Joseph

Firrantello

Mechanical Option

Laboratory Cool Thermal Storage

Spring 2004

	Laboratory Radil	i +
	Laboratory Facil Eastern PA Building Shell Construction: L MEP/Interior Space Fit-Out: Int Architect: Cathers and Associat Structural Engineer: Haynes W	iberty Property Trust egrated Project Services (IPS) tes, Inc.
Joseph Firrantello HVAC/	<ul> <li>Size: 75,392 sf</li> <li>Max Design Occupancy: 198</li> <li>Start: August 2003</li> <li>Estimated Finish: May 2004</li> </ul>	<ul> <li>Height: 31' 4", 1 story &amp; service catwalk in plenum</li> <li>Design-Build contract for all MEP, lighting, and general interior fit-out</li> </ul>
Mechanical General Construction Mechanical Electrical Structural	<ul> <li>16 roof top AHUs, from 3890 cfm to 24,700 cfm</li> <li>Air distribution via overhead ductwork</li> <li>Heating accomplished through electric duct heaters, terminal air units, and unit heaters</li> <li>Cooling accomplished through coils on AHUs, 210.1 to 1116.4 MBTUH</li> <li>Office spaces served by VAV system</li> <li>Clean room and lab spaces served by constant volume systems</li> </ul>	<ul> <li>Approximately 1/3 of building is clean room space, class 10,000 and class 10,000</li> <li>High pressure process steam via two gas fired Burnham LN3P-200 boilers, capacity of 6695 MBTUH and 6900 lbs/hr each</li> <li>Process chilled water via one Acme Model AARC – 140 Screw Chiller, nominal capacity 117 tons</li> <li>Lab spaces supplied with nitrogen, carbon dioxide, oxygen, and liquid nitrogen via in-house storage</li> </ul>
	<ul> <li>Utility supplies 480/277V 3φ, 4 Wire + Ground</li> <li>1000kW diesel backup generator, also 480/277V 3φ</li> <li>480/277 3φ 3 Wire panels for fluorescent lighting and mechanical equipment</li> </ul>	<ul> <li>230/120 3φ 3 Wire panels for lab equipment (freezers, centrifuges)</li> <li>208/120 3φ, 4 Wire panels for incandescent bulbs, refrigerators, and small heaters</li> <li>Most space lighting via evenly spaced fluorescent fixtures</li> </ul>
Department of Architectural Engineering The Pennsylvania State University	<ul> <li>Main structural system is steel column, girder, and beam grid.</li> <li>Max span: 40'</li> <li>Floor is concrete slab on grade</li> <li>Steel supports exterior curtain wall of glazing and brick or EIFS</li> </ul>	<ul> <li>Roof supported via open-web chord joists with reinforcement welds for mechanical equipment structural loads</li> <li>Service catwalk in plenum suspended from roof structural system</li> </ul>



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These gentlemen were able to provide operational and pricing information for equipment used in the mechanical and construction management analysis, even though they may not be directly mentioned. The alumni at GRG provided the load/energy analysis program used in the mechanical portion of the thesis.

#### Faculty Members

Dr. Jim Freihaut – Mechanical Faculty Dr. Jelena Srebric – Mechanical Faculty Dr. Stanley Mumma – Mechanical Faculty Dr. William Bahnfleth – Mechanical Faculty Dr. Martin Moeck – Lighting Faculty

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And of course, thanks to Jonathan Dougherty and Professor Parfitt, for staying on our cases and making sure that we got out in one piece.

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I would like to thank the advisors on the industry message boards for the helpful answers they provided.

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#### Last but not Least...

Thanks to my roommates, girlfriend, friends, family, and everyone else who had to put up with me.



# I. Executive Summary

The building being studied is a 74,000 ft<sup>2</sup> biological clean room facility in eastern Pennsylvania. It has class 10,000 and 100,000 clean room space, non-clean lab and storage space, and administrative/office space. The existing mechanical systems are fifteen packaged rooftop air handling units, fourteen of which are included in this study. Of those fourteen, one is a VAV system serving the administrative and office spaces, nine serve clean rooms, and four serve non-clean laboratory and storage space.

The existing mechanical system performs space cooling by direct expansion coils that came with the prepackaged air handling units. While this system has a low first cost, it is possible to reduce the operating cost with a more efficient system. The goal of the redesign was to install a chilled glycol and demand limiting partial ice storage system, thereby reducing energy usage and cost. This system would enable a large portion of the cooling load to be shifted to the off-peak hours, where utility rates are cheaper. Additionally, the utility has a special energy rate (about \$0.35/kWh) for off-peak thermal storage applications.

The redesign has an operating cost of about \$634,000 per year, as opposed to the existing system's cost of \$738,000 per year. Also, the redesign consumes about 7,400,000 kWh per year, in comparison to the existing system's consumption of 7,800,000.

In the lighting portion, an open office space in the administrative section was examined, and found to have a high illuminance incidence on the work spaces (i.e. desks) in the room: 100 foot-candles, compared to the IESNA recommendation of 50 foot-candles for office spaces.

An attempt was made to design a utilitarian splayed well skylight scheme that would save operational cost and improve the character of the room. However, a quick calculation showed relatively low savings per year (about \$100) due to the small amount of hours where day-lighting could be utilized. This is not enough to justify building six skylights through a 22' plenum. Instead, lower power luminaires made for usage with visual display terminals (VDTs) were installed, and ended up giving a fairly uniform distribution of 50 foot-candles on the 2'6" work plane.

The construction management section's aim was to do quick check of site layout and calculate the years required for payback on the mechanical and lighting redesigns.

The site was found to have enough space to support the ice tanks and any other expansion of the mechanical room that may be necessary. The mechanical redesign would take about 12 years to reach equivalence with the existing design, given an interest rate of 6% and an inflation rate of 2.16% (from August 2003, the month where construction started). The lighting redesign would take about 20 years to reach simple payback.

In conclusion, the mechanical system redesign is not recommended. Even though it saves a significant amount of money per year, the time to reach equivalence with the existing design is too large to be palatable to most owners. The lighting redesign, however, is recommended, because the improved illuminance and lighting distribution in the space could have a beneficial impact on the attitude and efficiency of the workers in that space.



# II. Project Background: What is Thesis?

Penn State's Undergraduate Architectural Engineering Thesis is a two-semester long process.

Before the first semester starts, students choose a building to work on. They are responsible for getting all of the design documents, specs, and information necessary to perform engineering analyses on the building systems.

The first semester consists of three of these analyses, where the student becomes familiar the engineering systems in his or her building. At the end of the first semester, the student has outlined a plan for redesigning a part of the building. The student focuses on a "Depth" redesign in his or her option (Mechanical, Structural, Lighting/Electrical, Construction Management), and then has two smaller "Breadth" redesigns in two of the other options.

The second semester consists of research and work on these redesigns. AE faculty and volunteer industry members are at the disposal of students for questions or consultations. The semester culminates in a final report and a presentation made in front of a panel of faculty judges.

In addition, each student maintains an "e-portfolio" web site that is updated continually throughout both semesters.



# **III. Building Background Information**

This section discusses general building system information. System information specific to redesigns will be discussed in the appropriate redesign section.

#### A. General

Note: The building occupant and location cannot be released, as per IPS's confidentiality agreement with the client.

#### 1. Primary Project Team

Liberty Property Trust was in charge of the building shell construction. Integrated Project Services (IPS) was responsible for design, construction, and validation of the facility from the outside wall in. Haynes Whaley Associates performed the structural engineering, and Cathers and Associates were the architects.

#### 2. Basic Information

The one-story facility is approximately 75,000 square feet and is located in eastern Pennsylvania. About 45,000 square feet of conditioned space will be used in the mechanical systems analysis. The remainder of the space is unconditioned, billed for future construction, or part of AHU 15, which was unsuitable to use in the redesign.

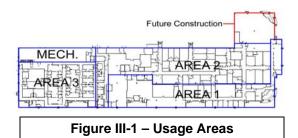
The building was scheduled to be started in August 2003 and finished May 2004.

It's primary purpose is as a biological laboratory/production facility for a private corporation.

#### **B. Architecture**

The building has 3 main usage areas: clean room laboratory, laboratory/storage, and administrative/office. These are outlined respectively as sections 1, 2, and 3 in **Figure III-1**. (see **Appendix III-1** for larger version). It is located on a former military base, and is part of a large civilian occupancy project for the campus.

The building has no architectural features of note, as its primary purpose is utilitarian.



#### C. Electrical System

The building is served by two main distribution panels. The first is sized for 3000A and serves two 208/120V  $3\phi$  and two 480V  $3\phi$  distribution panels. Each of these panels is rated at 800A. The second is also sized for 3000A and serves 3 480/277V  $3\phi$  panels (rated at 2000A, 1200A, and 800A) and 2 208/120V  $3\phi$  panels (rated at 600A each).

There are a total of eleven transformers, ten from 480 to 208/120, and one from 480 to 240. The 240V line is further modified to 230V in order to serve certain laboratory equipment (i.e. centrifuges, freezers, etc). Additionally, there is a 1000kW, 2000A back-up diesel generator tied into the second main distribution panel.



The 480/277 line primarily supplies power to the mechanical equipment and fluorescent lighting, while the 208/120 line serves the electrical outlets, some refrigerators and small heaters, and the few incandescent bulbs.

# D. Lighting

Most of the space lighting is accomplished by fluorescent fixtures running on 277V. Recessed 2x4 T8's (ranging from 70W to 140W) are the primary type of fixture. 2x4's and 1x4's (both exposed and recessed) are used for the mechanical and storage spaces. 2x2's light some of the smaller areas, i.e. vestibules, closets, airlocks. Some HID and incandescent lighting is used in the small lobby area.

Two beads of silicon sealant are applied around the edges of the fixtures in the clean room spaces to prevent contamination. 200W metal halide fixtures light the reception area, and there are a few specialized fixtures for the dark room.

Additionally, a number of the fluorescent ballasts are provided with batteries to act as emergency lighting.

# E. Structural

The main structural system is a steel W-shape grid (columns, girder beams) with a maximum span of 40'. There is nothing truly remarkable about the structural system, as the building is only 1 story, though it is approximately 31'4" tall.

The foundation is concrete slab on grade. The roof is supported by open-web chord joists with reinforcement welds at key points for rooftop mechanical equipment loads. The service catwalk in the 22' building plenum is hung from the roof structural system.

# F. Mechanical

Ventilation and space conditioning is performed by 15 rooftop packaged air-handling units. AHUs 1 through 9 are constant volume systems with terminal reheat that serve clean room spaces. AHUs 11-15 are constant volume systems, also with terminal reheat, that serve non-clean labs, warehouse, and storage space. AHU 10 is a variable air volume system with terminal reheat that serves the administrative and office spaces in the building. Specifics on all of the AHUs can be found in **Appendix III-2**.

