



Public Utilities Commission

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

Case No.: 20-1359-EL-EEC

Mercantile Customer: The Electro Prime Group LLC

Electric Utility: The Toledo Edison Company

Program Title or Description: Energy Saving Projects

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 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 for a period of up to 12 months will also qualify for the 60-day automatic approval. However, all applications requesting an exemption from the EEDR rider for longer than 12 months must provide additional information, as described within the Historical Mercantile Annual Report Template, that demonstrates additional energy savings and the continuance of the Customer's energy efficiency program. This information must be provided to the Commission at least 61 days prior to the termination of the initial 12 month exemption period to prevent interruptions in the exemption period.

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 altered or 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: The Electro Prime Group LLC

Principal address: 4510 Lint Ave., suite B.

Address of facility for which this energy efficiency program applies: 63 Dixie Hwy

Name and telephone number for responses to questions: John Burgan, 419-340-1715

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. (Please attach documentation.)
- ☐ The customer is part of a national account involving multiple facilities in one or more states. (Please attach documentation.)

Section 2: Application Information

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

- ☐ Individually, without electric utility participation.
- ☒ Jointly with the electric utility.

B) The electric utility is: The Toledo Edison Company

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)). **If Checked, Please see Exhibit 1 and Exhibit 2**
- ☒ Installation of new equipment to replace failed equipment which has no useful life remaining. The customer installed new equipment on the following date(s): 6/1/20 and 8/15/20.
- ☐ Installation of new equipment for new construction or facility expansion. The customer installed new equipment on the following date(s):

- ☐ Behavioral or operational improvement.

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

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

Annual savings: _____ kWh

- 2) If you checked the box indicating that the customer installed new equipment to replace failed equipment which had no useful life remaining, then calculate the annual savings [(kWh used by new standard equipment) - (kWh used by the optional higher efficiency new equipment) = (kWh per year saved)]. Please attach your calculations and record the results below:

Annual savings: 354,977 kWh

Please describe any less efficient new equipment that was rejected in favor of the more efficient new equipment. **Please see Exhibit 1 if applicable**

Please describe any less efficient new equipment that was rejected in favor of the more efficient new equipment. **Please see Exhibit 1 if applicable**

- 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 standard new equipment) - (kWh used by optional higher efficiency new equipment) = (kWh per year saved)]. Please attach your calculations and record the results below:

Annual savings: _____ kWh

Please describe the less efficient new equipment that was rejected in favor of the more efficient new equipment. **Please see Exhibit 1 if applicable**

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

Annual savings: _____ kWh

Section 4: Demand Reduction/Demand Response Programs

A) The customer's program involves (check the one that applies):

- ☐ This project does not include peak demand reduction savings.
- ☒ 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?

6/1/20, 8/15/20

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

6/1/20 26 KW (see pgs 13-16 of this document for supporting details)
8/15/20 17 KW (see pgs 35 & 36 of this document for supporting details)
Total 43KW

Section 5: Request for Cash Rebate Reasonable Arrangement, Exemption from Rider, or Commitment Payment

Under this section, check all boxes that apply and fill in all corresponding blanks.

A) The customer is applying for:

☒ A cash rebate reasonable arrangement.

☐ An exemption from the energy efficiency cost recovery mechanism implemented by the electric utility.

☐ Commitment payment

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

A cash rebate reasonable arrangement.

☒ A cash rebate of \$7,891. (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.)

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.)

☐ 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 12 month period, the customer will need to complete, and file within this application, the Historical Mercantile Annual Report

Template to verify the projects energy savings are persistent.

- ☐ A commitment payment valued at no more than \$____. (Attach documentation and calculations showing how this payment amount was determined.)

Section 6: Cost Effectiveness

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

- ☐ Total Resource Cost (TRC) Test. The calculated TRC value is: _____(Continue to Subsection 1, then skip Subsection 2)
- ☒ Utility Cost Test (UCT) . The calculated UCT value is: **See Exhibit 3** (Skip to Subsection 2.)

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 **See Exhibit 3**

The utility's program costs were **See Exhibit 3**

The utility's incentive costs/rebate costs were **See Exhibit 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.
- 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.



Public Utilities Commission

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

Case No.: 20-1359-EL-EEC

State of Ohio :

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

1. I am the duly authorized representative of:

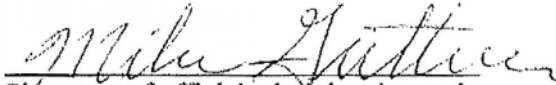
The Electro Prime Group LLC

[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.


Signature of Affiant & Title *maintenance manager*

Sworn and subscribed before me this 25 day of August, 2020 Month/Year


Signature of official administering oath

Mike Cauthrie Notary Public
Print Name and Title

MICHAEL CAUTHRIE
Notary Public, State of Ohio
My Commission Expires 05-25-2022

My commission expires on 5/25/2022



Customer Legal Entity Name: The Electro Prime Group, LLC
Site Address: The Electro Prime Group, LLC
Principal Address: 63 Dixie Hwy, Rossford 43460

Project No.	Project Name	Narrative description of your program including, but not limited to, make, model, and year of any installed and replaced equipment:	Description of methodologies, protocols and practices used in measuring and verifying project results	What date would you have replaced your equipment if you had not replaced it early? Also, please explain briefly how you determined this future replacement date.	Please describe the less efficient new equipment that you rejected in favor of the more efficient new equipment.
1	LED High Bay Upgrades	Elctro Prime's state-of-the-art plants e-coat, powder coat and assemble millions of pieces every month. Electro Prime handles packaging, warehousing and just-in-time delivery for leading companies in automotive, fastener and a host of other industri	FirstEnergy lighting calculator used for calculations	N/A	Metal Halide lamps & ballasts were considered but rejected for the longer life & energy savings from LEDs
2	New Air Compressor	The new Sullair model SN7509V S-energy series, variable speed rotary screw air compressor will replace the following three air compressors. Sullair model ES11-50L - 50.00 HP, Sullair Model ES8- 25H - 25.00 HP and Quincy Model QSI -490 - 100.00 HP	Savings calcuatlons based on the compressed air study	N/A	air compressors without variable speed were considered but the more energy efficient model was chosen.

Exhibit 2

Customer Legal Entity Name: The Electro Prime Group, LLC

Site Address: The Electro Prime Group, LLC

Principal Address: 63 Dixie Hwy, Rossford 43460

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (C) <i>Note 1</i>
2019	3,000,000	3,000,000	3,000,000
Average	3,000,000	3,000,000	3,000,000

Project Number	Project Name	In-Service Date	Project Cost \$	50% of Project Cost \$	KWh Saved/Year (D) counting towards utility compliance	KWh Saved/Year (E) eligible for incentive	Utility Peak Demand Reduction Contribution, KW (F)	Prescriptive Rebate Amount (G) \$	Eligible Rebate Amount (H) \$ <i>Note 2</i>	Commitment Payment \$
1	LED High Bay Upgrades	06/01/2020	\$6,436	\$3,218	207,663	207,663	26	\$3,154	\$2,366	
2	New Air Compressor	08/15/2020	\$48,570	\$24,285	147,314	147,314	17	\$7,366	\$5,525	
					-	-	-	\$10,520		
					-	-	-			
					-	-	-			
					-	-	-			
					-	-	-			
Total			\$55,006		354,977	354,977	43	\$10,520	\$7,891	\$0

Docket No. 20-1359

Site: 63 Dixie Hwy, Rossford 43460

Notes

(1) Customer's usage is adjusted to account for the effects of the energy efficiency programs included in this application. When applicable, such adjustments are prorated to the in-service date to account for partial year savings.

(2) The eligible rebate amount is based upon 75% of the rebates offered by the FirstEnergy Commercial and Industrial Energy Efficiency programs, not to exceed the lesser of 50% of the project cost or \$250,000 per project. Combined Heat & Power (CHP) projects are not subject to the \$250,000 project rebate cap.

Exhibit 3

UCT = Utility Avoided Costs / Utility Costs

Project	Utility Avoided Cost \$ (A)	Utility Cost \$ (B)	Cash Rebate \$ (C)	Administrator Variable Fee \$ (D)	Total Utility Cost \$ (E)	UCT (F)
1	\$ 103,053	\$ 2,025	\$ 2,366	\$2,077	\$ 6,467	15.9
2	\$ 73,105	\$ 2,025	\$ 5,525	\$1,473	\$ 9,023	8.10
Total	176,157	4,050	7,891	\$3,550	15,491	11.4

Notes

- (A) Represents NPV of avoided energy and capacity costs over a 10 year life multiplied by the annual project savings.
- (B) Represents the utility's costs incurred for self-directed mercantile applications for applications filed and applications in progress. Includes incremental costs of legal fees, fixed administrative expenses, etc.
- (C) This is the amount of the Rebate Payment paid to the customer for this
- (D) Based on approximate Administrator's variable compensation for purposes of calculating the UCT, actual compensation may be less.
- (E) = (B) + (C) + (D)
- (F) = (A) / (E)

The Electro Prime Group, LLC ~ The Electro Prime Group, LLC

Docket No. 20-1359

Site: 63 Dixie Hwy, Rossford 43460

Project Estimated Summary

Lighting Incentive Program

Customer Name	The Electro Prime Group
Building Name	The Electro Prime Group
Building Address	63 Dixie Hwy, Rossford 43460

Estimated Annual Energy Savings (kWh)	207,663.03	
Demand Reduction (kW _{Summer})	26.08	
Annual Operating Hours	6631	
Total Calculated Project Incentive	\$3,153.70	

Equipment Category	kW	kWh	Quantity	Incentive
Lighting Controls	-	-	0	\$0.00
Linear Fluorescent T8 & T5	-	-	0	\$0.00
Linear LED	-	-	0	\$0.00
Exit Signs	-	-	0	\$0.00
LED Fixtures External	-	-	0	\$0.00
LED Fixtures Internal	-	-	0	\$0.00
LED Lamps	-	-	0	\$0.00
LED Reach-in Refrigerator/Freezer Lighting	-	-	0	\$0.00
LED Channel Signage	-	-	0	\$0.00
Street and Area Lighting	-	-	0	\$0.00
Custom - Process Improvement	26.08	207,663.03	44	\$3,153.70

Sodexo, Inc. - 1 (866) 578-5220 | energysaveOH@sodexo.com

Deemed kW Savings	26.08
As Found kW Savings	26.08
Total kW Savings	26.08
Deemed kWh Savings	207663.03
As Found kWh Savings	207663.03
Total kWh Savings	207663.03
Non Prescriptive kWh Savings	0.00

[illegible]

Compressed Air System Assessment

Electro Prime

Air Analysis 1019
63 Dixie Highway
Rossford, Ohio 43460
Contact:

Performed by
Diversified Air Systems
12295 Williams Road
Perrysburg, 43551
Auditor: Jeremy Theis
Report Date: 11/4/2019

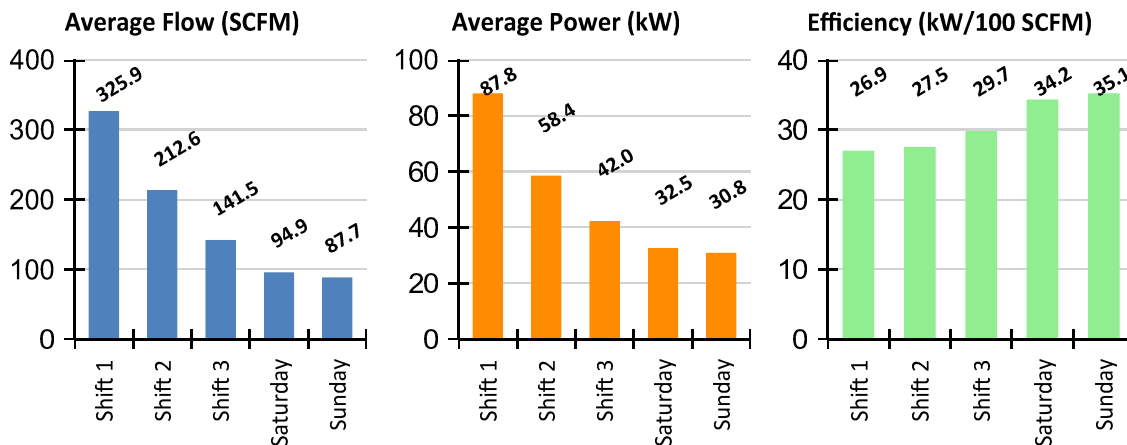
Electro Prime Compressed Air Audit - 10/23/2017 to 10/30/2017

