9.8	144.4	204.3	8.5	133.4	219.9	7.3
		46	183.3	169.3	13.0	172.4	180.8	11.4	161.3	193.8	10.0	150.1	208.0	8.7	138.9	223.6	7.5
		48	190.2	173.1	13.2	179.0	184.7	11.6	167.5	197.6	10.2	156.0	211.9	8.8	144.4	227.5	7.6
		50	197.2	177.0	13.4	185.6	188.6	11.8	173.9	201.6	10.4	162.0	215.9	9.0	150.1	231.5	7.8
170DS	18	40	171.8	171.8	12.0	161.5	183.7	10.5	150.9	197.1	9.2	140.3	212.1	7.9	129.6	228.6	6.8
		42	178.7	175.5	12.2	168.1	187.4	10.8	157.3	200.8	9.4	146.3	215.8	8.1	135.3	232.3	7.0
		44	185.8	179.4	12.4	174.9	191.2	11.0	163.7	204.6	9.6	152.4	219.6	8.3	141.0	236.2	7.2
		46	193.1	183.4	12.6	181.8	195.2	11.2	170.3	208.6	9.9	158.6	223.6	8.5	146.9	240.2	7.3
		48	200.5	187.6	12.8	188.9	199.3	11.4	177.0	212.7	9.9	165.0	227.7	8.7	152.9	244.2	7.5
		50	208.1	191.8	13.0	196.1	203.6	11.6	183.9	217.0	9.9	171.5	231.9	8.9	159.0	248.5	7.7
190DS	21.6	40	175.1	174.6	12.0	169.9	191.6	10.6	164.3	211.6	9.3	158.2	235.0	8.1	151.8	262.1	7.0
		42	181.3	177.8	12.2	176.0	194.8	10.8	170.3	214.9	9.5	164.2	238.5	8.3	157.6	265.8	7.1
		44	187.6	181.1	12.4	182.3	198.2	11.0	176.5	218.4	9.7	170.2	242.2	8.4	163.6	269.6	7.3
		46	194.1	184.4	12.6	188.6	201.6	11.2	182.7	222.0	9.9	176.4	246.9	8.6	169.6	273.5	7.4
		48	200.6	187.9	12.8	195.1	205.1	11.4	189.1	225.6	10.1	182.7	249.7	8.8	175.8	277.5	7.6
		50	207.2	191.5	13.0	201.7	208.8	11.6	195.6	229.4	10.2	189.0	253.6	8.9	182.1	281.8	7.8
200DS	21.6	40	187.5	185.1	12.2	181.9	203.0	10.8	175.9	224.1	9.4	169.4	248.8	8.2	162.5	277.3	7.0
		42	194.1	188.4	12.4	188.5	206.4	11.0	182.3	227.6	9.6	175.8	252.5	8.4	168.7	281.2	7.2
		44	200.8	192.0	12.5	195.1	209.9	11.2	188.9	231.3	9.8	182.2	256.4	8.5	175.1	285.3	7.4
		46	207.7	195.6	12.7	201.9	213.7	11.3	195.6	235.2	10.0	188.8	260.3	8.7	181.6	289.5	7.5
		48	214.6	199.3	12.9	208.7	217.5	11.5	202.3	239.0	10.2	195.5	264.5	8.9	188.1	293.8	7.7
		50	221.9	203.3	13.1	215.8	221.4	11.7	209.3	243.1	10.3	202.3	268.7	9.0	194.8	298.3	7.8

NOTES:

1. Rated in accordance with ARI Standard 550/590-2003.
2. Ratings based on R-134a, evaporator fouling factor of 0.0001, 10-degree Delta-T, evaporator flow of 2.4 gpm/ton and sea level altitude.
3. Interpolation is allowed, extrapolation is not permitted. Consult McQuay for performance outside the cataloged ratings.
4. kW and EER are for the entire unit, including compressors, fan motors and control power.

Table 9, Part Load Performance

UNIT SIZE	% LOAD	CAPACITY TONS	POWER KWI	EER	IPLV
140DS	100	137.0	166.1	9.9	12.9
	75	102.8	102.7	12.0	
	50	68.5	59.3	13.9	
	25	34.3	32.2	12.8	
160DS	100	155.2	190.0	9.8	13.0
	75	116.4	118.2	11.8	
	50	77.6	65.4	14.2	
	25	38.8	35.7	13.1	
170DS	100	163.7	204.6	9.6	12.5
	75	122.8	126.5	11.6	
	50	81.8	73.3	13.4	
	25	40.9	39.4	12.5	
190DS	100	176.5	217.3	9.7	12.5
	75	132.4	140.4	11.3	
	50	88.3	78.2	13.5	
	25	44.1	42.1	12.6	
200DS	100	188.9	231.3	9.8	12.5
	75	141.7	149.8	11.4	
	50	94.5	83.3	13.6	
	25	47.2	44.9	12.6	

NOTES:

1. Rated in accordance with ARI Standard 550/590-2003.



SERVICES DEPARTMENT
WEST CHESTER TOWNSHIP, OHIO

DATE: June 5, 2012

RE: West Chester Township Library
Confirmation Cost Information for Lighting/Pumps/Motors/Chillers
Application ID 114937

To Whom It May Concern:

This letter is to confirm that for the renovation to the HVAC mechanical systems of the West Chester Township Library for the MSD Custom rebate applications, the chiller was installed with a minimum unit cost listed below.

Description/Model#	Quantity	Price/Fixture	Amount
McQuay / AGS160DSHNN-ER10	1	\$67,200.00	\$67,200.00

Total Equipment Cost: \$67,200.00

Sincerely yours,

A handwritten signature in black ink, appearing to read "Tim Franck".

Tim Franck
West Chester Community Services Director