AHUs 2, 7, and 14 are 100% outdoor air, and the rest have some fraction of return air mixed with the incoming ventilation air. The supply air rate ranges from 3,890 to 24,700 cfm. All air is run through a 30% and a 90% filter inside each AHU.

The clean room spaces are class 10,000 and class 100,000. These numbers represent the range of numbers of different size particles that are allowed in a space.

Cooling is accomplished through DX coils that are part of the packaged AHUs. Preheat is accomplished by natural gas-fired burners in the AHUs. Reheat and supplemental heating is supplied by electric duct heaters.

Additionally, there is a 117 ton process chiller in the mechanical room, as well as two 6695 MBTUH boilers that supply steam for humidification and process loads.



# **G. Fire Protection**

Approximately 2/3 of the building is classified as Ordinary Hazard 1, and has a heat responsive (165°F) wet pendant system set at 175 psig. The lab/clean room space is classified as Ordinary Hazard 2, and has a similar system. The only variation is in the Freezer Storage room, which has a dry pendant sprinkler system.

Detection is provided by either heat detectors or duct smoke detectors. Fire alarm strobes and horn/strobe combinations are used as an alert system. Information on passive fire protection of structural members is currently unavailable. Spray-on fire proofing (SOFP) is assumed. Fire walls are rated at 1 or 2 hours by Underwriters Laboratory.

# H. Construction Management

Not a lot of information was available on the construction side of the project.

The entire project was driven by first cost considerations, as the client wanted the facility up and running in order for it to start business. Operational cost was deemed a low concern, as utility costs could be passed on to clients.

As mentioned earlier, the project takes place on a large commercial campus, and there is ample room around the site for maneuvering equipment, cranes, etc.



# IV. Mechanical Depth Study

## A. Introduction

This section presents the mechanical depth portion of the redesign. First, pertinent background information on the mechanical system will be established. Then, the concept and goals of the redesign will be introduced. The methodology and results of preliminary studies will be discussed, and then the procedure for the redesign itself will be talked about. The results will be summarized, and a conclusion will be reached.

### B. Background Information

Ventilation and space conditioning is supplied by 15 McQuay RPS rooftop packaged air-handling units. AHUs 1 through 9 are constant volume systems with terminal reheat that serve clean room spaces. AHUs 11-15 are constant volume systems, also with terminal reheat, that serve non-clean labs, warehouse, and storage space. AHU 10 is a variable air volume system with terminal reheat that serves the administrative and office spaces in the building. Specifics on all of the AHUs can be found in **Appendix III-2**.

AHUs 2, 7, and 14 are 100% outdoor air, and the rest have some fraction of return air mixed with the incoming ventilation air. The supply air rate ranges from 3,890 to 24,700 cfm. All air is run through a 30% and a 90% filter inside each AHU.

The clean room spaces are class 10,000 and class 100,000. These numbers delineate the number of different sizes of particles that are allowed in a space.

Cooling is accomplished through DX units that are part of the packaged AHUs. Heating is accomplished by natural gas-fired burners in the AHUs.

#### C. Concept and Goals

The mechanical redesign involves replacing the DX units in the AHUs with a more efficient chilled glycol system, which will be supplied by chillers and ice storage tanks. This new system will be used for demand limiting partial thermal storage, which aims to reduce the amount of energy spent during a utility's peak period.

The redesign will be successful if the redesign (a) saves energy and (b) saves money.

The main part of the analysis will be done with Trane's TRACE load and energy calculation software. Other software and methodology will be explained with the associated information.

#### **D. Preliminary Studies**

#### 1. Justification of Methodology and Baseline Results

Trane's TRACE multi-zone load and energy calculation program was used for building simulations. This program models each space as a single, well-mixed zone, and does not take into account real mixing effects that may effect how effective a space's conditioning system is.

The software, however, has enough accuracy to do a reasonable model of whole building load and energy use. It uses TETD-TA1 methodology for its calculations, which is listed as a conservative calculation method in the program's documentation.



Data such as fan pressure, required outdoor air, room area etc., was taken directly from information on the design documents. Information on process load heat gain was received from the design manager. Occupancy was taken from architectural plans when possible, and estimated when not apparent. The general occupancy for the laboratory spaces was taken at 100  $ft^2$ /person.

Occupancy and lighting schedules were approximated as what one would expect for a typical office building, i.e. 100% occupation during the day, slight occupation after the work day has ended, and empty at night. However, lab equipment energy consumption was only reduced to 50% load at night to reflect that fact that laboratory equipment (i.e. refrigerators, centrifuges, etc.) may remain on overnight.

Sizing data for the building thermal loads can be found in **Appendix IV-1**.

# 2. Baseline Results

Table IV-1 - Yearly Economic Summary					
Utility Peak Demand Consumption Yearly Cos			Yearly Cost	\$/ Con	sumption Unit
Eletric	1387 kW	7,816,331 kWh	\$726,501.00	\$	0.093
Gas	Sas 24 therms/h 59,684 therms		\$ 11,708.00	\$	0.196
		Total \$/year	\$738,209.00		

The breakdown of cost and use by month is available in **Appendix IV-2** 

The operating cost was calculated using the PECO General Service Rate and Philadelphia Gas Works Interruptible Tariff (see **Appendix IV-3**).

The operating cost may seem like a large number at first, but a study (Mills, et. al., 1996) done on California laboratory facilities shows that energy intensities can be 4 to 5 times higher than a normal commercial building, and 10 to 100 times higher in the case of clean rooms.

A quick calculation, taking a "normal" operating cost of \$1.5/ft<sup>2</sup>, shows that the numbers are reasonable. See **Table IV-2**.

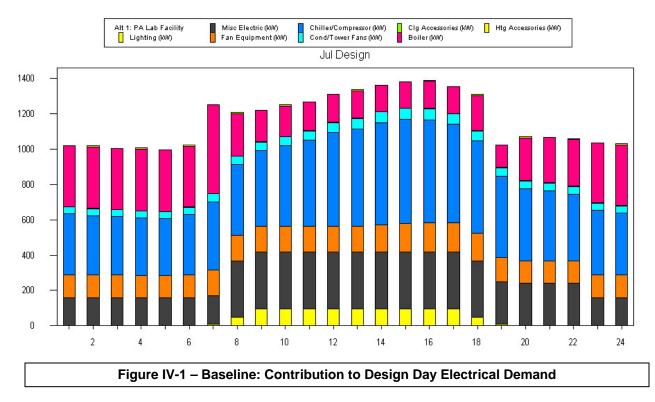
$$O.C. = A_{office} \times \frac{\$}{ft^2}_{office} + A_{lab} \times \frac{\$}{ft^2}_{lab} + A_{class100k} \times \frac{\$}{ft^2}_{class100k} + A_{class100k} \times \frac{\$}{ft^2}_{class100k}$$

	Table IV-2								
A <sub>office</sub>	(\$/ft <sup>2</sup> ) <sub>office</sub>	A <sub>lab</sub>	(\$/ft <sup>2</sup> ) <sub>lab</sub>	A <sub>class100k</sub>	(\$/ft <sup>2</sup> ) <sub>class100k</sub>	A <sub>class10k</sub>	(\$/ft <sup>2</sup> ) <sub>class10k</sub>	Total	
27,569	\$ 1.50	23,465	\$ 7.50	10,000	\$ 18.00	6,000	\$ 36.00	\$	613,341

The roughly calculated number is lower than the simulation's values, but that makes sense. The published values are from an average of facilities, and this particular facility has no energy recovery, so it would be on the high side.

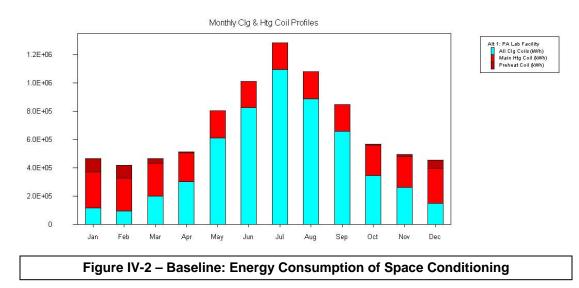


The building is a large energy user. Process equipment, the need for 24 hour space conditioning, and the large airflows associated with laboratory spaces are significant contributors to this load. The contribution of cooling equipment to the cooling design day energy peak can be seen in **Figure IV-1**.

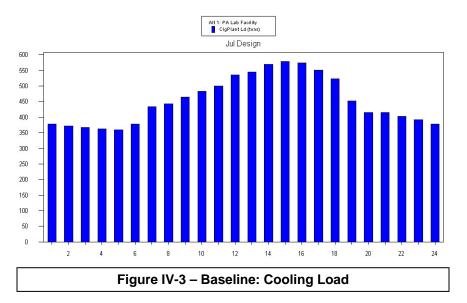




Space conditioning, in general, is a large contributor to the building's energy use. In **Figure IV-2**, the red band of reheat coils is clearly visible throughout all months of the year (used for pure heating in winter, and reheat of cooled air during the summer), and cooling is a significant energy user during the summer months.



Given the large amount of cooling energy used, and the fact that PECO has a special low rate (about \$0.035/kWh) for any equipment associated with thermal storage, the prospect of using demand-limiting storage was decided upon. "Load Leveling", a common control methodology for ice storage, was decided against because of the relatively low ratio between on-peak load and off-peak cooling load for the design day, as shown in **Figure IV-3**.





## E. Design Procedure

Since the cooling load is known from the preliminary analyses, the design itself is a matter of sizing the coils, sizing the ice tanks, sizing the chillers, and sizing the peripheral equipment.

#### 1. AHU Cooling Coil Design

The AHU cooling coils were designed with a 40°F supply temperature and a 13°F  $\Delta$ T in mind. This low temperature and high  $\Delta$ T was chosen because of its potential for pump and piping savings (Taylor 2000). Additionally, it was decided that 25% glycol would be used throughout the system because it would eliminate the added first cost and added energy cost of needing to use a large heat exchanger for the system.

The coils themselves were selected with USA Coil & Air's selection program. This program enables one to input coil physical data (i.e. material, dimensions) as well as properties such as fluid type, entering fluid temperature, and entering air conditions. Coil size was decided upon by picking a McQuay air handling unit that could handle the required supply air flow (calculated with Trane's Trace software). The coil sizes were then taken directly from McQuay Skyline literature.

The coils were sized to match the cooling load and leaving air temperature required for their respective AHU with a 13°F  $\Delta$ T.

A brief summary of the flows and loads associated with each AHU can be seen in **Table IV-3**. All of the data from the coil selection is available in **Appendix IV-4**. The Skyline AHU data used to select coil size is in **Appendix IV-5**.