System Performance Summary			
	Flow	Pressure	Power
Abs. Minimum	0.0 SCFM	0.0 psig	0.0 kW/ 0.0 HP
Minimum*	0.0 SCFM	72.6 psig	9.1 kW/ 12.2 HP
Average*	189.0 SCFM	96.6 psig	54.1 kW/ 72.6 HP
Maximum	730.3 SCFM	103.9 psig	164.7 kW/ 220.8 HP
Total Annual kWh 470,453 kWh		Energy Cost @ \$0.080/kWh \$37,410	
Peak kW 120.8 @ 10/25/17 7:26:30 AM		Demand Cost @ \$10/kWh \$14,495	
Total Annual Cost = \$51,905			

*Includes measurements and data only when the system was pressurized and compressor running

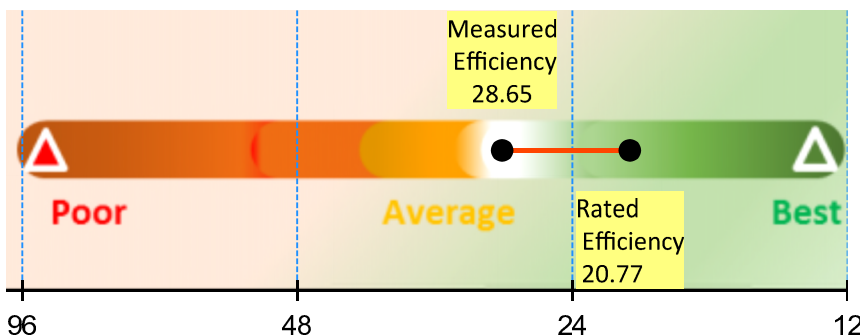
The table above summarizes the compressed air system performance for the measurement period and the calculated annual energy cost.

The charts below illustrate the average system performance across typical shifts. While the time divisions represented below may not match the exact production schedules for this facility, they do provide a basic reference to help visualize the variance in compressed air utilization as well as energy impact and efficiency.



Production = Mon. - Fri. Shift 1 = 7am to 3pm, Shift 2 = 3pm to 11 pm, Shift 3 = 11pm to 7am. Weekend = 11pm to 11pm Sat. Sun.

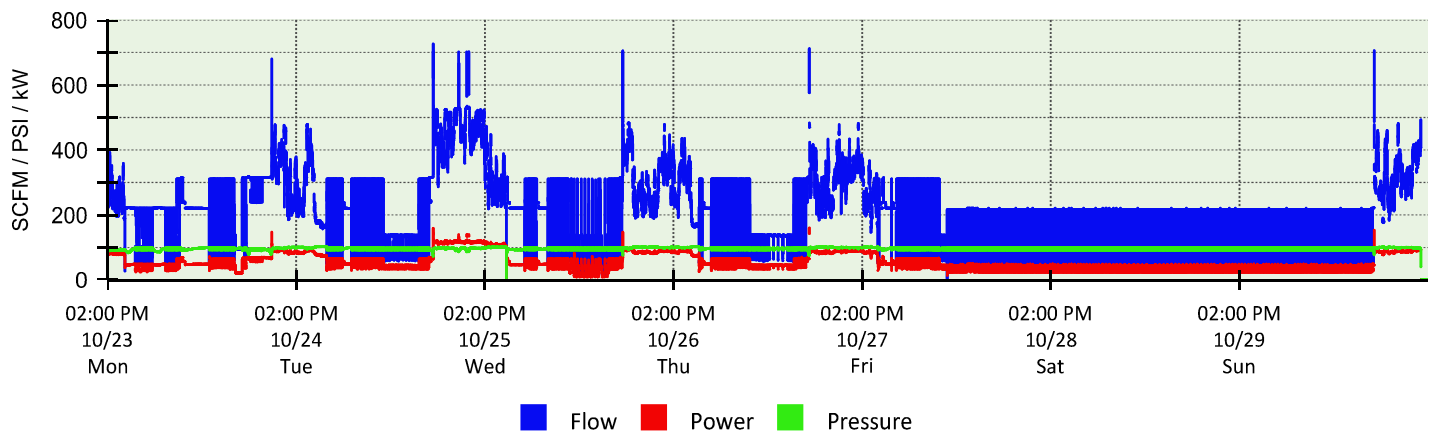
Overall System Efficiency - kW/100 CFM



Specific Power (kW/100 CFM) is a normalized performance metric for representing the efficiency of a compressed air system. The graphic to the left provides a snapshot assessment of the maximum potential performance of your system – the Rated Efficiency – compared to its actual Measured Efficiency.

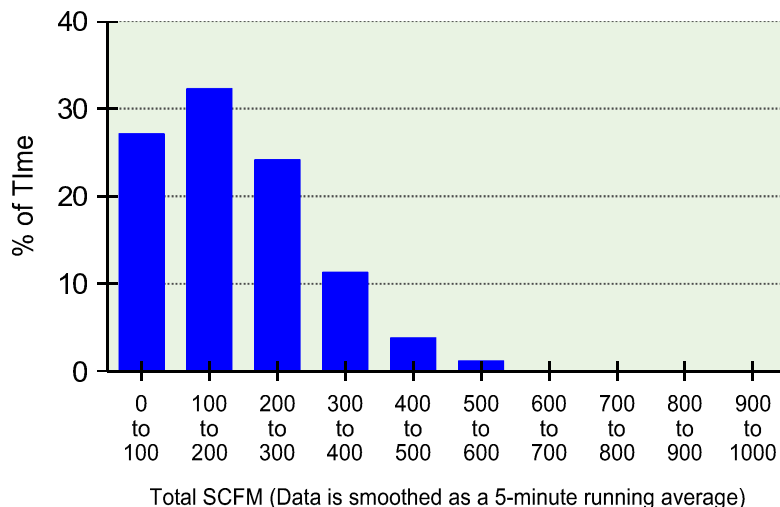
Company Information	Project Details	
Electro Prime	Project Name	Air Analysis 1019
63 Dixie Highway	Data Collected	10/23/2017 to 10/30/2017
Rossford, Ohio 43460	Samples Collected	161,280
	Site Temperature	65 °F
	Site Relative Humidity	60.0%
	Site Elevation	593 ft.
	Utility Company Name	Generic
	Energy Rate	\$0.080/kWh
	Demand Rate	\$10/kW/Month
	Annual Operating Hours	8,736
Report Date: 11/4/2019	Percent Run Time	99%
Audit Performed by: Diversified Air Systems Jeremy Theis		

System Summary



The graph above represents the overall compressed air system (supply side) performance for the entire data recording session. It illustrates the total flow output of the compressors (in blue) with the actual minimum and maximum values. This graph also includes the average discharge pressure at the compressors (in green) and the total power required (in red) for the system. The intent of the graph is to illustrate the true variance in the system performance across time and the compressors control response and the required power to meet that variance.

Demand Flow Distribution Curve



The Flow Histogram and associated table illustrate the actual demand requirements of the system. The data in this format provides a time weighted visualization of system performance - allowing one to quickly focus efficiency efforts on ranges of flow with the greatest impact.

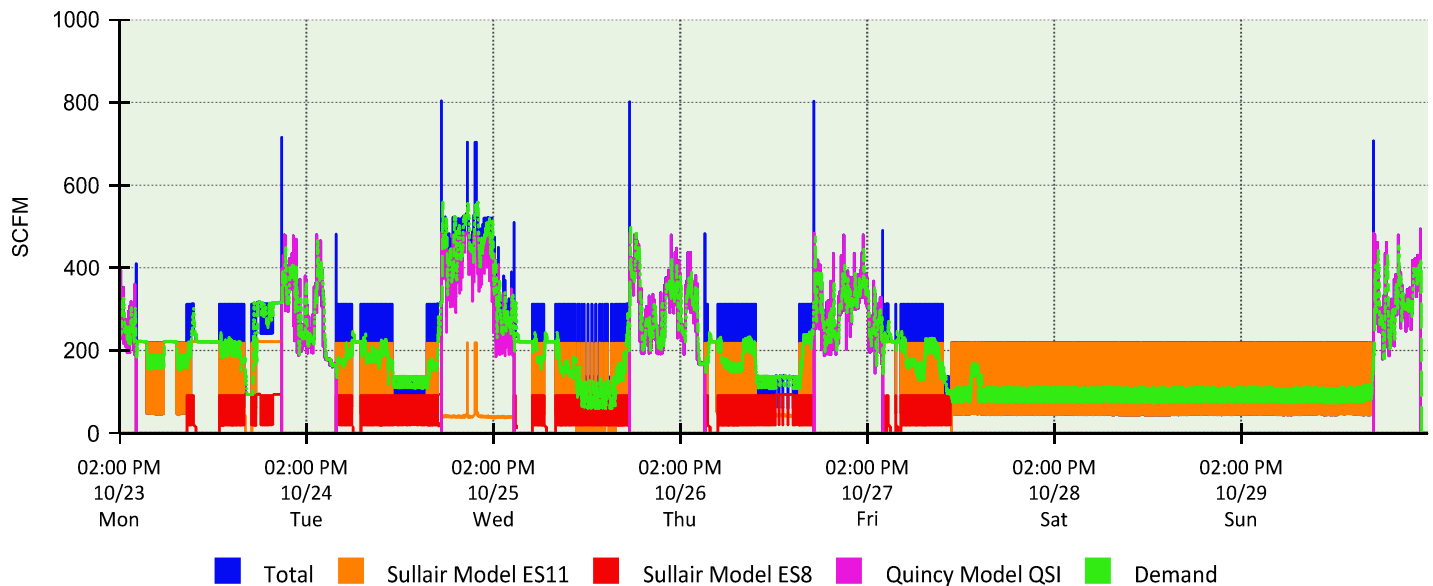
SCFM	Average	Percentage	Hrs/Week	Cumulative %
0-100	80.9	27.14	45.6	27.1
100-200	145.0	32.29	54.3	59.4
200-300	235.8	24.18	40.6	83.6
300-400	342.8	11.32	19.0	94.9
400-500	442.5	3.85	6.5	98.8
500-600	523.4	1.21	2.0	100.0
600-700	0.0	0.00	0.0	100.0
700-800	0.0	0.00	0.0	100.0
800-900	0.0	0.00	0.0	100.0
900-1000	0.0	0.00	0.0	100.0