	Table IV-3 – AHU Summary						
AHU Number	Skyline Model Number	Load (tons)	25% Glycol Flow (gpm)	Supply air flow (scfm)	Type of System		
1	021	19.1	43.0	6,672	CAV, recirc		
2	035	80.1	173.2	11,123	CAV, 100% OA		
3	025	38.7	83.9	6,447	CAV, recirc		
4	025	35.7	77.5	6,268	CAV, recirc		
5	010	17.0	46.3	3,394	CAV, recirc		
6	010	16.0	36.6	3,534	CAV, recirc		
7	025	59.1	129.1	8,375	CAV, 100% OA		
8	021	41.9	92.5	7,535	CAV, recirc		
9	014	25.5	56.0	6,381	CAV, recirc		
10	055	90.2	99.0	14,603	VAV, recirc		
11	014	32.5	78.5	5,930	CAV, recirc		
12	045	62.8	134.5	16,713	CAV, recirc		
13	035	50.2	109.8	13,386	CAV, recirc		
14	010	18.5	40.9	2,989	CAV, 100% OA		
Totals		587.3	1,200.8	113,350			

Extensive recalculation of airside pressure drops was decided to be unnecessary, as the calculated flows are generally a bit lower than those in the design documents. Additionally, the main focus of this analysis is the water side of the cooling system. Opting for the conservative choice, total airside pressure drop were taken directly from the design documents.



#### 2. Ice Storage Design

A preliminary evaluation of demand-limiting ice storage was done in a spreadsheet, with a cooling plant capacity of 600 tons. Given that cooling capacity, the maximum amount of tonhours of charging on cooling design day was calculated. On-peak time for an ice storage application during the summer months is 10am -8pm, and charging is done at all other times. The results are shown in Figure IV-4. As one

can see, a large chunk of the cooling load and energy during the middle of the day is shifted to the off-peak hours. Based on this data, the maximum chargeable capacity is 2774 ton-hours.

Additionally, the effect on the building electrical load was looked at, and the results are presented in **Figure IV-5**. Approximately 2885 kWh is shifted to off-peak and a lower utility rate.

The next step, before selecting the storage equipment, is to pick an operating strategy.

The following ice operating strategies were looked at:

- Chiller Upstream
- Chiller Downstream
- Parallel Operation

In chiller upstream operation, the return (53°F) is first cooled by the chiller, and then goes through the ice tank to be cooled down fully to 40°F. This has the effect of de-rating the ice tanks because of the low return temperature. (Dorgan and Elleson, 1994)

In chiller downstream operation, the return is first cooled by the ice tanks, and then is fully cooled to 40°F by the chiller. This has the effect of de-rating the chiller because of the lower return temperature. (Dorgan and Elleson, 1994)

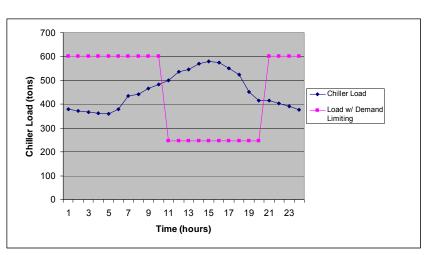
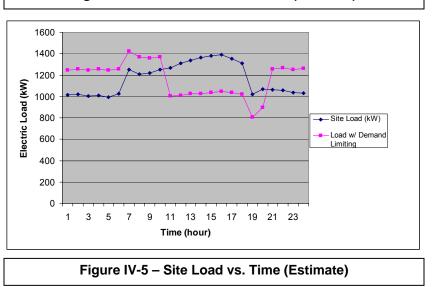


Figure IV-4 – Chiller Load vs. Time (Estimate)





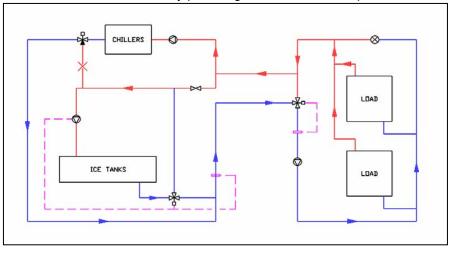
Conversely, in parallel flow, both the ice tanks and the chiller see the higher 53°F return temperature. (Calmac, 2000) The system becomes more economical, but the controls and piping become a little more complex. Parallel flow was chosen as the operating scheme because there is no need to de-rate the chillers or the ice tanks, thereby providing the most efficient operation.

Flow schematics for both the charge and discharge periods are shown in **Figure IV-6** and **Figure IV-7**.

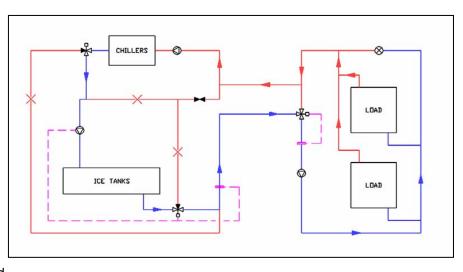
Calmac's modular internal melt ice-on-coil system was chosen for two reasons. The first is the relative simplicity of obtaining size and operational data, and the second is ease of selection and installation of modular equipment.

The last decision that had to be made was the control scheme. The options were equipment to set-point and an optimized strategy

The former is the illustrated strategy previously in Figure IVset-point 4. Α is established by that analysis, and the ice tanks are used anytime the cooling load is above that setpoint during the on-peak period.



# Figure IV-6 – Schematic of Discharge Period



# The latter is harder to

# Figure IV-7 – Schematic of Charge Period

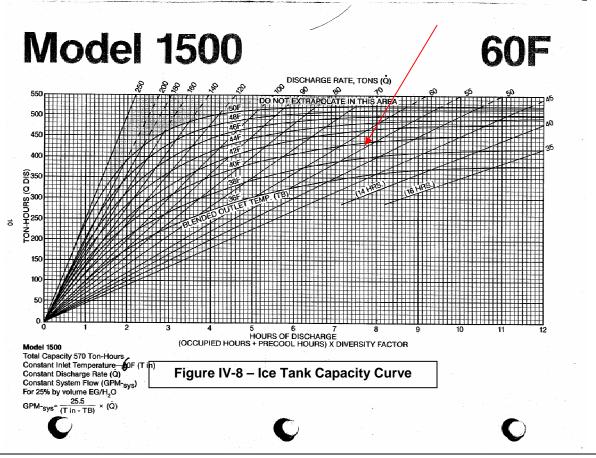
implement. It attempts to predict the load for the day using algorithms, and uses the ice tanks to keep the cooling load seen by the chillers as low as possible in such a manner as to almost fully discharge the tanks at the end of the day.

The optimization strategy was chosen as the most desirable given the plan of shifting as much load as possible to the off-peak period. With this plan, small cooling loads would still be met by ice during the day, and would get the lower utility rate associated with thermal storage applications.



#### 3. Ice Storage Equipment Selection

- a) Choose Model The Calmac 1500 model was chosen, because it has the highest nominal capacity (about 570 tons). It is actually just three of the smaller 1190 models strung together.
- b) **Hours On** As discussed earlier, the ice tanks will be providing cooling for 10 hours on the design day.
- c) Hours Precool This is the cooling that must be done before the beginning of the day, if the temperature is allowed to "float" the night before (when the building is unoccupied). Since a lot of the laboratory space must be kept at or near design temperature at all times, this is set to 0.
- d) Diversity Factor Average Load/Peak Load. In this case, it is 0.78.
- e) Adjusted Hours Equal to Diversity Factor x Hours On = 7.8 hours
- f) Inlet and Outlet Temperatures 40°F and 53°F, respectively.
- g) Use Calmac Data to get Discharge Rate and Adjusted Capacity Calmac has charts based on system return temperature. There is one for 50°F and 60°F. Values will be taken from both charts, and then interpolation will be used to get the correct values for a 53°F return temperature. The chart for 60°F is shown in Figure IV-8 below. The point that corresponds to a leaving water temperature of 40°F and adjusted hours of 7.8 is chosen. This gives a capacity of about 440 ton-hours/tank and a discharge rate of about 55 tons/tank. After the interpolation, total capacity is 426 ton-hours/tank and the discharge rate is about 53.25 tons/tank.



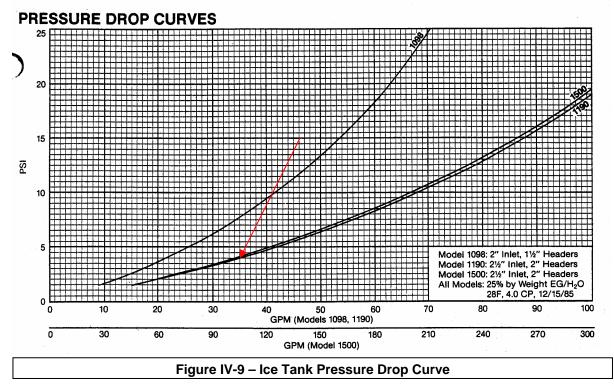
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h) **<u>GPM**<sub>sys</sub> – The design flow rate</u> is calculated using the following equation.

$$GPM_{SYS} = \frac{25.5}{T_{in} - T_B} * Q_{discharge}$$
 It comes out to 104.5 gpm.

i) **Pressure Drop** – The head loss through the tanks is calculated from the following chart in **Figure IV-9**. From this chart, the head loss is about 4.5 psi, or 10.35 ft wg.

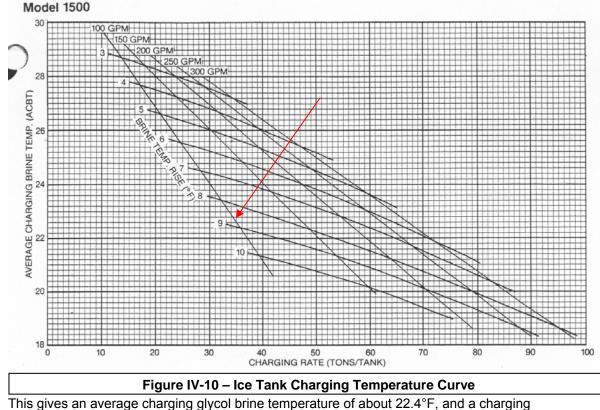




j) Charging Rate – Calculated from

$$Rate = \frac{Total \ Capacity}{\# \ of \ Tanks \times Hours \ Ch \arg ing} = \frac{2982}{7 \times 12} = 35.5$$

k) Charging Brine Temp – From Calmac literature, Figure IV-10



This gives an average charging glycol brine temperature of about 22.4°F, and a charging flow of 100 gpm/tank (close to the discharge flow). The  $\Delta T$  of the charging bring is 9°F.

At this point, all the necessary information about the ice tanks has been recorded. Dimensional data will not be needed until the construction management section.



### 4. Selecting the Chiller

Chiller selection was fairly straightforward. Screw and centrifugal chillers were the first choice because of the recommendations of the ASHRAE <u>Design Guide to Cool Thermal Storage</u>.

Carrier screw chillers were looked at first, because the available selection software enabled generation of equipment, flow rates, unloading curves, and a whole library of information on command. Unfortunately, the methodology the software used to select equipment made it hard to get the right operational characteristics, so Carrier was ultimately abandoned. Additionally, a representative of Calmac recommended I pursue chillers from Trane or York for ice storage applications.

Representatives of Trane and York were also contacted, and were given a synopsis of the desired application, along with the following design data:

- Compression Method: Centrifugal
- Load: 600 tons
- Operating Fluid: 25% Glycol/Water Solution
- Flow: 1,200 gpm
- Charge Conditions: Leaving temperatre of 22.4°F with ΔT=13°F
- Discharge Conditions: Leaving temperatre of 40°F with ΔT=13°F

The York representative suggested a screw compressor with his equipment, and a system of three chillers at 200 tons a piece was decided upon.

Data on the York chillers is available in **Table IV-4**. Unloading data is available in **Table IV-5**.

Table IV-4 - York Chiller Specs						
Capacity	200	tons				
Condenser Flow	600	gpm				
Condenser $\Delta P$	22.8					
ECWT	85					
LCWT	94.7					
Evaporator Flow	400	gpm				
Evaporator ΔP	15.7	ft wg				
Fluid	25%	ethylene glycol				
Charge						
ECHGT	35.4	°T				
LCHGT	22.4	°T				
kW/ton	1.080					
Discharge						
ECHGT	53	°T				
LCHGT	40	°T				
kW/ton	0.740					

Table IV-5 - York Chiller Unloading				
% Capacity	ECWT	kW/ton		
Charge				
100%	85	1.080		
100%	75	0.860		
100%	65	0.685		
Charge				
100%	85	1.080		
75%	75	0.880		
50%	65	0.890		
25%	65	1.520		
Discharge				
100%	85	0.740		
75%	75	0.673		
50%	65	0.680		
25%	65	0.940		

This data was used to approximate the ambient modification curves and constant temperature unloading curves for use in the eventual energy simulation. The details of those calculations can be found in **Appendix IV-6**.



## 5. Peripheral Equipment Selection

#### a. Pipe Layout and Sizing

The pipe layout was roughly approximated, making certain assumptions in order to make the calculations easier. These assumptions are:

- Chilled glycol pipe will run vertical from chillers/ice tanks in mechanical room to about roof level
- Chilled glycol pipe will then run in a straight horizontal line to meet all AHU cooling coil loads.
- All AHUs are evenly spaced on roof.
- The distance between the AHU and the long run of pipe is negligible.
- Supply pipe distance is the same as return pipe distance.
- To take into account valves, fittings, etc, the total pipe length is doubled.

453' TO AHU TO AHU TO AHU TO AHU TO AHU TO AHU 55' 30' 5' 30' 5' 30' 5' FROM CHILLER AND ICE TANKS Figure IV-11 – Rough Piping Schematic

Using these assumptions, a general layout would look like Figure IV-11.

Flows to each AHU were already known from the coil calculations, and the pipe diameter was sized based on recommendations from Cool Tools (Taylor, 2000), a chiller design guide. The pipe diameters recommended by Cool Tools all keep the glycol velocity well under the 10 ft/s "rule of thumb" generally used.

Full pipe friction loss calculations are available in **Appendix IV-7**, and the summary of head loss values are tabulated in the next section, pumps.

The pipe loss calculations were performed using a Moody chart and the appropriate equations. (McQuiston 2000) Pipe roughness and glycol properties were taken from ASHRAE Fundamentals (2001).



### b. Pumps

Pumps were selected using the online selection system on the Bell and Gossett website. All pumps are constant volume centrifugal base-mounted end-section. The criteria and resulting pump selection are given briefly in **Table IV-6**. More detailed information on each pump can be found in **Appendix IV-8**.

Table IV-6 - Pump Summary					
Pump System	Flow (gpm)	Head (ft wg)	Unit Name	Motor Size (HP)	
Chiller 1	400.0	15.7	1510 5BC	3	
Chiller 2	400.0	15.7	1510 5BC	3	
Chiller 3	400.0	15.7	1510 5BC	3	
Load	1200.0	45.52	1510 5A	20	
Ice Tank	731.5	13.25	1510 6BC	5	
Condenser	1800.0	23.6	1510 8G	15	

#### c. Cooling Towers

Marley NC class 2-speed cooling towers are being used in the simulation. Operational data was taken from the Marley Update software, and product information can be found in **Appendix IV-9**.

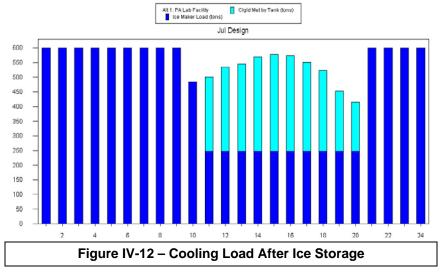
#### F. Summary of Results

After entering all of the aforementioned redesign values into the Trace energy simulation program, the results are summarized in **Table IV-7**.

	Table IV-7 - Results of Mechanical Analysis					
ScenarioOn-Peak Demand (kw)Total Consumption (kWh)Consumption Shifted to TS Rate (kWh)				Оре	Yearly erational Cost	
Baseline	1,387	7,816,331	0	\$	738,209	
Ice Storage	1,016	7,490,254	1,165,220	\$	634,207	

A breakdown of redesign operational cost and energy usage by month can be found in **Appendix IV-10**. The redesign ends up saving about \$104,000 a year, or 13.5% of the yearly operational cost.

**Figure IV-12** shows the new design day cooling load profile. The dark blue bars are the load on the chillers, while the light blue bars represent the cooling load met by the ice tanks. Notice how a significant portion of the cooling load has been shifted to the off peak period.





# G. Conclusion

The thrust of the redesign was to replace the building's existing cooling strategy (DX coils in packaged AHUs) with a chilled glycol system that incorporates ice-storage into its operation. The savings would be realized from 1) decreased peak demand 2) more efficient use of energy 3) specialty rate provided by PECO for energy consumed by off-peak cold thermal storage.

The results show that the redesign does save money and energy as intended. Even with the added energy use of the pumps and cooling, the chilled glycol/ice storage system saves \$104,000 in operational cost per year.



# V. Lighting Breadth Study

# A. Introduction

This section presents the lighting breadth portion of the redesign. First, pertinent background information on the lighting system will be established. Then, the concept and goals of the redesign will be introduced. The results of preliminary studies will be discussed, and then the procedure for the redesign itself will be talked about. The results will be summarized, and the conclusion will be reached.

# **B. Background Information**

The plan of this redesign is alter the lighting layout of room 123 in the administrative section (section 3) of the building (see **Figure V-1**). The room is an open office plan, about 50' long, 40' wide, and 9' high. With a building height of 31'4", this makes the plenum approximately 22' high.

The room is lit by forty parabolic three-lamp PM3N 2' x 4' Lithonia luminaries (see **Appendix V-1** for lighting manufacturer data). Thirty-eight of these consume about 88 watts of power, and the remaining two consume 140 watts.

During an ASHRAE 90 evaluation of the building, it was noticed that the room had a

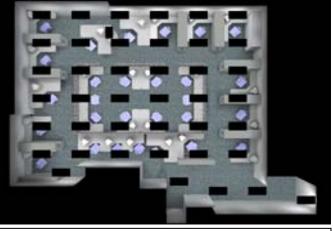


Figure V-1 – Room 123 Plan

relatively high lighting power density of 1.8 W/ft<sup>2</sup>. Additionally, the office has no source of outdoor light, which can make for a less pleasant working environment.

# C. Concept and Goals

The thrust of the redesign is to daylight room 123 (an open office plan space) using skylights. The redesign must provide adequate, uniform lighting of 50 foot-candles on work surfaces, which is IESNA Handbook recommended illuminance for open office plans. The redesign must also be cost effective.

Additionally, if day-lighting the space proves infeasible, the high-energy usage lights will simply be replaced with other, more energy efficient luminaries. This design, as well, must provide adequate, uniform lighting.



## D. Preliminary Studies

1. Baseline Case - Lithonia's Photometric Viewer

To get a quick idea of how the space is lit, Lithonia's Photometric Viewer was utilized. This utility has a Room Estimator, which enables one to calculate either the illuminance on the work plane given a number of evenly distributed luminaries, or the number of luminaires needed to get a given illuminance.

The IES file for the fixture, a 3-lamp parabolic fluorescent luminaire, was found on the Lithonia website (**Appendix V-1**).

The space was entered as a box of 40' by 50' by 9', with a work plane height of 2.5'. The main grid portion of six by six luminaires was entered as the number of luminaires in the space. The result of these simple calculations was an illuminance of 91 foot-candles on the work plane, clearly above IESNA recommendations of 50 foot-candles.

The next step was a more detailed study using AGI32 lighting software.



## 2. Baseline Case – AGI Lighting Software

AGI32 v1.66 software can be used to simulate and visualize the effects of a lighting design on a space. In this case, it was used to investigate the work plane illuminance and general lighting uniformity of the existing design.

The existing lighting layout and room geometry were entered into AGI32, and the surface reflectances were entered based on the reasons listed in **Table V-1**.

The light loss factor was then calculated using the equation built into the AGI32 software.

# $Total \ LLF = LLD \times LDD \times BF$

Lamp Lumen Depreciation was taken as 0.88 from IESNA estimations for fluorescent lamps. Luminaire Dirt Depreciation was calculated from the appropriate figure in the IESNA handbook. The fixtures are category IV: opaque unapertured top and a louvered bottom. Since this is a laboratory facility, cleaning was taken to be fairly rigorous. The room was designated "C" and cleaned every nine months, yielding an LDD of 0.92. Along with a ballast factor of 0.95, this yields an LLF of 0.769.

The model was then run to a convergence of 0.01 with a minimum element area of 0.3  $ft^2$  and a element luminance threshold of 1.3 (day-lighting simulations were run to a convergence of 0.001).

The output is presented in **Figure V-2**. As one can see, the illuminance values on the desks are well above IESNA recommendations, reaching 100 foot-candles on many desks. Additionally, **Figure V-3** shows that the light incident on the Visual Display Terminals (VDTs) is also quite high (50 foot-candles, the amounted recommended by IESNA for a working area, not a VDT), possibly indicating a high glare. A larger version of these and more pictures of the baseline case is available in **Appendix V-2**.

Based on these results, it becomes more apparent that a lighting redesign could benefit this space.

Table V-1					
Surface Reflectance Reason					
Ceiling	0.81	Tile Data			
Floor	0.20	IESNA			
Wall	0.62	IESNA			
Cubical Wall	0.38	Assumed			
Furniture	varies	AGI values			

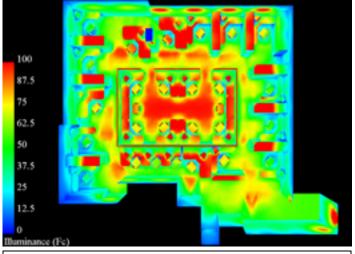
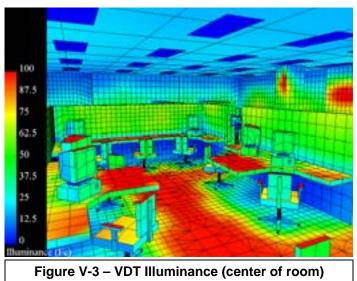


Figure V-2 – Illuminance Distribution





# E-1. Design Procedure: Daylighting

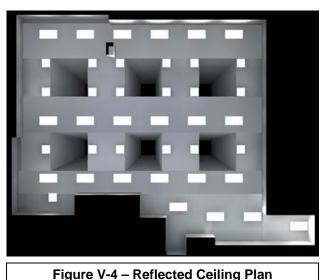
The area of skylighted ceiling was based on 5% of the room area, giving an approximate total of:

 $50 ft \times 40 ft \times 5\% = 100 ft^2$ 

This works out to about six skylights of 4' by 4', yielding 96  $\text{ft}^2$  of skylight.