Compressor Performance Summary

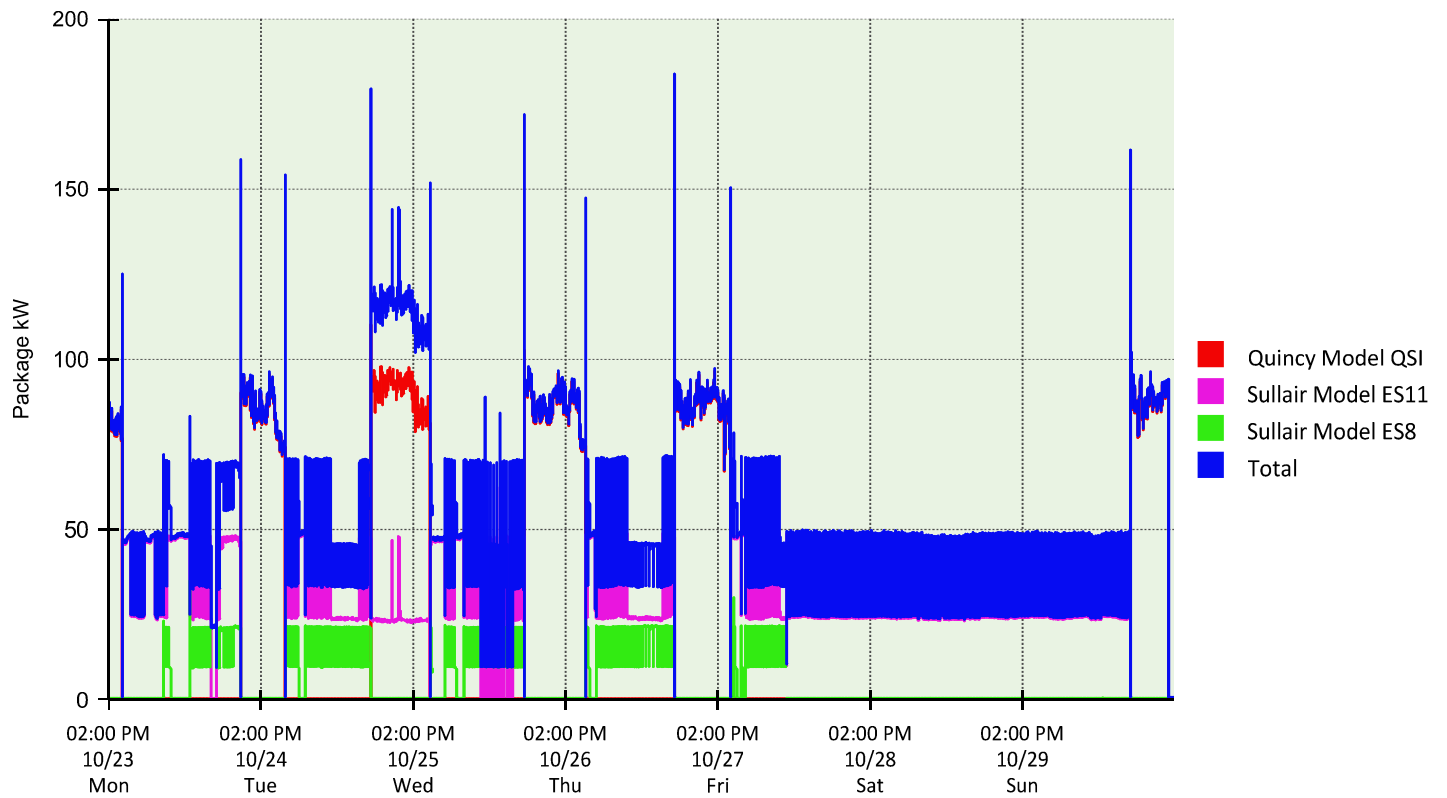
Compressor Information	Full Load Ratings			Performance Summary					
Name, Manufacturer, Model, Nominal Power, Control Type	Full Load Flow	Rated Pressure	Full Load Package Power	% Run Time	Average Flow*	Average Pressure*	Average Power*	Measured Efficiency*	Annual Energy Cost**
Sullair Model ES11 Sullair ES11-50L 50.00 HP Inlet Modulation With Blow Down	224 ACFM	100 Psig	46.4 kW	77.4%	117.9 SCFM	95.8 Psig	34.3 kW / 46 HP	29.1 kW / 100 SCFM	\$18,554
Sullair Model ES8 Sullair ES8-25H 25.00 HP Inlet Modulation With Blow Down	94 ACFM	125 Psig	23.4 kW	32.1%	50.8 SCFM	95.9 Psig	14.8 kW / 19.9 HP	29.2 kW / 100 SCFM	\$3,331
Quincy Model QSI Quincy QSI-490 100.00 HP Inlet Modulation With Blow Down	489 ACFM	100 Psig	97.7 kW	25.5%	314.9 SCFM	99.2 Psig	87 kW / 116.6 HP	27.6 kW / 100 SCFM	\$15,525
Total (System)	807 ACFM	N/A	167.6 kW	99.5%	189 SCFM	96.6 Psig	54.1 kW / 72.6 HP	28.6 kW / 100 SCFM	\$37,410
* Averages include data only when compressor was running **Annual Energy Cost does not include demand charges									

The table above and graphs below summarizes how each compressor performed during the measurement period as well as providing an overall system summary. The intent is to illustrate how each compressor contributed to the total system performance and overall how the compressor(s) control responded to meet the variance in system demand.

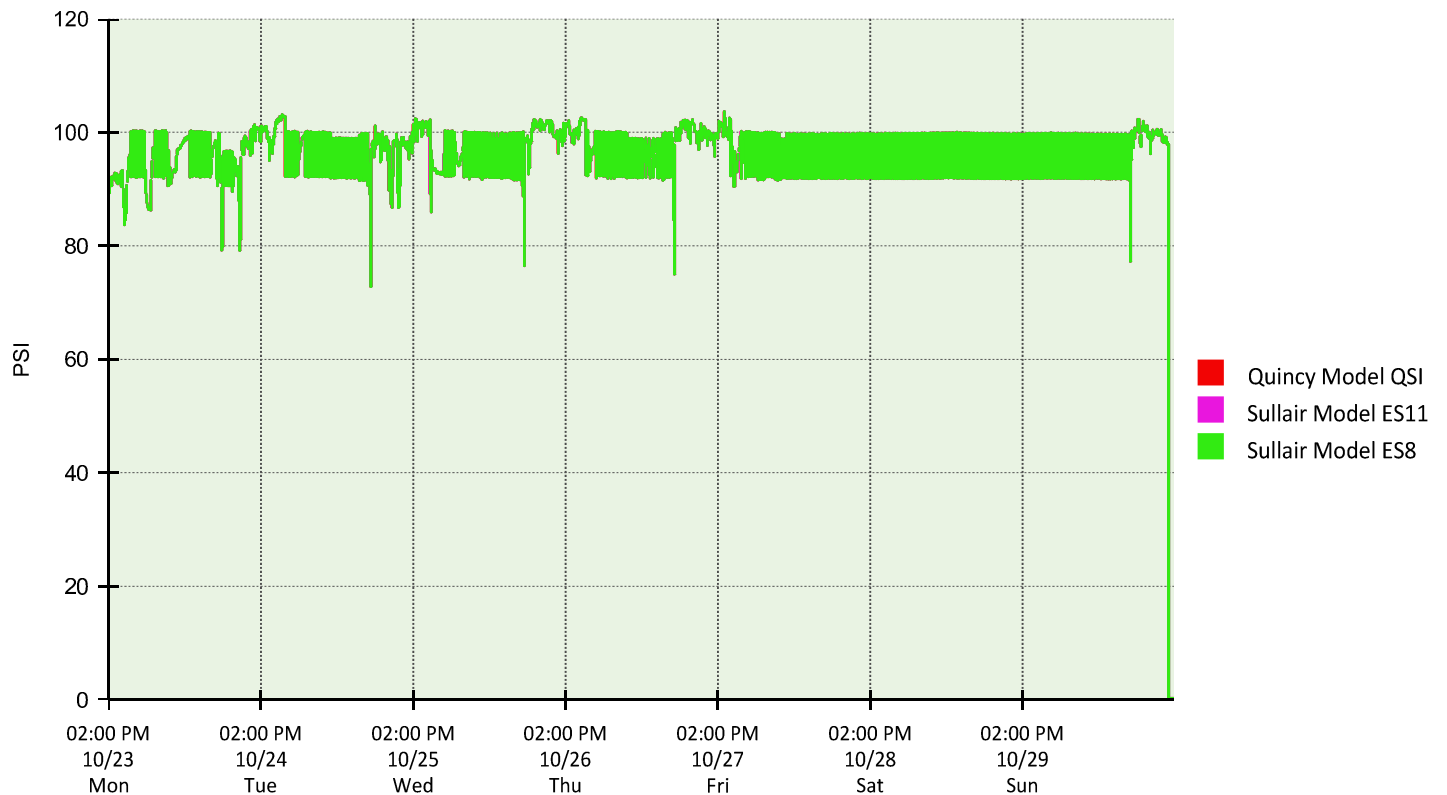
Flow Summary



Power Summary



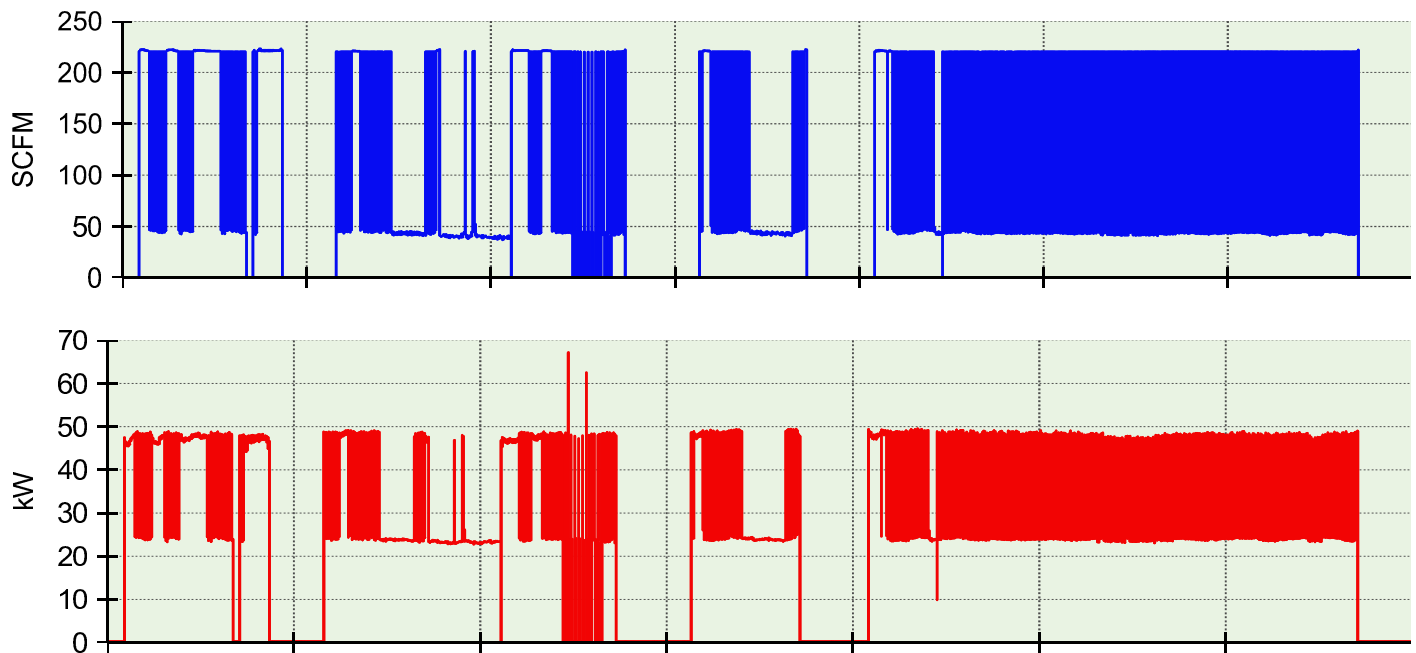
Pressure Summary

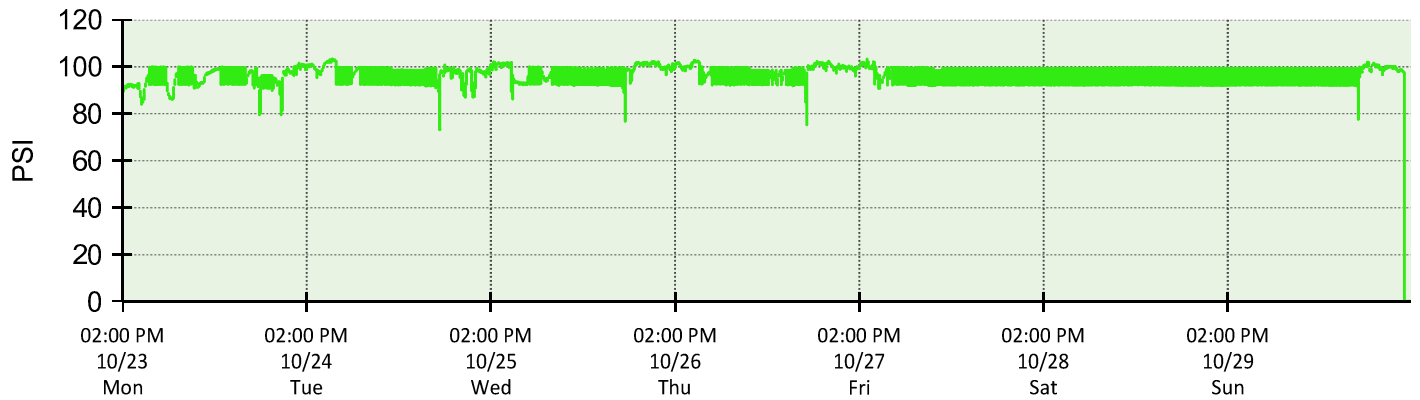


Sullair Model ES11 Detail Page

Compressor Information		Ratings		Performance Summary	
Name	Sullair Model ES11	Rated Package Power	46.4 kW	Average Power	34.3 kW / 46 HP
Manufacturer	Sullair	Rated Full Load Flow	224 ACFM	Average Flow	117.9 SCFM
Model	ES11-50L	Rated Pressure	100 Psig	Average Pressure	95.8 Psig
Single Stage Lubricated Rotary Screw		Rated Efficiency	20.7 kW/ 100 ACFM	Measured Efficiency	29.1 kW/ 100 SCFM
Control Type	Inlet Modulation With Blow Down	Rated Unload Power	11.3 kW	% Loaded Flow	52.6%
Stages of Compression	1	Rated Unload Percent	24.3%	% Loaded Power	73.9%
Nominal Power	50 HP	Standard Rated Conditions	14.5 psia/ 68 °F/ 0% RH	% Run Time	77.4%
Main Motor Efficiency	95%	Rated Flow at Site Conditions	220.6 SCFM	Annual Operating Hours	6,762
Fan/Oil Pump/Aux/Power	1.5 HP	Rated Power at Site Conditions	46.3 kW	Annual kWh	231,929 kWh
Fan/Aux Motor Efficiency	87.5%	Rated Efficiency at Site Conditions	20.7 kW/ 100 ACFM	Annual Cost	\$18,554

Sullair Model ES11 Performance Detail

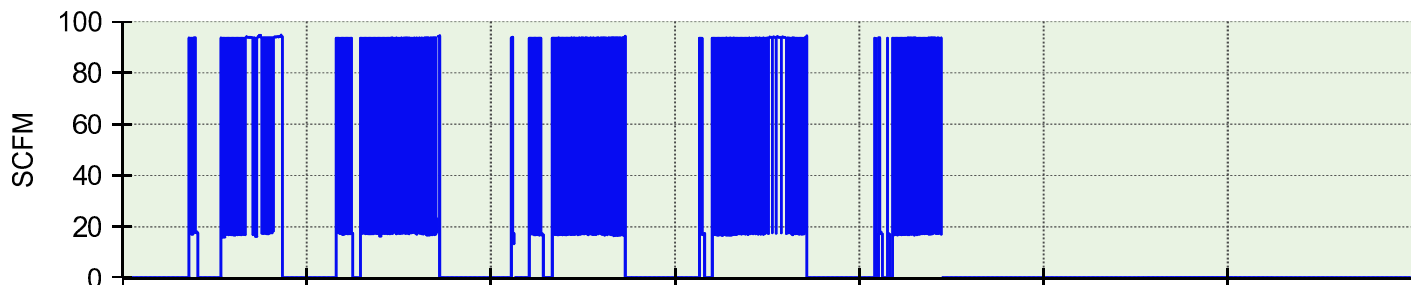


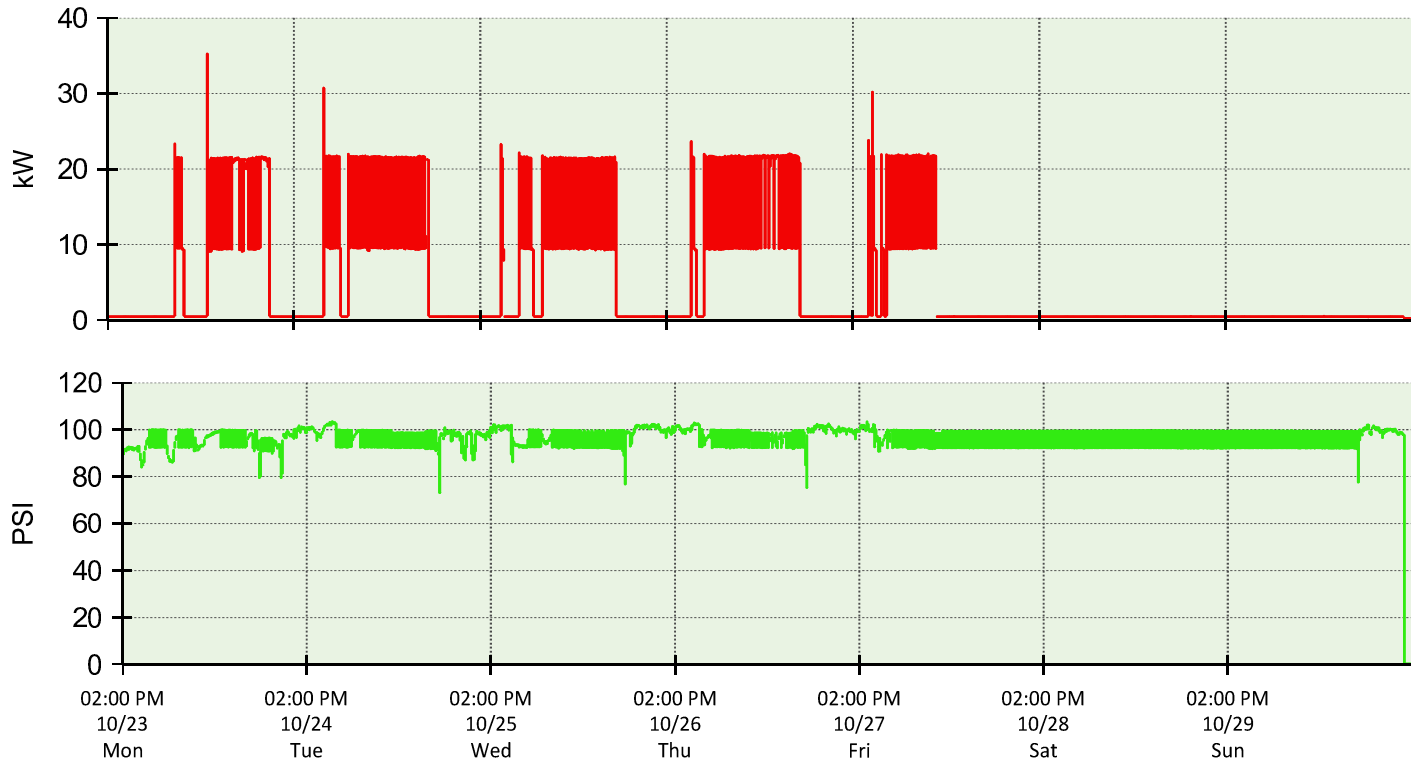


Sullair Model ES8 Detail Page

Compressor Information		Ratings		Performance Summary	
Name	Sullair Model ES8	Rated Package Power	23.4 kW	Average Power	14.8 kW / 19.9 HP
Manufacturer	Sullair	Rated Full Load Flow	94 ACFM	Average Flow	50.8 SCFM
Model	ES8-25H	Rated Pressure	125 Psig	Average Pressure	95.9 Psig
Single Stage Lubricated Rotary Screw		Rated Efficiency	24.9 kW/ 100 ACFM	Measured Efficiency	29.2 kW/ 100 SCFM
Control Type	Inlet Modulation With Blow Down	Rated Unload Power	3.8 kW	% Loaded Flow	54%
Stages of Compression	1	Rated Unload Percent	16.1%	% Loaded Power	63.4%
Nominal Power	25 HP	Standard Rated Conditions	14.5 psia/ 68 °F/ 0% RH	% Run Time	32.1%
Main Motor Efficiency	93%	Rated Flow at Site Conditions	92.6 SCFM	Annual Operating Hours	2,804
Fan/Oil Pump/Aux/Power	0 HP	Rated Power at Site Conditions	23.3 kW	Annual kWh	41,633 kWh
Fan/Aux Motor Efficiency	100%	Rated Efficiency at Site Conditions	24.9 kW/ 100 ACFM	Annual Cost	\$3,331