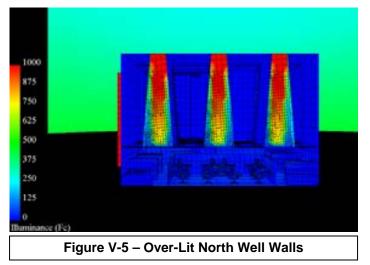
Since the ceiling plenum is so large, skylights with splayed wells were chosen instead of ones with straight walls. These have an increased efficiency over conventional straight wells. A schematic cross-section of the resulting design can be seen in **Appendix V-3**, as well as a 3D CAD view. The wells are 8' by 8' at bottom. They were given a reflectance of 0.81 (to match the ceiling) and the skylights themselves were given a transparency of 0.85.

Luminaires were selected from the Lithonia website; their data sheets can be found in **Appendix V-1**. They are 2'x4' two lamp and 2'x2' three lamp parabolic luminaires designed for use with VDTs. They were arranged in a layout (see **Figure V-4**) that approximated the uniformity of the original design.



The smaller 2'x2' luminaires that frame the skylight wells would be used when day-lighting the space is not an option, and the large 2'x4' luminaires would be on during all occupied periods.

The next step in the design would be to run the day-lighting analysis at the approximate "worst case" scenario: June 21 at 12:00pm.



With the smaller luminaires off, the daylighting scheme drastically over-lit the space, so the transparency was changed to 0.45. This helped a slightly, but there were still "hot spots" on some of the desks. Upon close analysis of the model, it was found that the north walls of the skylights were getting a large amount of sun that was (because of the solar angle) traveling too deep into the well, and thereby causing hotspots. The "hot" skylights are shown in **Figure V-5**.



To remedy this problem, the reflectance of all the north well walls was changed to 0.45. The resulting illuminance on the wells can be seen in **Figure V-6**. It is significantly reduced.

After making these changes, the light distribution on June 21 at 12:00pm is represented in **Figure V-7**. The illuminance on the desks is fairly uniform, and provides adequate light. There are some darker spots over by the walls, but it is assumed that task lighting will be available through the cubicle system.

However, further analysis and a quick reality check threw some doubt onto the feasibility of the day-lighting system.

It was found that day-lighting would not adequately light the space on June 21 until approximately 11:00am, and would stop providing sufficient light at about 2pm.

At this point, a quick reality check was done to get a quick estimate of possible savings per year. The MS Excel spreadsheet is in **Appendix V-4**.

This estimate made the following assumptions:

• Day-lighting is available 6 hours out of every day.

1000 875 750 625 500 375 250 125 0

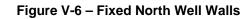




Figure V-7 – June 21 at 12:00pm

- Day-lighting is available to provide savings on clear and partly cloudy weekdays, as defined by Appendix V-5.
- Energy is \$0.04 per kWh. The value used is from the last block of the PECO Utility Tariff (see Appendix IV-3) because the high energy use of the facility will go through the more expensive blocks.

Under these assumptions, the yearly energy costs of the two designs are:

Baseline: \$412.76 Daylighting: \$318.43 Savings/year: \$94.33

Given the unlikelihood that saving \$94.33 per year would justify the construction of six 22' skylights, the day-lighting plan was abandoned, and a second option was looked at.



# E-2. Design Procedure: Luminaire Replacement

The second option is simple: replace the existing luminaires with ones that provide a more uniform light distribution and lower illuminance. Given the success of the 2'x4' VDT luminaires in providing an even light distribution, they were chosen as the replacement for the luminaires in the original lighting plan. The resulting illuminance values can be seen in **Figure V-8**.

The luminaires are able to provide a very uniform distribution on almost the entire desk surface. Once again, there is a slight problem with the edges, but that can be solved by the task lighting that comes with many cubicle systems.

**Figure V-9** shows the light incident upon the VDTs. It is significantly lower than the surroundings (about 25 foot-candles), reducing glare on the screens.

Additionally, the luminaires consume 77W of power as opposed to the original 88W of power. This presents some small opportunity for cost savings, which will be calculated in the construction management section.

#### F. Summary of Results

The day-lighting design was initially tuned to work perfectly under the "worst case" conditions of 12:00pm on June 21. However, this design did not supply enough hours of day-lighting to be feasible. The savings under optimum conditions would be less than \$100 a year, and a more detailed

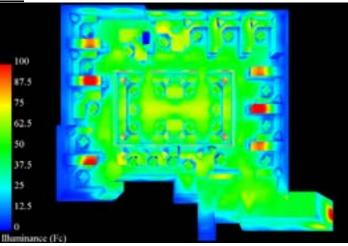
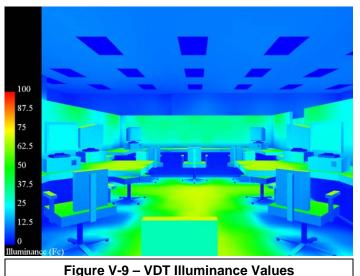


Figure V-8 – Illuminance Values



analysis would provide only less savings. This would seem to be a relatively small amount of savings compared to the effort and cost of installing six 22' skylights in the office.

Replacing the existing parabolic luminaires with ones tuned to VDT gave a more even illuminance distribution at the desired value. This kind of uniformity can contribute to worker comfort with the space, and increase productivity. Additionally, the new luminaires consume 77W per luminaire compared to the 88W of the existing design.



# G. Conclusion

Upon analysis, the original space seemed to be over-lit, which may reduce the comfort and productivity of the workers in it. Two different redesigns were looked at. The first was a day-lighting scheme that used splayed skylights in an attempt to provide a relatively uniform illuminance on the desks of works. The second (to be used if the day-lighting scheme proved not feasible) would simply replace existing luminaires with specialty ones made for VDT use.

The day-lighting redesign is not feasible, given the large effort for small savings and relatively little amount of time where day-lighting is available. It is not recommended. However, replacing the luminaires gave a more uniform illuminance pattern on the work plane at a lower energy consumption, and should be considered if the price difference is not too high.



# VI. Breadth – Construction Management

# A. Introduction

This section presents the construction breadth portion of the redesign. First, pertinent background information on the construction will be established. Then, the concept and goals of the redesign will be introduced. The methodology and results of preliminary studies will be discussed, and then the procedure for the redesign itself will be talked about. The results will be summarized, and a conclusion will be reached.

# **B. Background Information**

Not a lot of information was available on the construction side of the project.

The entire project was driven by first cost considerations, as the client wanted the facility up and running in order for it to start making money. Operational cost was deemed a low concern, as utility costs could be passed on to clients.

As mentioned earlier, the project takes place on a large commercial campus, and there is ample room around the site for maneuvering equipment, cranes, etc.

### C. Concept and Goals

This breadth options is composed of smaller reality checks and pricing calculations. It attempts to tie in the mechanical and lighting redesigns with factors such as site layout and equipment pricing. The goals for success are as follows:

- 1. The site has enough extra space to hold the required mechanical equipment
- 2. The mechanical system can pay for itself in 3 to 5 years using a simple payback calculation.
- 3. The lighting redesign will pay for itself in 3 to 5 years.

The lighting payback was not lumped in with the mechanical payback because of the very large differences in affect on yearly operational cost. The energy savings associated with the lighting redesign are most likely <<1% of the mechanical redesign savings.

#### **D. Preliminary Studies**

A large amount of preliminary research was not necessary for the redesign. Manufacturer data was consulted for product dimensions, and vendors were contacted in order to get accurate installation pricing, when possible. When vendors were not able to provide the necessary information, the publication <u>RS Means Mechanical Cost Data</u> (2003) was consulted.

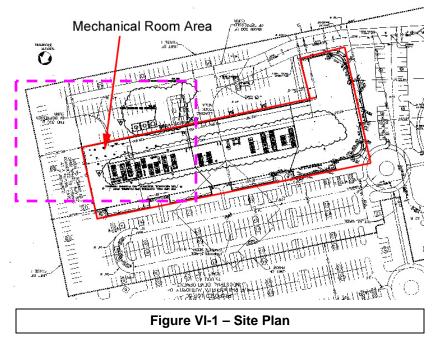


# E. Design Procedure

### 1. Site Layout Check

This section simply seeks to perform a few reality checks to make sure that the proposed mechanical redesign is feasible in the context of the site. The lighting redesign is not influenced by site considerations at all, so this section will not address it.

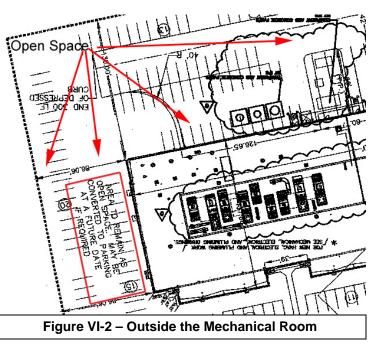
**Figure VI-1** presents a view of the site. As one can see, there is a lot of space built around the main structure, one of the benefits of having a large campus to develop.



Maneuvering equipment (i.e. trucks, cranes) around the site should not be a problem at all.

A closer look at the area outside of the mechanical room is presented in Figure VI-2.

As one can see on the note in the figure, a good portion of the area behind the building is not earmarked for anything. Some mechanical equipment is already set for placement out there. The mention of "possible future parking" is brought up, but the more immediate use of this open space to accommodate both the ice tanks and any required expansion to the mechanical room is guite feasible.

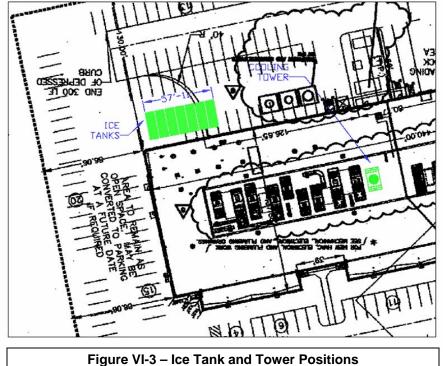




In **Figure VI-3**, one can see the proposed placement of both the cooling tower and the ice tanks on the site. There is

on the site. There is ample room for both.

Dimensional data on both the Calmac ice tanks and the Marley cooling tower was taken from CAD files from their respective manufacturers.