Sullair Model ES8 Performance Detail

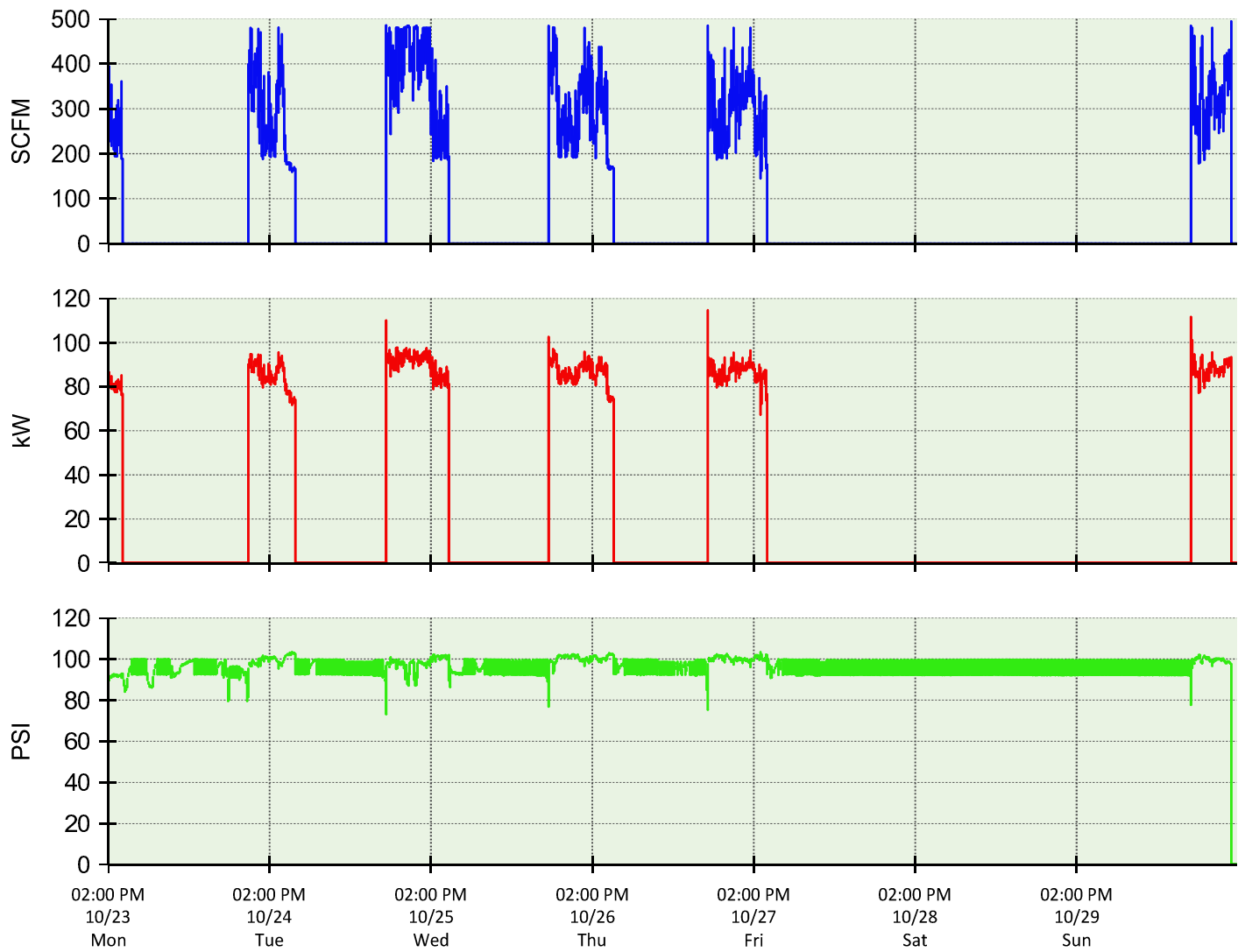




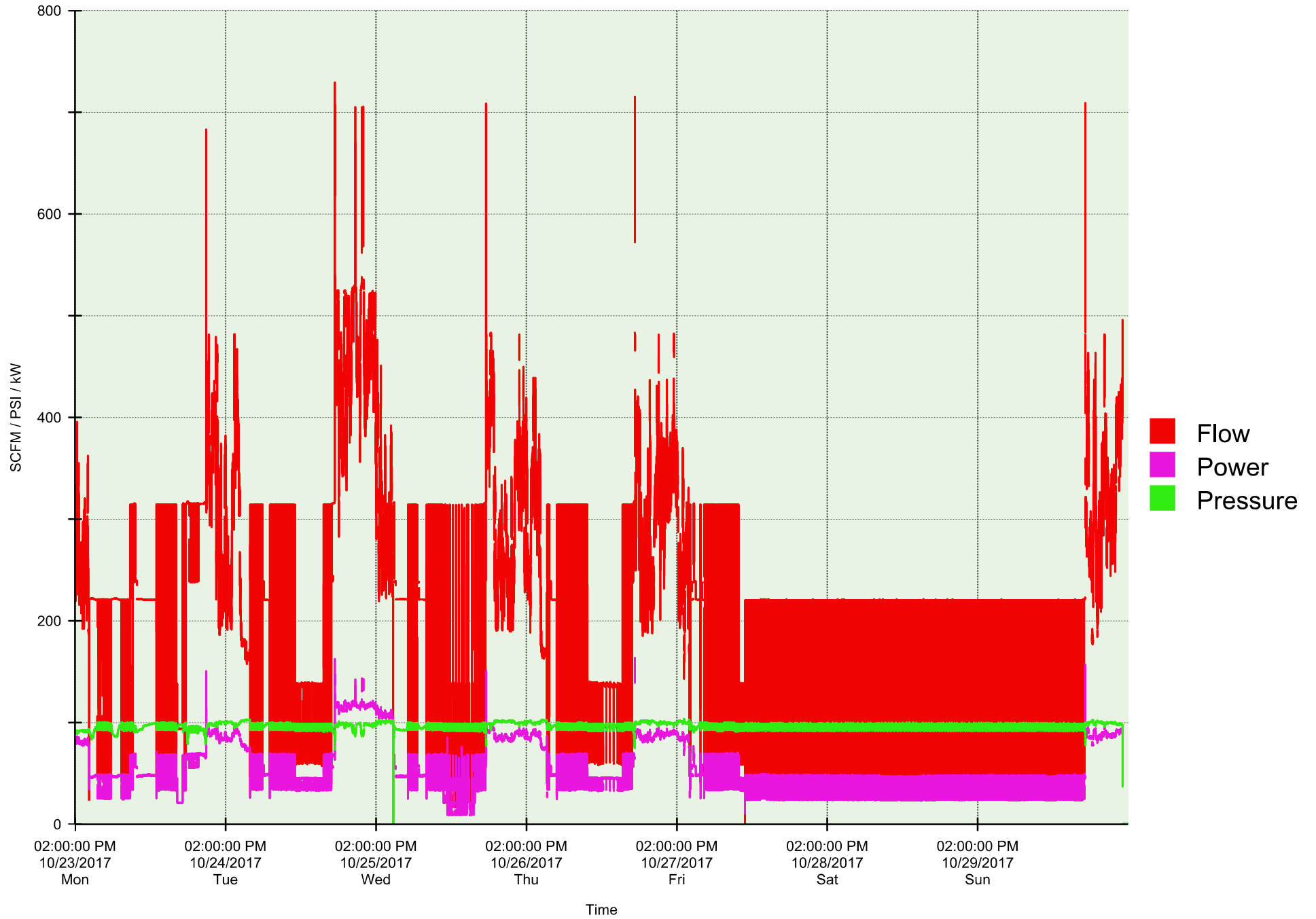
Quincy Model QSI Detail Page

Compressor Information		Ratings		Performance Summary	
Name	Quincy Model QSI	Rated Package Power	97.7 kW	Average Power	87 kW / 116.6 HP
Manufacturer	Quincy	Rated Full Load Flow	489 ACFM	Average Flow	314.9 SCFM
Model	QSI-490	Rated Pressure	100 Psig	Average Pressure	99.2 Psig
Single Stage Lubricated Rotary Screw		Rated Efficiency	20 kW/ 100 ACFM	Measured Efficiency	27.6 kW/ 100 SCFM
Control Type	Inlet Modulation With Blow Down	Rated Unload Power	23 kW	% Loaded Flow	64.4%
Stages of Compression	1	Rated Unload Percent	23.6%	% Loaded Power	89%
Nominal Power	100 HP	Standard Rated Conditions	14.5 psia/ 68 °F/ 0% RH	% Run Time	25.5%
Main Motor Efficiency	91.7%	Rated Flow at Site Conditions	481.7 SCFM	Annual Operating Hours	2,231
Fan/Oil Pump/Aux/Power	5 HP	Rated Power at Site Conditions	97.4 kW	Annual kWh	194,067 kWh
Fan/Aux Motor Efficiency	89.5%	Rated Efficiency at Site Conditions	20 kW/ 100 ACFM	Annual Cost	\$15,525

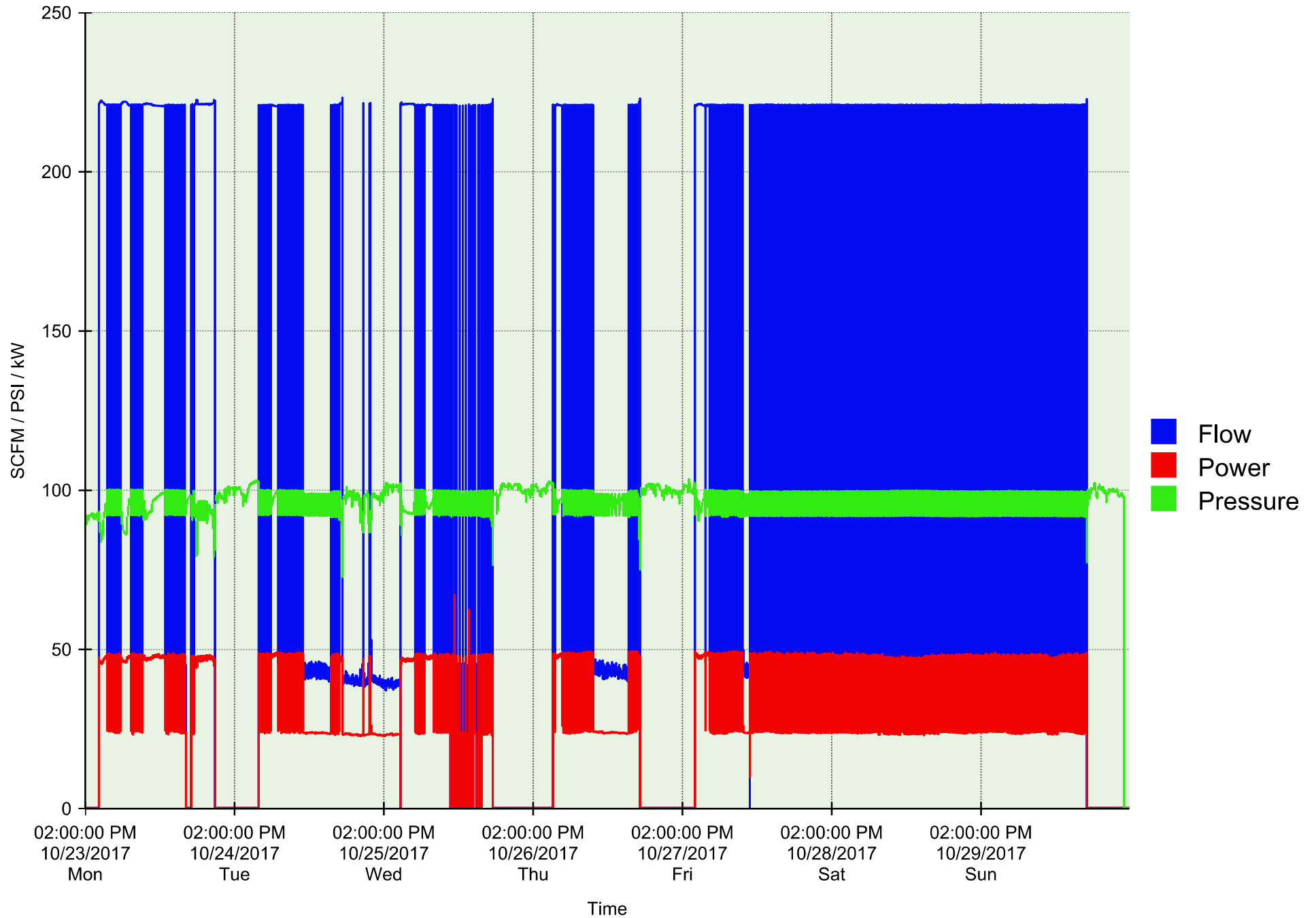
Quincy Model QSI Performance Detail



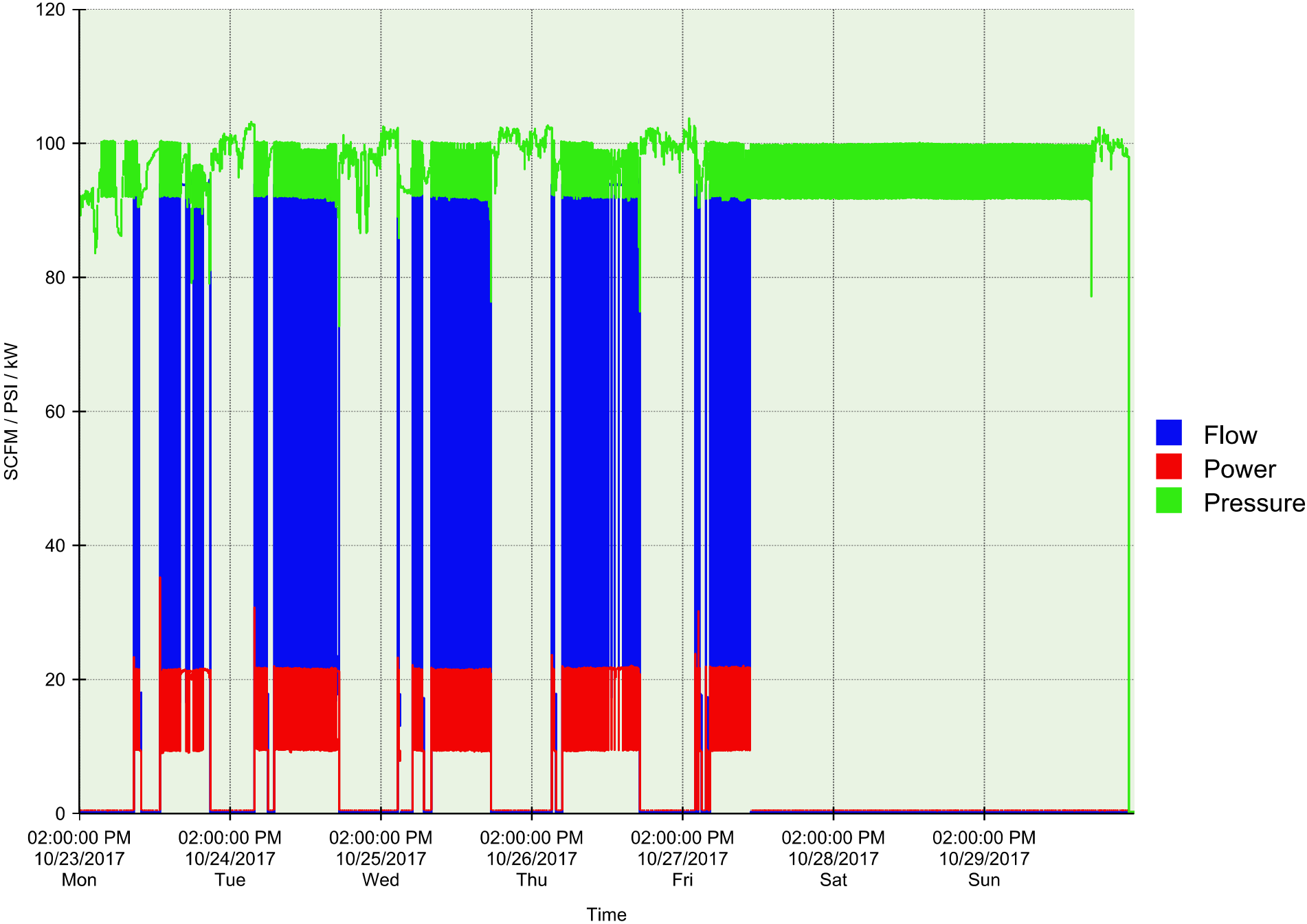
System Summary



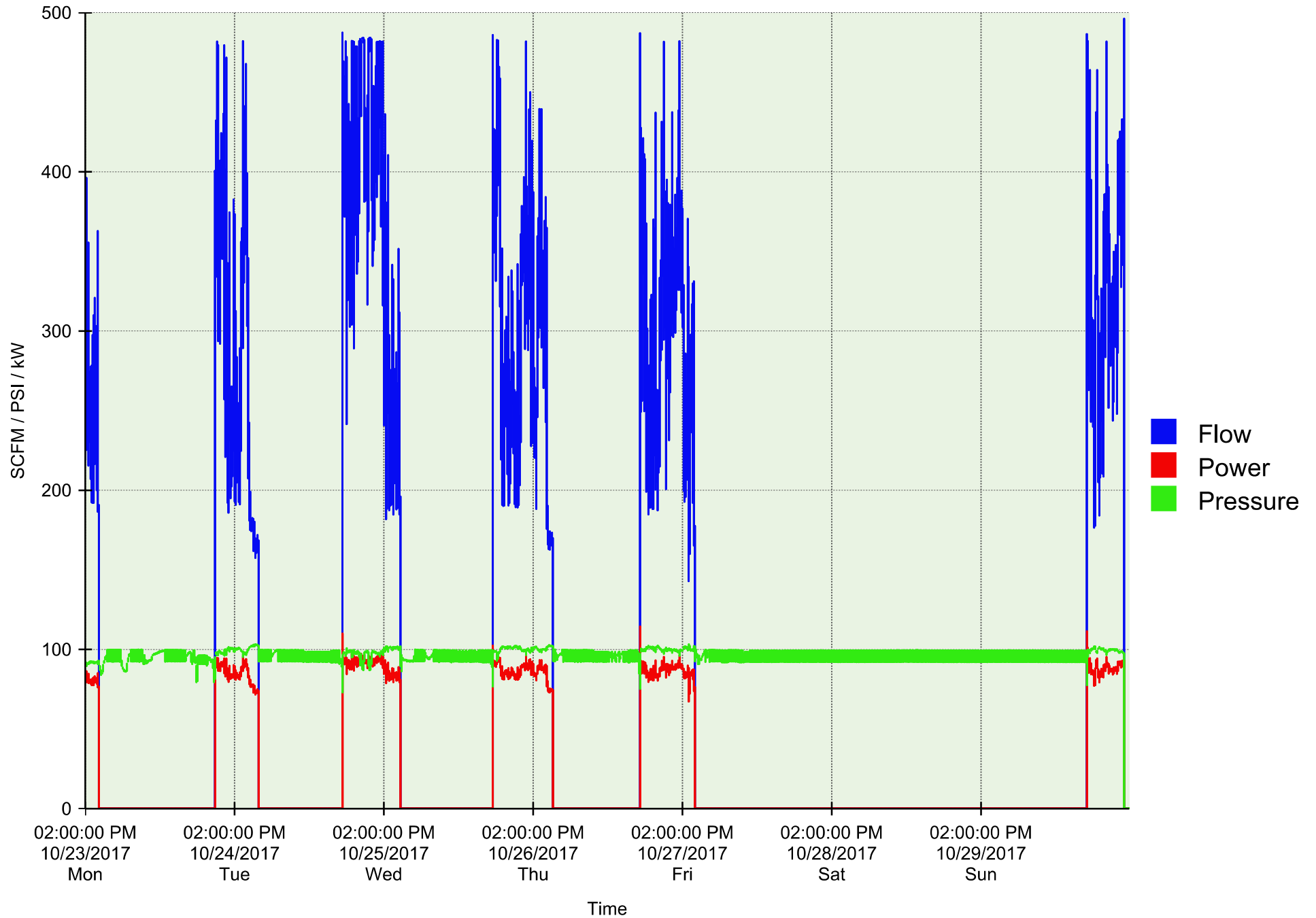
Compressor Summary - Sullair Model ES11



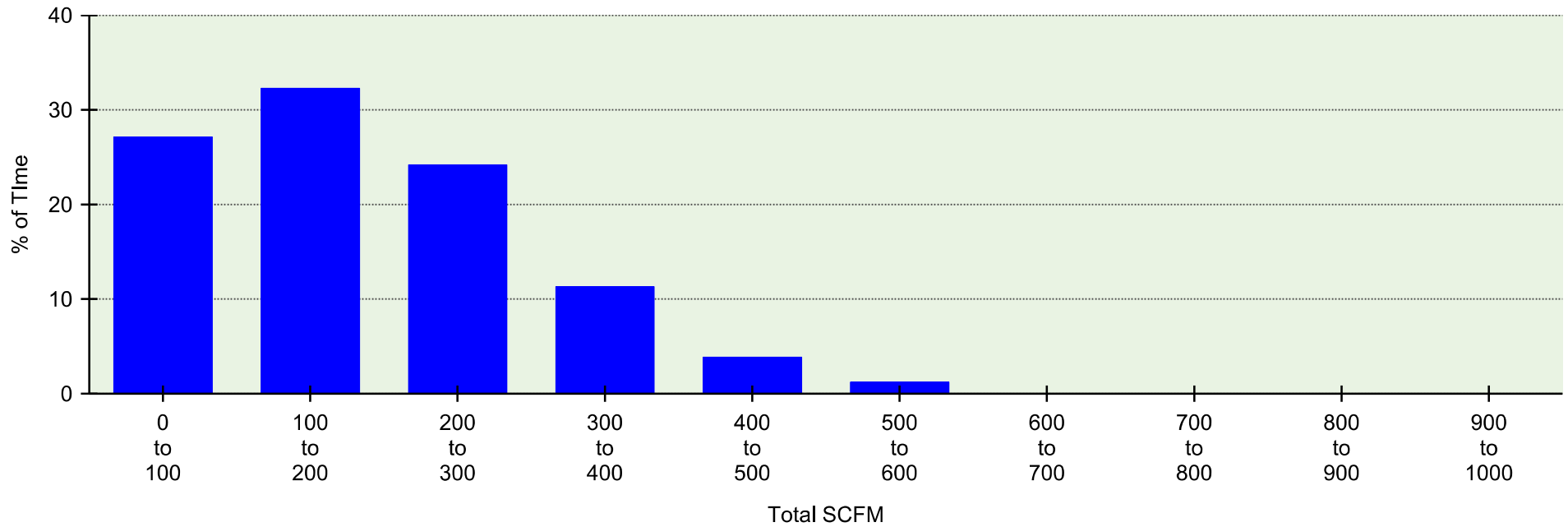
Compressor Summary - Sullair Model ES8



Compressor Summary - Quincy Model QSI

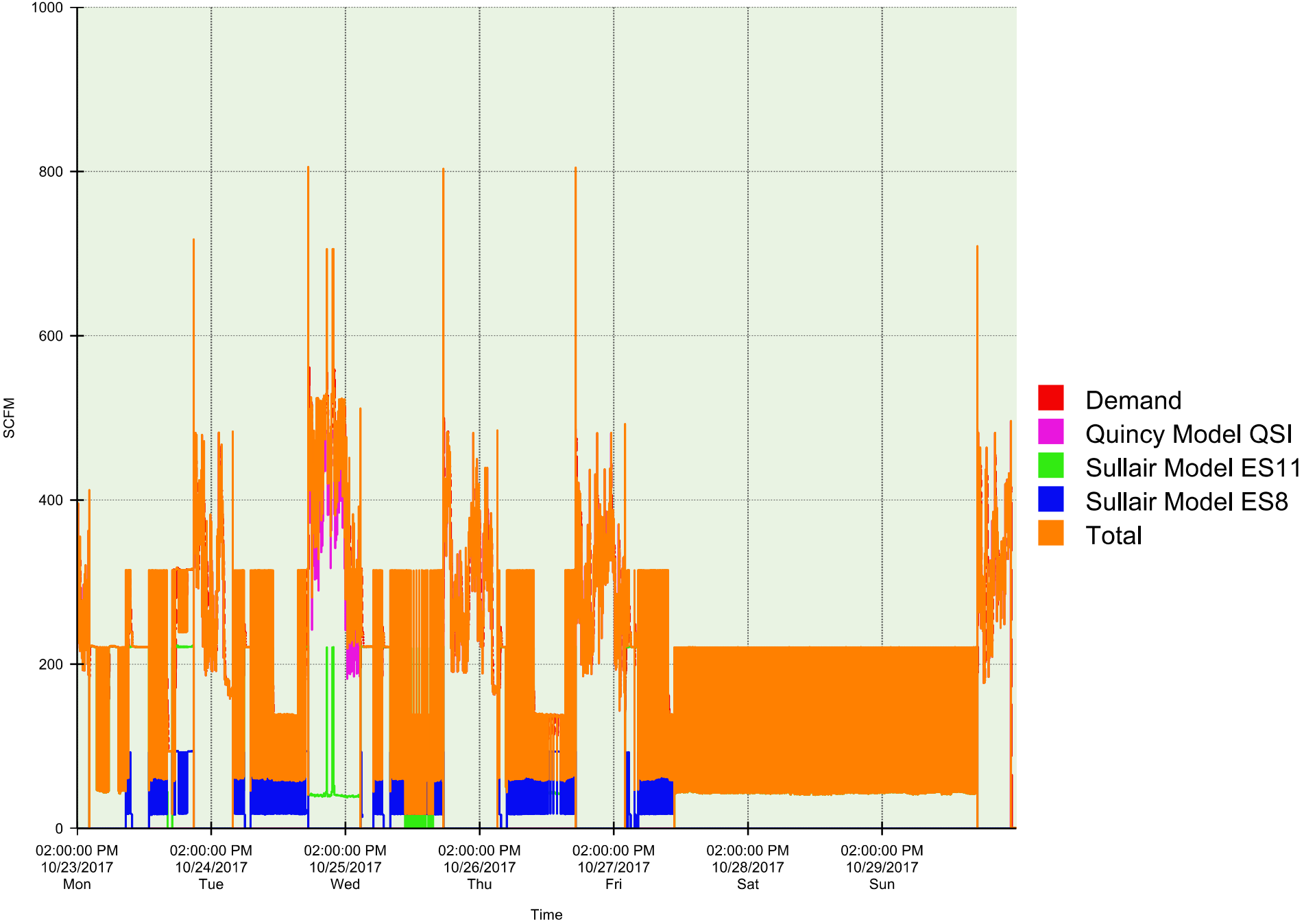


Flow Distribution

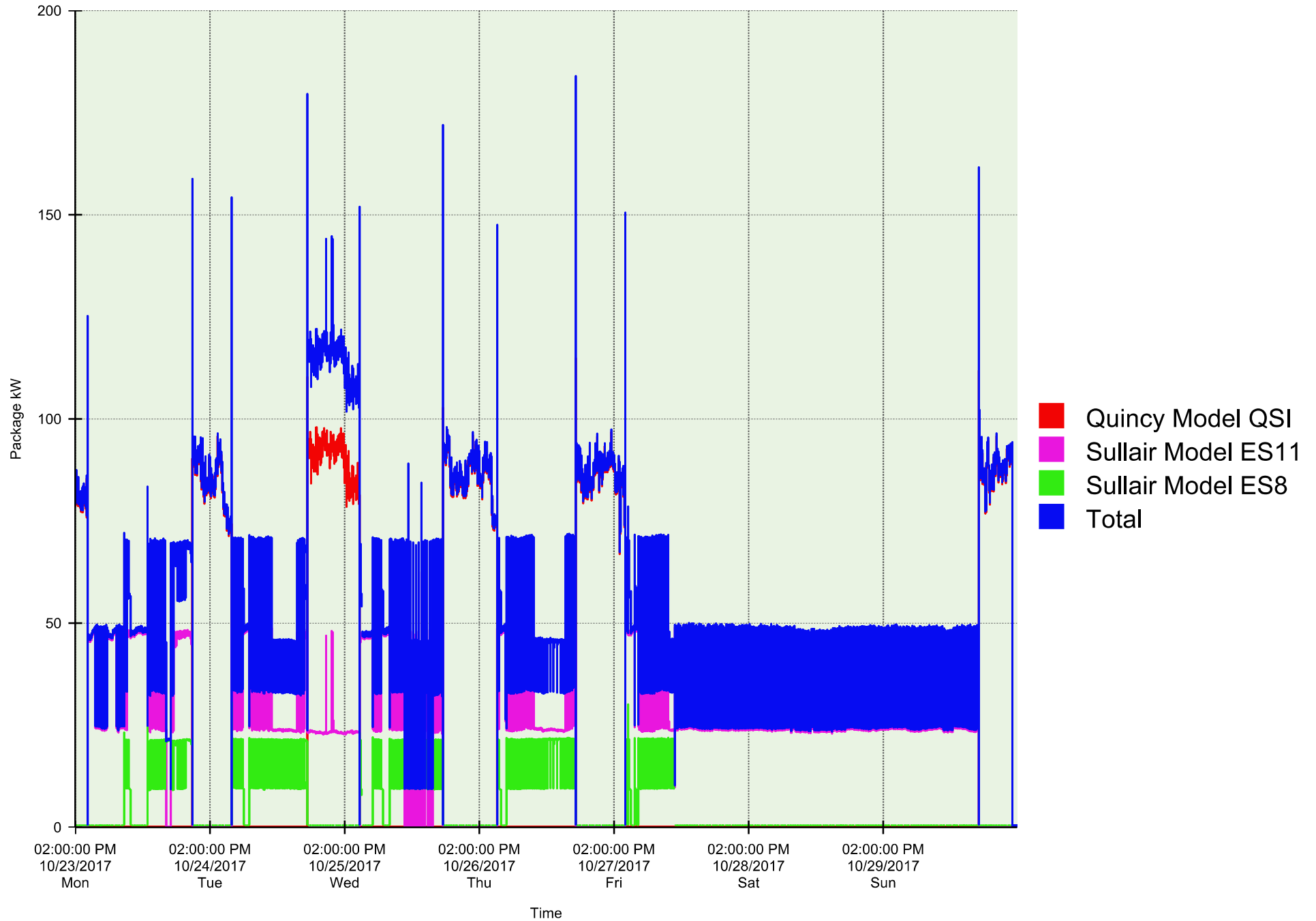




SCFM	Average	Percentage	Hrs/Week	Cumulative %
0-100		27.14		
100-200		32.29		
200-300		24.18		
300-400		11.32		
400-500		3.85		
500-600		1.21		
600-700		0.00		
700-800		0.00		
800-900		0.00		
900-1000		0.00		