## 2. Mechanical System Payback

Mechanical system payback will be calculated taking into account the time value of money. The assumed interest rate of 6% used will be corrected for the inflation rate of August 2003, 2.16% (<u>www.inflationdata.com</u>, 2004). The following correction equation is from Lindeburg (2001), where *i* is the interest rate, and *e* is inflation rate.

$$i' = i + e + ie = .06 + .0216 + .06 \times .0216 = .0829$$

Pricing used for the calculations are outlined in **Table VI-1**. RS Means values were corrected for location using the materials and installation correction factors located in the publication. A more detailed look at some of the calculations for pricing is available in **Appendix VI-1**.

Operational costs were calculated using Trace, and the equipment costs were directly from vendors.

The general purpose pumps in RS means are based on a flow rate, motor HP and 100' of head. Since those numbers did not necessarily meet the pumps that were chosen, pricing was done on the basis of motor size.

Table VI-1 - Price Summary					
Baseline					
Item	Cost		Source		
Electrical/year	\$	726,501	Simulation		
Gas/year	\$	11,708	Simulation		
Redesign					
Item	Cost		Source		
Electrical/year	\$	621,266	Simulation		
Gas/year	\$	12,941	Simulation		
3xYork Chillers	\$	303,000	York Rep		
7xlce Tanks	\$	328,020	Calmac Rep		
Pump	\$	16,776	RS Means 2003		
Cooling Tower	\$	34,137	RS Means 2003		
Piping	\$	84,305	RS Means 2003		
Piping Insulation	\$	30,805	RS Means 2003		

The cooling towers are calculated on a per ton basis, so the calculation is fairly straightforward.

Steel pipe pricing is by length, and includes couplings and hangers. Additionally, the elevation factor in RS Means was used to take into account the amount of piping installed near roof level.

Piping insulation was taken as cellular glass because of the "0 water transmission" characteristic. When dealing with glycol flowing at ~22°F, it is *crucial* that moisture does not easily reach the pipes, or else the insulation could take serious moisture damage. This could lead to a degradation of system performance and eventual leaks.

Payback time is considered to be the time (in years) at which both options have the same net present worth. The following equation (Lindeburg, 2001) is used to correct the yearly utility payments to a net present worth.

Annual to 
$$\Pr esent = \frac{(1+i')^{n} - 1}{i'(1+i')^{n}}$$

*i*' is the interest rate corrected for inflation, and *n* is the number of years. The payback equation was set up as follows:

$$C_{Base, yearly} \times AtoP = C_{Re\,design} + C_{Re\,design, yearly} \times AtoP$$



This equation was solved iteratively to yield the information in **Table VI-2**.

The analysis shows that it will take about 11.85 years for the two scenarios to reach equivalence.

	Table VI-2 - Payback Time					
n		11.85				
i'		0.0829				
C <sub>B,Y</sub>		AtoP	Total			
\$	738,209	7.37	\$ 5,704,706			
C <sub>R,Y</sub>		AtoP	Total			
\$	634,207	7.37	\$ 4,901,000			
C <sub>R,F</sub>		AtoP	Total			
\$	803,738	1	\$ 766,238			
		Total	\$ 5,704,000			

 $C_{B,Y}$  = Cost, Baseline, Yearly  $C_{R,Y}$  = Cost, Redesign, Yearly  $C_{R,F}$  = Cost, Redesign, First AtoP = Annual Cost to Present Cost Factor *i*' = interest rate corrected for inflation

n = payback period (years)



# 3. Lighting Design Payback

Lighting payback was not based on day-lighting, which was discarded as too costly in the middle stages of the lighting analysis. It is being replaced by a fixture change-out.

Approximate pricing information from Columbia Lighting was obtained. The price breakdown is illustrated in **Table VI-3**.

Table VI-3 - Lighting First Cost									
Fixture	Number of Fixtures	Price per Fixture	Total First Cost						
Existing – 2x4 Fluorescent Parabolic	41	\$ 72.00	\$2,952.00						
Redesign – 2x4 Fluorescent VDT Parabolic	41	\$ 98.00	\$4,018.00						

The lighting operational cost was done using simple calculations as illustrated in Table VI-4.

Table VI-4 - Lighting Operational Cost										
Fixture	Number of Fixtures	Power/ fixture (W)	kW	Operational Hours/year	kWh	\$/kWh	Operational Cost/year			
Existing – 2x4 Fluorescent Parabolic	41	88	3.61	2607	9407	\$0.041	\$	385.67		
Redesign – 2x4 Fluorescent VDT Parabolic	41	77	3.16	2607	8231	\$0.041	\$	337.46		

If we do a simple payback calculation using the following equation:

$$C_{First,Baselin} + t \times C_{Op,Baseline} = C_{First,Re\,design} + t \times C_{Op,Re\,design}$$

where *t* is the payback period in years, the lighting pays for itself in 21 years.

However, when making a decision on the applicability of the redesign, one must still take into account factors such as worker productivity resulting from a more pleasant, less harshly lit lighting environment.



#### F. Summary of Results

A simple check of the site layout shows that there is ample room for a possible mechanical room expansion and the placement of the ice tanks. The equivalent-cost payback analysis of the mechanical redesign showed a payback period of almost 12 years. The equivalent-cost payback analysis of the lighting redesign showed a payback period of 17 years.

It must be noted that there are other factors that may be added in to the mechanical analysis, i.e. cost of extra mechanical room space, cost to bury the ice tanks, but they were not taken into consideration. If the mechanical redesign had looked like it was going to payback in the allotted time, then those extra factors would have been considered.

#### G. Conclusion

The purpose of this breadth was to do a quick check on the site layout, and then make the final payback calculations on the mechanical and lighting redesigns.

The site layout looks fine, as there is ample room built in for expansion. The ice tanks and cooling tower fit in with the existing equipment. The mechanical payback calculations resulted in a payback of almost 12 years, clearly more than the 3 to 5 year goal. The lighting design showed a payback period of about 21 years, also clearly more than the 3 to 5 year goal.

The mechanical redesign can not be recommended, as it would be too hard to convince a client already driven by first cost to take a look at longer term savings. 3 to 5 years may not have been possible, but 12 is out of the question.

The lighting redesign is still recommended, as there are other benefits to the layout. Namely, a space with less harsh lighting can be a more productive space to work in. Even though the payback time is large, the first cost of the redesign is <<1% of other building systems.



# VII. Summary

#### A. Background

The building being studied is a biological clean room facility in eastern Pennsylvania. It has class 10,000 and 100,000 clean room space, non-clean lab and storage space, and administrative/office space. The existing mechanical systems are fifteen packaged rooftop air handling units, fourteen of which are included in this study. Of those fourteen, one is a VAV system serving the administrative and office spaces, and the remaining thirteen are constant volume systems.

#### B. Mechanical Breadth

Thermal conditioning is performed by 15 packaged rooftop units and terminal reheat via electric duct heaters. The existing mechanical system performs space cooling by direct expansion coils that come with the prepackaged air handling units. While this system, has a low first cost, it may be possible to reduce the operating cost with a more efficient system.

The concept is to use a system of chillers and demand limiting partial ice storage in order to reduce the operating cost of the building. This system would shift a portion of the cooling load to the night hours, where utility costs are lower.

The baseline condition had an HVAC operating cost of about \$738,000, while the redesign had an operating cost of approximately \$634,000. Almost \$100,000 a year in savings was realized with the redesign, which successfully saved energy and money.

#### C. Lighting Breadth

The building has a few open office plan areas. The lighting of one of these spaces was looked at in this analysis, and was found to have a quite high illuminance (about 100 foot-candles, vs. the IESNA recommended 50 foot-candles for open office space) on the desk areas, and about 50 foot-candles on the visual display terminals.

The redesign sought to develop a utilitarian skylighting layout that would end up saving operational cost. However, it turned out that a design that was able to keep the illuminance of day-lighting within the recommended IESNA limits has a very limited window of operation. Upon finding this out, a quick calculation was run, and it was concluded that the day-lighting redesign would only save about \$94 per year at most, which is not enough to justify building six skylights into a 22' plenum.

Instead, one of the VDT-compatible luminaires from the day-lighting scheme was used to replace the existing fixtures, and this provided a uniform illuminance of approximately 50 foot-candles on almost all of the desk space. Additionally, the new fixtures consume a little less power.

#### D. Construction Management Breadth

The construction management section is meant to do a quick check of the site layout, a equivalent cost analysis for the mechanical redesign, and a simple payback analysis for the lighting redesign. The goal is to get the last two items to pay back within 3 to 5 years.

The site was found to have enough space to support expansion of the mechanical room, layout of ice tanks, etc. The fact that the facility was built on a large, existing campus helped contribute to the amount of extra space.

The mechanical redesign pays back in about 12 years, using cost data from both vendors and RS Means. The lighting redesign pay back in about 20 years, using cost data from vendors.



# VIII. Conclusion

The goal of the mechanical redesign was to replace the existing DX coil conditioned air with a chiller and ice storage system. The strategy was to shift a portion of the cooling load to the night hours using demand limiting partial ice storage. This would save both energy and money.

The mechanical redesign ends up saving approximately \$104,000 per year (14%) in operating costs, and about 40,000 kWh (5.4%) per year. Initially, this is successful redesign, but it must be put in the context of the costs for the additional equipment.

The goal of the lighting redesign was to change the lighting strategy for an over-lit open office space. Six splayed well skylights were to be installed in the 22' plenum, and used to cut energy costs and establish a more pleasing atmosphere.

However, the amount of time where this day-lighting scheme would fulfill the utilitarian lighting requirements of an office space is small, and would only save about \$94 per year, hardly enough to justify the amount of additional construction required for six skylights. Instead, lower power luminaires made for use with VDTs were installed in place of the existing luminaires, and were able to successfully save energy and provide a lower, more uniform illuminance.

The goal of the construction redesign was to do a quick check of the site layout, compute the payback period for the mechanical redesign (taking into account the time value of money), and perform a simple payback on the lighting system. The goal for the payback periods was 3 to 5 years. The results of these analyses would provide the final criteria used to evaluate the feasibility of the mechanical and lighting redesigns.

The site was found to easily support the extra space requirements (i.e. the ice tanks for thermal storage) for the redesign. The fact that the facility is located on a large existing campus makes space a minor issue.

The mechanical redesign was found to reach equivalence with the existing design in approximately 12 years (given an interest rate of 6% and an inflation rate of 2.16%). This is clearly above the goal for payback, and the redesign cannot be recommended.

The lighting redesign has a payback period of about 20 years, but there is another factor to take into consideration. The improved illuminance and lighting distribution in the space could have a beneficial impact on the attitude and efficiency of the workers in that space. Given that, and the low relative cost to the other building systems, the lighting redesign of VDT friendly luminaires is recommended.



# IX. Works Cited

Note: information gleaned from computer selection programs is cited in the appropriate section in the main text.