Flow Summary

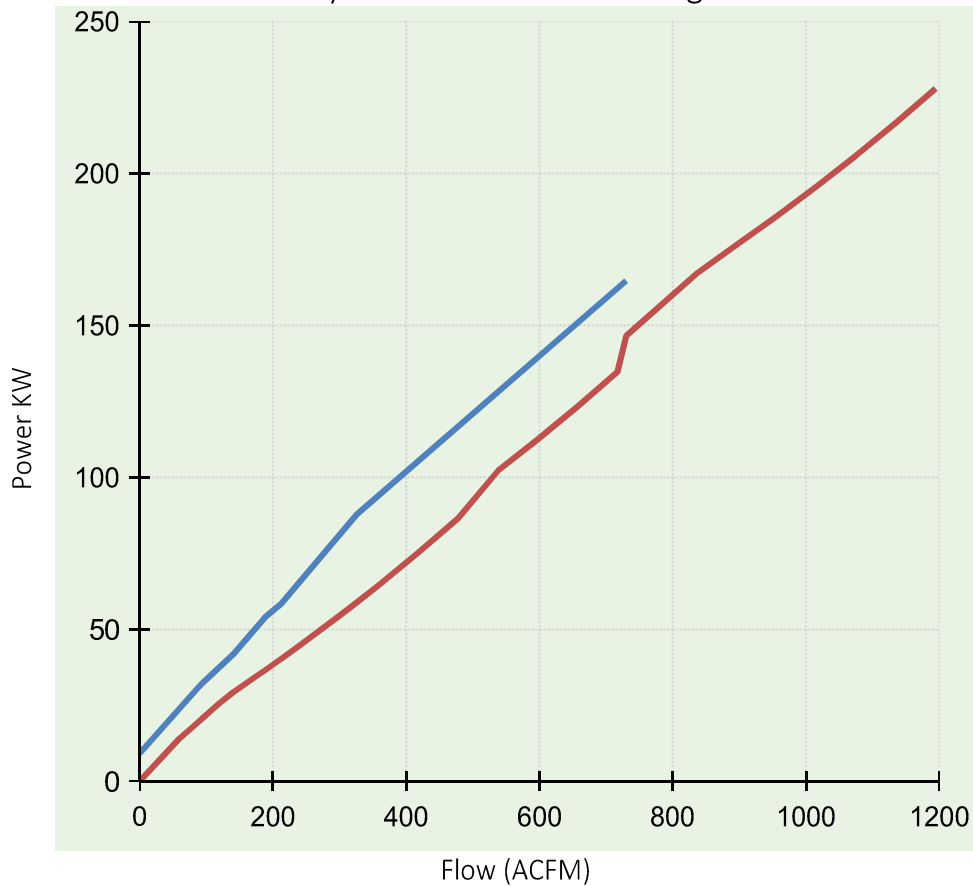


Power Summary



System Performance Range Comparison								
System Name	Simulation Type	Control Type/Sequencing	Total Nominal Power	Total Rated kW	Total Rated Flow	Average Pressure	Rated Efficiency kw/100 CFM	System Volume
 Audit System	Actual	Measured/NA	700 HP	670.3 kW	3,228.0 ACFM	96.6 psig	20.77	500 gal.
 Proposed 100HP VSD	Simulated	Selected Trim	250 HP	237.1 kW	1,212.8 ACFM	96.6 psig	19.55	500 gal.

System Performance Range



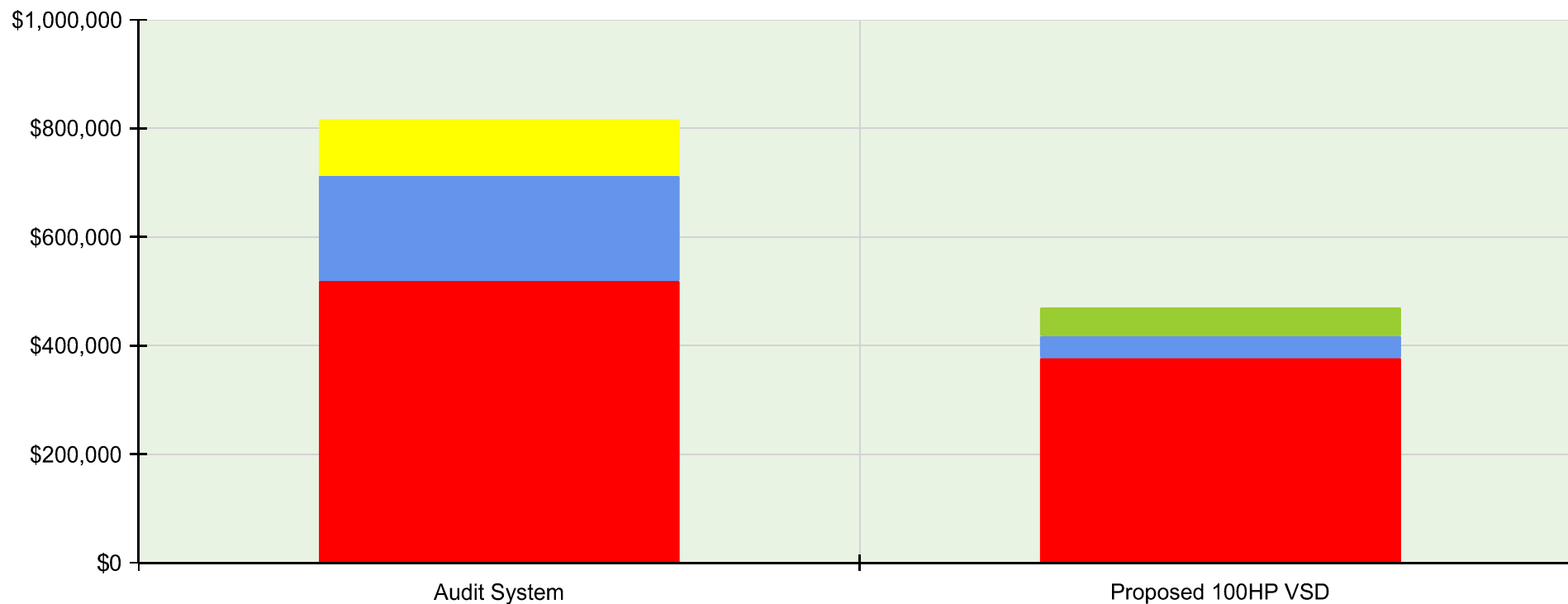
Flow	Audit System (KW)	Proposed 100HP VSD (KW)
0	9.12	0.00
60		14.11
88	30.80	19.47
95	32.50	20.87
119		25.53
142	42.00	29.49
179		35.16
189	54.14	36.67
213	58.40	40.31
239		44.54
299		54.34
326	87.80	58.90
358		64.39
418		75.20
478		86.50
538		102.20
597		112.41
657		123.27
717		134.65
730	164.72	146.54
776		155.38
836		167.00
896		176.51
956		185.91
1,015		195.57
1,075		205.82
1,135		216.63
1,195		227.87

* Existing System Measured data represents Minimum, Average and Maximum measured points.

System Comparison Summary

System Name	Data Type*	Annual kWh	Annual Cost**	Investment**	Annual Savings	Total Lifecycle Cost (10 Years)	Simple Payback
Audit System	Actual	470,453	\$81,633	\$0	N/A	\$816,333	N/A
Proposed 100HP VSD	Simulated	323,139	\$41,772	\$52,280	\$39,861	\$470,001	1.3
*Act. = Actual Measured Data Sim. = Simulated Demand data from actual measured data Est. = Manually estimated Shift entries							
**Annual Cost includes energy and demand cost, maintenance and other ongoing annual costs Investment includes one time purchase, installation and other costs							

Life Cycle Cost Comparison (10 Years)



Actual= 470,453 kWh annually

Proposed=323,139 kWh annually

SAVINGS=147,314 KWH

■ One Time Costs
 ■ Other Annual Costs
 ■ Maintenance Cost
 ■ Energy Cost

System Comparison Detail

System Name	System Ratings			Performance Summary					
	Total Flow	Nominal Power / Rated kW	Rated Full Load Efficiency	Average Estimated Efficiency	Energy Cost (incl. Demand)	Maintenance Cost	Other Annual Cost	One Time Cost*	Total Lifecycle Cost (10 Years)
Audit System	3228 ACFM	700 HP / 670 kW	20.8 kW / 100 CFM	28.6 kW / 100 CFM	\$51,905	\$19,320	\$10,408	\$0	\$816,333
Proposed 100HP VSD	1213 ACFM	250 HP / 237 kW	19.5 kW / 100 CFM	19.7 kW / 100 CFM	\$37,740	\$4,033	\$0	\$52,280	\$470,001

*One Time Costs includes Purchase Costs, Intallation Costs, and other initial non-repeting costs.

NOTE: from table on Page 2, avg use is 189 cubic ft per hr

Actual=(28.6x(189/100))=54.05 KW avg use

Proposed=(19.7x(189/100))=37.23 KW avg use

SAVINGS=16.8 KW or 17KW as rounded whole number

Mercantile Customer Project Commitment Agreement
Cash Rebate Option

THIS MERCANTILE CUSTOMER PROJECT COMMITMENT AGREEMENT ("Agreement") is made and entered into by and between The Toledo Edison Company, its successors and assigns (hereinafter called the "Company") and The Electro Prime Group LLC, Taxpayer ID No. 06-1748533 its permitted successors and assigns (hereinafter called the "Customer") (collectively the "Parties" or individually the "Party") and is effective on the date last executed by the Parties as indicated below.

WITNESSETH

WHEREAS, the Company is an electric distribution utility and electric light company, as both of these terms are defined in R.C. § 4928.01(A); and

WHEREAS, Customer is a mercantile customer, as that term is defined in R.C. § 4928.01(A)(19), doing business within the Company's certified service territory; and

WHEREAS, R.C. § 4928.66 (the "Statute") requires the Company to meet certain energy efficiency and peak demand reduction ("EE&PDR") benchmarks; and

WHEREAS, when complying with certain EE&PDR benchmarks the Company may include the effects of mercantile customer-sited EE&PDR projects; and

WHEREAS, Customer has certain customer-sited demand reduction, demand response, or energy efficiency project(s) as set forth in attached Exhibit I (the "Customer Energy Project(s)") that it desires to commit to the Company for integration into the Company's Energy Efficiency & Peak Demand Reduction Program Portfolio Plan ("Company Plan") that the Company will implement in order to comply with the Statute; and

WHEREAS, the Customer, pursuant to the Public Utilities Commission of Ohio's ("Commission") September 15, 2010 Order in Case No. 10-834-EL-EEC, desires to pursue a cash rebate of some of the costs pertaining to its Customer Energy Project(s) ("Cash Rebate") and is committing the Customer Energy Project(s) as a result of such incentive.

WHEREAS, Customer's decision to commit its Customer Energy Project(s) to the Company for inclusion in the Company Plan has been reasonably encouraged by the possibility of a Cash Rebate.

WHEREAS, in consideration of, and upon receipt of, said cash rebate, Customer will commit the Customer Energy Project(s) to the Company and will comply with all other terms and conditions set forth herein.