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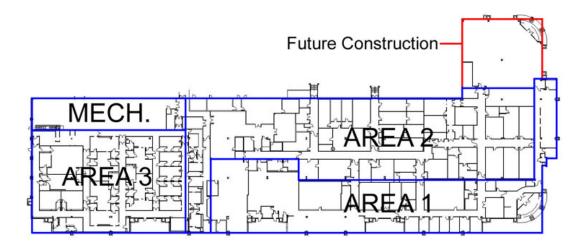
#### C. Construction Management

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# Appendix III-1



- Area 1 Administrative and Office Space
- Area 2 Dirty (i.e. not clean room grade) laboratory and storage space
- Area 3 Class 100,000 and Class 10,000 clean room space
- Mech Mechanical Room

#### Appendix III-2

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| AHU-1  | Area 1   | SF-1-1   
  | 9,890   | 4.41  | 3.00  | AF DWDI   | 11   | 2281  
   
   
   
   
   
   
   
   | 1978  | 20.0   | 1800   | 460-3-60  | 1000  |  |  |  |  |   | | | | | | | | | |
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| AHU-2  | Area 2   | SF-2-1   
  | 12,730  | 3.60  | 3.00  | AF DWDI   | 11   | 867   
   
   
   
   
   
   
   
   | 759   | 20.0   | 1800   | 460-3-60  | 12730   |  |  |  |  |   | | | | | | | | | |
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| AHU-3  | Area 3   | SF-3-1   
  | 7,460   | 3.88  | 3.00  | AF DWDI   | 11   | 1337  
   
   
   
   
   
   
   
   | 974   | 15.0   | 1800   | 460-3-60  | 4740  |  |  |  |  |   | | | | | | | | | |
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| AHU-4  | Area 4   | SF-4-1   
  | 7,340   | 3.76  |   | AF DWDI   | 11   | 1317  
   
   
   
   
   
   
   
   | 958   | 15.0   | 1800   | 460-3-60  | 4170  |  |  |  |  |   | | | | | | | | | |
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| AHU-5  | Area 5   | SF-5-1   
  | 4,200   | 3.49  |   | AF DWDI   | 11   | 1576  
   
   
   
   
   
   
   
   | 840   | 7.5  | 1800   | 460-3-60  | 1600  |  |  |  |  |   | | | | | | | | | |
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| AHU-6  | Area 6   | SF-6-1   
  | 4,120   | 3.48  | 3.00  | AF DWDI   | 11   | 1570  
   
   
   
   
   
   
   
   | 824   | 7.5  | 1800   | 460-3-60  | 1600  |  |  |  |  |   | | | | | | | | | |
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| AHU-7  | Area 7   | SF-7-1   
  | 11,500  | 3.84  | 3.00  | AF DWDI   | 11   | 893   
   
   
   
   
   
   
   
   | 834   | 20.0   | 1800   | 460-3-60  | 11500   |  |  |  |  |   | | | | | | | | | |
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| AHU-8  | Area 8   | SF-8-1   
  | 17,330  | 4.50  | 3.00  | AF DWDI   | 11   | 1264  
   
   
   
   
   
   
   
   | 1539  | 20.0   | 1800   | 460-3-60  | 4000  |  |  |  |  |   | | | | | | | | | |
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| AHU-9  | Area 9   | SF-9-1   
  | 7,930   | 3.84  | 3.00  | AF DWDI   | 11   | 1969  
   
   
   
   
   
   
   
   | 1586  | 15.0   | 1800   | 460-3-60  | 2000  |  |  |  |  |   | | | | | | | | | |
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| AHU-10   | Area 10  | SF-10-1  
  | 24,700  | 5.51  | 2.00  | AF DWDI   | 11   | 1534  
   
   
   
   
   
   
   
   | 2194  | 40.0   | 1800   | 460-3-60  | 4680  |  |  |  |  |   | | | | | | | | | |
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| AHU-11   | Area 11  | SF-11-1  
  | 8,530   | 4.28  | 2.00  | AF DWDI   | 11   | 1437  
   
   
   
   
   
   
   
   | 1281  | 10.0   | 1800   | 460-3-60  | 5060  |  |  |  |  |   | | | | | | | | | |
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| AHU-12   | Area 12  | SF-12-1  
  | 24,480  | 6.36  | 3.50  | AF DWDI   | 11   | 1201  
   
   
   
   
   
   
   
   | 1600  | 40.0   | 1800   | 460-3-60  | 8250  |  |  |  |  |   | | | | | | | | | |
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| AHU-13   | Area 13  | SF-13-1  
  | 17,900  | 6.07  | 3.50  | AF DWDI   | 11   | 1446  
   
   
   
   
   
   
   
   | 1686  | 30.0   | 1800   |   | 5960  |  |  |  |  |   | | | | | | | | | |
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| AHU-14   | Area 14  | SF-14-1  
  | 3,890   | 2.65  | 2.00  | AF DWDI   | 11   | 1388  
   
   
   
   
   
   
   
   | 788   | 5.0  | 1800   | 460-3-60  | 3890  |  |  |  |  |   | | | | | | | | | |
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| Number   | # of circuits  | Туре   
  | Suct Temp   | nt Air  | Quant   | HP Each   | FLA Each   | kW  
   
   
   
   
   
   
   
   | RLA Each  | LRA  | Quantity   | V-PH-Hz   | Crankcase Heater  |  |  |  |  |   | | | | | | | | | |
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   |
| HU-1   | 0  | R-22   
  |   | °F on<br>95   | 2   | 1.0   | 2.0  | 29.4  
   
   
   
   
   
   
   
   |   | Each   | 3  | 460-3-60  |   |  |  |  |  |   | | | | | | | | | |
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   |
| AHU-1<br>AHU-2   | 2  |  
  | -   | 95  | 9   | 1.0   | 2.0  | 98.2  
   
   
   
   
   
   
   
   | - 39  | 214  | 3  | 460-3-60  | yes   |  |  |  |  |   | | | | | | | | | |
   |  |  |   |   |                                     |   |   |   |   |  |  
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   |
| HU-3   | 2  | R-22   
  |   | 95  | 4   | 1.0   | 2.0  | 40  
   
   
   
   
   
   
   
   | 17  | 127  | 4  | 460-3-60  | yes   |  |  |  |  |   | | | | | | | | | |
   |  |  |   |   |                                     |   |   |   |   |  |  
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   |
| HU-4   | 2  | R-22   
  |   | 95<br>95  |   | 1.0   | 2.0  | 39.6  
   
   
   
   
   
   
   
   | 17  | 127  | 4  | 460-3-60  | yes   |  |  |  |  |   | | | | | | | | | |
   |  |  |   |   |                                     |   |   |   |   |  |  
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   |
| HU-5   | 2  | ==   
  |   |   | 2   | 1.0   | 2.0  | 16.4  
   
   
   
   
   
   
   
   | -   |  | 2  | 460-3-60  | yes   |  |  |  |  |   | | | | | | | | | |
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   |
| HU-6   | 2  | R-22   
  | -   | 95  | _   | 1.0   | 2.0  | 16.4  
   
   
   
   
   
   
   
   |   |  |  | 460-3-60  | yes   |  |  |  |  |   | | | | | | | | | |
   |  |  |   |   |                                     |   |   |   |   |  |  
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   |
| HU-7   | 2  | R-22   
  | -   | 95  | 8   | 1.0   | 2.0  | 89  
   
   
   
   
   
   
   
   | 71  | 297  | 2  | 460-3-60  | yes   |  |  |  |  |   | | | | | | | | | |
   |  |  |   |   |                                     |   |   |   |   |  |  
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   |
| HU-8   | 2  | R-22   
  | -   | 95  | 6   | 1.0   | 2.0  | 62.1  
   
   
   
   
   
   
   
   | 17  | 127  | 6  | 460-3-60  | yes   |  |  |  |  |   | | | | | | | | | |
   |  |  |   |   |                                     |   |   |   |   |  |  
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   |
| HU-9<br>HU-10  | 2  | R-22<br>R-22   
  | -   | 95  | 3   | 1.0   | 2.0  | 28.8  
   
   
   
   
   
   
   
   | -   | 407  | 3  | 460-3-60  | yes   |  |  |  |  |   | | | | | | | | | |
   |  |  |   |   |                                     |   |   |   |   |  |  
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   |
|  | 2  |  
  | -   | 95  | 6   | 1.0   | 2.0  | 63.9  
   
   
   
   
   
   
   
   | 17  | 127  | 6  | 460-3-60  | yes   |  |  |  |  |   | | | | | | | | | |
   |  |  |   |   |                                     |   |   |   |   |  |  
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   |
| HU-11  | 2  |  
  | -   | 95  | 4   | 1.0   | 2.0  | 32.2  
   
   
   
   
   
   
   
   | -   | -  | 4  | 460-3-60  | yes   |  |  |  |  |   | | | | | | | | | |
   |  |  |   |   |                                     |   |   |   |   |  |  
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   |
| HU-12  | 2  | ==   
  | -   | 95  | 9   | 1.0   |  | 99.2  
   
   
   
   
   
   
   
   | 39  |  |  | 460-3-60  | yes   |  |  |  |  |   | | | | | | | | | |
   |  |  |   |   |                                     |   |   |   |   |  |  
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| HU-13  | 2  | R-22   
  | -   | 95  | 6   | 1.0   | 2.0  | 63.2  
   
   
   
   
   
   
   
   | 17  | 127  | 6  | 460-3-60  | yes   |  |  |  |  |   | | | | | | | | | |
   |  |  |   |   |                                     |   |   |   |   |  |  
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   |
| HU-14  | 2  | R-22   
  | -   | 95  | 2   | 1.0   | 2.0  | 23.4  
   
   
   
   
   
   
   
   | -   | -  | 2  | 460-3-60  | yes   |  |  |  |  |   | | | | | | | | | |
   |  |  |   |   |                                     |   |   |   |   |  |  
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   |
| lumber   | Number   | Max Face Velocity  
  | Number of Coils   | Rows  | Fins/in   |   | .T. °F   | L.A.T. °  
   
   
   
   
   
   
   
   |   |  | btu/h  | PD (wet) in. H <sub>2</sub> O   | Туре  |  |  |  |  |   | | | | | | | | | |
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   | WB  |  | Sensible   |   |   |  |  |  |  |   | | | | | | | | | |
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   |
|  | CC-1-1   | 366  
  | 1   | 5   | 12  | 71.5  | 59.8   | 47.0  
   
   
   
   
   
   
   
   | 47.0  | 336.0  | 265.1  | 0.49  | DX  |  |  |  |  |   | | | | | | | | | |
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|  | CC-2-1   | 209  
  | 1   | 5   | 12  | 93.0  | 75.0   | 48.3  
   
   
   
   
   
   
   
   | 48.3  | 1092.1   | 622.5  | 0.23  | DX  |  |  |  |  |   | | | | | | | | | |
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   |
|  | CC-3-1   | 276  
  | 1   | 4   | 10  | 84.9  | 67.4   | 46.9  
   
   
   
   
   