NOW THEREFORE, in consideration of the mutual promises set forth herein, and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties, intending to be legally bound, do hereby agree as follows:

- I. **Customer Energy Projects.** Customer hereby commits to the Company and Company accepts for integration into the Company Plan the Customer Energy Project(s) set forth on attached Exhibit I. Said commitment shall be for the life of the Customer Energy Project(s). Company will incorporate said project(s) into the Company Plan to the extent that such projects qualify. In so committing, and as evidenced by the affidavit attached hereto as Exhibit A, Customer acknowledges that the information provided to the Company about the Customer Energy Project(s) is true and accurate to the best of its knowledge.
 - a. By committing the Customer Energy Project(s) to the Company, Customer acknowledges and agrees that the Company shall control the use of the kWh and kW reductions resulting from

said projects for purposes of complying with the Statute. By committing the Customer Energy Project(s), Customer has the ability to either:

- i. Take ownership of the Energy Efficiency resource credits resulting from their Customer Energy Project(s) and may be able to bid - or sell - the Energy Efficiency resource credits into the market operated by the grid operator, PJM Interconnection, Inc. (PJM), provided several prerequisites are met; or
- ii. Allow the Company to take ownership of the Energy Efficiency resource credits associated with their Customer Energy Project(s). The Company shall, at its sole discretion, aggregate said capacity into the PJM market through an auction. Any proceeds from any such bids accepted by PJM will be used to offset the costs charged to the Customer and other of the Company's customers for compliance with state mandated energy efficiency and/or peak demand requirements.

Please indicate your preference as to the treatment of your Energy Efficiency resource credits:

☐ Customer would like to retain ownership of its Energy Efficiency resource credits.

☒ Customer assigns ownership of its Energy Efficiency resource credits to Company for purposes of bidding these credits into PJM.

- b. The Company acknowledges that some of Customer's Energy Projects contemplated in this paragraph may have been performed under certain other federal and/or state programs in which certain parameters are required to be maintained in order to retain preferential financing or other government benefits (individually and collectively, as appropriate, "Benefits"). In the event that the use of any such project by the Company in any way affects such Benefits, and upon written request from the Customer, Company will release said Customer's Energy Project(s) to the extent necessary for Customer to meet the prerequisites for such Benefits. Customer acknowledges that such release (i) may affect Customer's cash rebate discussed in Article 3 below; and (ii) will not affect any of Customer's other requirements or obligations.
 - c. Any future Customer Energy Project(s) committed by Customer shall be subject to a separate application and, upon approval by the Commission, said projects shall become part of this Agreement.
 - d. Customer will provide Company or Company's agent(s) with reasonable assistance in the preparation of the Commission's standard joint application for approval of this Agreement ("Joint Application") that will be filed with the Commission, with such Joint Application being consistent with then current Commission requirements.
 - e. Upon written request and reasonable advance notice, Customer will grant employees or authorized agents of either the Company or the Commission reasonable, pre-arranged access to the Customer Energy Project(s) for purposes of measuring and verifying energy savings and/or peak demand reductions resulting from the Customer Energy Project(s). It is expressly agreed that consultants of either the Company or the Commission are their respective authorized agents.
2. **Joint Application to the Commission.** The Parties will submit the Joint Application using the Commission's standard "Application to Commit Energy Efficiency/Peak Demand Reduction Programs" ("Joint Application") in which they will seek the Commission's approval of (i) this Agreement; (ii) the commitment of the Customer Energy Project(s) for inclusion in the Company Plan; and (iii) the Customer's Cash Rebate.

The Joint Application shall include all information as set forth in the Commission's standard form which, includes without limitation:

- i. A narrative description of the Customer Energy Project(s), including but not limited to, make, model and year of any installed and/or replaced equipment;
- ii. A copy of this Agreement; and
- iii. A description of all methodologies, protocols, and practices used or proposed to be used in measuring and verifying program results.

3. **Customer Cash Rebate.** Upon Commission approval of the Joint Application, Customer shall provide Company with a W-9 tax form, which shall at a minimum include Customer's tax identification number. Within the greater of 90 days of the Commission's approval of the Joint Application or the completion of the Customer Energy Project, the Company will issue to the Customer the Cash Rebate in the amount set forth in the Commission's Finding and Order approving the Joint Application.

- a. Customer acknowledges: i) that the Company will cap the Cash Rebate at the lesser of 50% of Customer Energy Project(s) costs or \$250,000¹, ii) if the Customer Energy Project qualifies for a rebate program approved by the Commission and offered by the Company, Customer may still elect to file such project under the Company's mercantile customer self direct program, however the Cash Rebate that will be paid shall be discounted by 25%; and
- b. Customer acknowledges that breaches of this Agreement, include, but are not limited to:
 - i. Customer's failure to comply with the terms and conditions set forth in the Agreement, or its equivalent, within a reasonable period of time after receipt of written notice of such non-compliance;
 - ii. Customer knowingly falsifying any documents provided to the Company or the Commission in connection with this Agreement or the Joint Application.
- c. In the event of a breach of this Agreement by the Customer, Customer agrees and acknowledges that it will repay to the Company, within 90 days of receipt of written notice of said breach, the full amount of the Cash Rebate paid under this Agreement. This remedy is in addition to any and all other remedies available to the Company by law or equity.

4. **Termination of Agreement.** This Agreement shall automatically terminate:

- a. If the Commission fails to approve the Joint Agreement;
- b. Upon order of the Commission; or
- c. At the end of the life of the last Customer Energy Project subject to this Agreement.

Customer shall also have an option to terminate this Agreement should the Commission not approve the Customer's Cash Rebate, provided that Customer provides the Company with written notice of such termination within ten days of either the Commission issuing a final appealable order or the Ohio Supreme Court issuing its opinion should the matter be appealed.

¹Combined Heat & Power (CHP) projects are not subject to the \$250,000 rebate cap.

5. **Confidentiality.** Each Party shall hold in confidence and not release or disclose to any person any document or information furnished by the other Party in connection with this Agreement that is designated as confidential and proprietary ("Confidential Information"), unless: (i) compelled to disclose such document or information by judicial, regulatory or administrative process or other provisions of law; (ii) such document or information is generally available to the public; or (iii) such document or information was available to the receiving Party on a non-confidential basis at the time of disclosure.
- a. Notwithstanding the above, a Party may disclose to its employees, directors, attorneys, consultants and agents all documents and information furnished by the other Party in connection with this Agreement, provided that such employees, directors, attorneys, consultants and agents have been advised of the confidential nature of this information and through such disclosure are deemed to be bound by the terms set forth herein.
 - b. A Party receiving such Confidential Information shall protect it with the same standard of care as its own confidential or proprietary information.
 - c. A Party receiving notice or otherwise concluding that Confidential Information furnished by the other Party in connection with this Agreement is being sought under any provision of law, to the extent it is permitted to do so under any applicable law, shall endeavor to: (i) promptly notify the other Party; and (ii) use reasonable efforts in cooperation with the other Party to seek confidential treatment of such Confidential Information, including without limitation, the filing of such information under a valid protective order.
 - d. By executing this Agreement, Customer hereby acknowledges and agrees that Company may disclose to the Commission or its Staff any and all Customer information, including Confidential Information, related to a Customer Energy Project, provided that Company uses reasonable efforts to seek confidential treatment of the same.
6. **Taxes.** Customer shall be responsible for all tax consequences (if any) arising from the payment of the Cash Rebate.
7. **Notices.** Unless otherwise stated herein, all notices, demands or requests required or permitted under this Agreement must be in writing and must be delivered or sent by overnight express mail, courier service, electronic mail or facsimile transmission addressed as follows:

If to the Company:

FirstEnergy Service Company
76 South Main Street
Akron, OH 44308
Attn: Mercantile Energy Efficiency Program A-GO-8
Telephone: 330 384 4504
Fax: 330 777 6051
Email: mercantile@firstenergycorp.com

If to the Customer:

The Electro Prime Group LLC
63 Dixie Hwy
Rossford, OH 43460
Attn: Bruce Church
Telephone: 419-666-5000
Fax:
Email: bruce.church@electroprime.com

or to such other person at such other address as a Party may designate by like notice to the other Party. Notice received after the close of the business day will be deemed received on the next business day; provided that notice by facsimile transmission will be deemed to have been received by the recipient if the recipient confirms receipt telephonically or in writing.

8. **Authority to Act.** The Parties represent and warrant that they are represented by counsel in connection with this Agreement, have been fully advised in connection with the execution thereof, have taken all legal and corporate steps necessary to enter into this Agreement, and that the undersigned has the authority to enter into this Agreement, to bind the Parties to all provisions herein and to take the actions required to be performed in fulfillment of the undertakings contained herein.
9. **Non-Waiver.** The delay or failure of either party to assert or enforce in any instance strict performance of any of the terms of this Agreement or to exercise any rights hereunder conferred, shall not be construed as a waiver or relinquishment to any extent of its rights to assert or rely upon such terms or rights at any later time or on any future occasion.
10. **Entire Agreement.** This Agreement, along with related exhibits, and the Company's Rider DSE, or its equivalent, as amended from time to time by the Commission, contains the Parties' entire understanding with respect to the matters addressed herein and there are no verbal or collateral representations, undertakings, or agreements not expressly set forth herein. No change in, addition to, or waiver of the terms of this Agreement shall be binding upon any of the Parties unless the same is set forth in writing and signed by an authorized representative of each of the Parties. In the event of any conflict between Rider DSE or its equivalent and this document, the latter shall prevail.
11. **Assignment.** Customer may not assign any of its rights or obligations under this Agreement without obtaining the prior written consent of the Company, which consent will not be unreasonably withheld. No assignment of this Agreement will relieve the assigning Party of any of its obligations under this Agreement until such obligations have been assumed by the assignee and all necessary consents have been obtained.
12. **Severability.** If any portion of this Agreement is held invalid, the Parties agree that such invalidity shall not affect the validity of the remaining portions of this Agreement, and the Parties further agree to substitute for the invalid portion a valid provision that most closely approximates the economic effect and intent of the invalid provision.
13. **Governing Law.** This Agreement shall be governed by the laws and regulations of the State of Ohio, without regard to its conflict of law provisions.
14. **Execution and Counterparts.** This Agreement may be executed in multiple counterparts, which taken together shall constitute an original without the necessity of all parties signing the same page or the same documents, and may be executed by signatures to electronically or telephonically transmitted counterparts in lieu of original printed or photocopied documents. Signatures transmitted by facsimile shall be considered original signatures.

IN WITNESS WHEREOF, the Parties hereto have caused this Agreement to be executed by their duly authorized officers or representatives as of the day and year set forth below.

By: Kurt E. Turosky

Title: Dir, Energy Efficiency Compliance & Reporting

Signed on behalf of The Toledo Edison Company_
(Company)

Date: 9/17/20

The Electro Prime Group LLC

By: [Signature]

Title: Maintenance Manager

Date: August 25, 2020

Affidavit of The Electro Prime Group LLC – Exhibit _A_

STATE OF OHIO)
) SS:
COUNTY OF Wood)

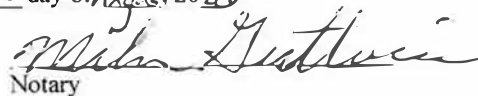
I, Bruce Church, being first duly sworn in accordance with law, deposes and states as follows:

1. I am the Maintenance Manager of The Electro Prime Group LLC (“Customer”) As part of my duties, I oversee energy related matters for the Customer.
2. The Customer has agreed to commit certain energy efficiency projects to The Toledo Edison Company (“Company”), which are the subject of the agreement to which this affidavit is attached (“Project(s)”).
3. In exchange for making such a commitment, the Company has agreed to provide Customer with Cash (“Incentive”). This Incentive was a critical factor in the Customer’s decision to go forward with the Project(s) and to commit the Project(s) to the Company.
4. All information related to said Project(s) that has been submitted to the Company is true and accurate to the best of my knowledge.

FURTHER AFFIANT SAYETH NAUGHT.



Sworn to before me and subscribed in my presence this 24 day of August, 2020


Notary

MICHAEL GUTHRIE
Notary Public, State of Ohio
My Commission Expires 05-25-2022



This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

9/23/2020 3:55:03 PM

in

Case No(s). 20-1359-EL-EEC

Summary: Application to Commit Energy Efficiency/Peak Demand Reduction Programs of The Toledo Edison Company and The Electro Prime Group LLC electronically filed by Ms. Jennifer M. Sybyl on behalf of The Toledo Edison Company and The Electro Prime Group LLC