   
   
   | 46.9  | 443.8  | 309.6  | 0.22  | DX  |  |  |  |  |   | | | | | | | | | |
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   |
|  | CC-4-1   | 271  
  | 1   | 3   | 10  | 83.2  | 67.0   | 47.2  
   
   
   
   
   
   
   
   | 46.8  | 426.5  | 288.9  | 0.16  | DX  |  |  |  |  |   | | | | | | | | | |
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   |
|  | CC-5-1   | 227  
  | 1   | 5   | 12  | 78.5  | 65.0   | 47.3  
   
   
   
   
   
   
   
   | 47.3  | 210.1  | 143.3  | 0.25  | DX  |  |  |  |  |   | | | | | | | | | |
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| HU-6   | CC-6-1   | 223  
  | 1   | 5   | 12  | 78.7  | 65.4   | 47.4  
   
   
   
   
   
   
   
   | 47.4  | 210.6  | 141.0  | 0.24  | DX  |  |  |  |  |   | | | | | | | | | |
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| AHU-7  | CC-7-1   | 213  
  | 1   | 5   | 12  | 93.0  | 75.0   | 49.0  
   
   
   
   
   
   
   
   | 49.0  | 965.7  | 553.0  | 0.23  | DX  |  |  |  |  |   | | | | | | | | | |
   |  |  |   |   |                                     |   |   |   |   |  |  
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   |
|  | CC-8-1   | 439  
  | 1   | 5   | 12  | 74.8  | 62.0   | 47.1  
   
   
   
   
   
   
   
   | 47.1  | 705.8  | 524.5  | 0.66  | DX  |  |  |  |  |   | | | | | | | | | |
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|  | CC-9-1   | 293  
  | 1   | 4   | 8   | 75.3  | 61.6   | 47.2  
   
   
   
   
   
   
   
   | 46.8  | 316.8  | 243.4  | 0.20  | DX  |  |  |  |  |   | | | | | | | | | |
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   |
|  | CC-10-1  | 525  
  | 1   | 5   | 12  | 78.0  | 65.0   |   
   
   
   
   
   
   
   
   |   | 803.7  | 639.4  | 0.84  | DX  |  |  |  |  |   | | | | | | | | | |
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|  | CC-11-1  |  
  | 1   |   |   |   |  | 54.3  
   
   
   
   
   
   
   
   | 54.2<br>50.7  |  |  |   |   |  |  |  |  |   | | | | | | | | | |
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   |
| AHU-11   | CC-11-1<br>CC-12-1   | 363  
  | 1   | 4   | 10  | 78.0  | 65.0   | 51.0  
   
   
   
   
   
   
   
   | 50.7  | 407.6  | 289.8  | 0.33  | DX  |  |  |  |  |   | | | | | | | | | |
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   |
| HU-11<br>HU-12   | CC-12-1  | 363<br>442   
  | 1   | 4   | 10<br>12  | 78.0<br>78.0  | 65.0<br>65.0   | 51.0<br>50.8  
   
   
   
   
   
   
   
   | 50.7<br>50.7  | 407.6<br>1116.4  | 289.8<br>797.9   | 0.33  | DX<br>DX  |  |  |  |  |   | | | | | | | | | |
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| AHU-11<br>AHU-12<br>AHU-13   | CC-12-1<br>CC-13-1   | 363<br>442<br>403  
  | 1   | 4<br>5<br>5   | 10<br>12<br>12  | 78.0<br>78.0<br>78.0  | 65.0<br>65.0<br>65.0   | 51.0<br>50.8<br>51.2  
   
   
   
   
   
   
   
   | 50.7<br>50.7<br>51.1  | 407.6<br>1116.4<br>770.5   | 289.8<br>797.9<br>556.5  | 0.33<br>0.67<br>0.58  | DX<br>DX<br>DX  |  |  |  |  |   | | | | | | | | | |
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| AHU-11<br>AHU-12<br>AHU-13   | CC-12-1<br>CC-13-1   | 363<br>442   
  | 1<br>1<br>1<br>1  | 4   | 10<br>12  | 78.0<br>78.0  | 65.0<br>65.0   | 51.0<br>50.8  
   
   
   
   
   
   
   
   | 50.7<br>50.7  | 407.6<br>1116.4  | 289.8<br>797.9   | 0.33  | DX<br>DX  |  |  |  |  |   | | | | | | | | | |
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| AHU-11<br>AHU-12<br>AHU-13   | CC-12-1<br>CC-13-1   | 363<br>442<br>403  
  | 1<br>1<br>1<br>1<br>1   | 4<br>5<br>5<br>5  | 10<br>12<br>12<br>12  | 78.0<br>78.0<br>78.0  | 65.0<br>65.0<br>65.0   | 51.0<br>50.8<br>51.2  
   
   
   
   
   
   
   
   | 50.7<br>50.7<br>51.1  | 407.6<br>1116.4<br>770.5   | 289.8<br>797.9<br>556.5  | 0.33<br>0.67<br>0.58  | DX<br>DX<br>DX  |  |  |  |  |   | | | | | | | | | |
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| AHU-11<br>AHU-12<br>AHU-13<br>AHU-14   | CC-12-1<br>CC-13-1<br>CC-14-1  | 363<br>442<br>403<br>213   
  |   | 4<br>5<br>5<br>5  | 10<br>12<br>12<br>12<br>12<br>tural Gas   | 78.0<br>78.0<br>78.0  | 65.0<br>65.0<br>75.0   | 51.0<br>50.8<br>51.2<br>53.1  
   
   
   
   
   
   
   
   | 50.7<br>50.7<br>51.1<br>53.1  | 407.6<br>1116.4<br>770.5   | 289.8<br>797.9<br>556.5  | 0.33<br>0.67<br>0.58  | DX<br>DX<br>DX  |  |  |  |  |   | | | | | | | | | |
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   |
| HU-11<br>HU-12<br>HU-13<br>HU-14   | CC-12-1<br>CC-13-1   | 363<br>442<br>403  
  | Air °F  | 4<br>5<br>5<br>ing - Na   | 10<br>12<br>12<br>12<br>12<br>tural Gas<br>PD in.   | 78.0<br>78.0<br>93.0  | 65.0<br>65.0<br>65.0<br>75.0<br>Natural C  | 51.0<br>50.8<br>51.2<br>53.1<br>Gas   
   
   
   
   
   
   
   
   | 50.7<br>50.7<br>51.1  | 407.6<br>1116.4<br>770.5   | 289.8<br>797.9<br>556.5  | 0.33<br>0.67<br>0.58  | DX<br>DX<br>DX  |  |  |  |  |   | | | | | | | | | |
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| HU-11<br>HU-12<br>HU-13<br>HU-14   | CC-12-1<br>CC-13-1<br>CC-14-1<br>Number  | 363<br>442<br>403<br>213   
  |   | 4<br>5<br>5<br>5  | 10<br>12<br>12<br>12<br>12<br>tural Gas<br>PD in.   | 78.0<br>78.0<br>93.0  | 65.0<br>65.0<br>75.0   | 51.0<br>50.8<br>51.2<br>53.1  
   
   
   
   
   
   
   
   | 50.7<br>50.7<br>51.1<br>53.1  | 407.6<br>1116.4<br>770.5   | 289.8<br>797.9<br>556.5  | 0.33<br>0.67<br>0.58  | DX<br>DX<br>DX  |  |  |  |  |   | | | | | | | | | |
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| HU-11<br>HU-12<br>HU-13<br>HU-14<br>Jumber   | CC-12-1<br>CC-13-1<br>CC-14-1<br>Number<br>PH-1-1  | 363<br>442<br>403<br>213<br>Type   
  | Air °F<br>E.A.T.  | 4<br>5<br>5<br>5<br>ing - Na<br>L.A.T.  | 10<br>12<br>12<br>12<br>12<br>12<br>12<br>tural Gas<br>PD in.<br>H <sub>2</sub> O   | 78.0<br>78.0<br>78.0<br>93.0<br>BTUH Input  | 65.0<br>65.0<br>65.0<br>75.0<br>Natural C<br>BTUH Output   | 51.0<br>50.8<br>51.2<br>53.1<br>Gas Press in. H <sub>2</sub> O  
   
   
   
   
   
   
   
   | 50.7<br>50.7<br>51.1<br>53.1<br>Stages  | 407.6<br>1116.4<br>770.5   | 289.8<br>797.9<br>556.5  | 0.33<br>0.67<br>0.58  | DX<br>DX<br>DX  |  |  |  |  |   | | | | | | | | | |
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| HU-11<br>HU-12<br>HU-13<br>HU-14<br>Number<br>HU-1<br>HU-2   | CC-12-1<br>CC-13-1<br>CC-14-1<br>Number<br>PH-1-1<br>PH-2-1  | 363<br>442<br>403<br>213<br>Type<br>-<br>Preheat   
  | Air °F<br>E.A.T.<br>-<br>0.0  | 4<br>5<br>5<br>5<br>ing - Na<br>L.A.T.<br>57.7  | 10<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12  | 78.0<br>78.0<br>78.0<br>93.0<br>BTUH Input<br>-<br>1000   | 65.0<br>65.0<br>75.0<br>Natural C<br>BTUH Output<br>-<br>800   | 51.0<br>50.8<br>51.2<br>53.1<br>Gas Press in. H <sub>2</sub> O<br>-<br>6.5  
   
   
   
   
   
   
   
   | 50.7<br>50.7<br>51.1<br>53.1<br>Stages  | 407.6<br>1116.4<br>770.5   | 289.8<br>797.9<br>556.5  | 0.33<br>0.67<br>0.58  | DX<br>DX<br>DX  |  |  |  |  |   | | | | | | | | | |
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| HU-11<br>HU-12<br>HU-13<br>HU-14<br>Jumber<br>HU-1<br>HU-2<br>HU-3   | CC-12-1<br>CC-13-1<br>CC-14-1<br>Number<br>PH-1-1<br>PH-2-1<br>PH-3-1  | 363<br>442<br>403<br>213<br>Type<br>-<br>Preheat<br>Preheat  
  | Air °F<br>E.A.T.<br>-<br>0.0<br>24.8  | 4<br>5<br>5<br>5<br>ing - Na<br>L.A.T.<br>57.7<br>55.5  | 10<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12  | 78.0<br>78.0<br>93.0<br>BTUH Input<br>-<br>1000<br>315  | 65.0<br>65.0<br>75.0<br>Natural C<br>BTUH Output<br>-<br>800<br>250  | 51.0<br>50.8<br>51.2<br>53.1<br>Gas<br>Gas Press in. H <sub>2</sub> O<br>-<br>-<br>6.5<br>5.5   
   
   
   
   
   
   
   
   | 50.7<br>50.7<br>51.1<br>53.1<br>Stages<br>-<br>20<br>20<br>20   | 407.6<br>1116.4<br>770.5   | 289.8<br>797.9<br>556.5  | 0.33<br>0.67<br>0.58  | DX<br>DX<br>DX  |  |  |  |  |   | | | | | | | | | |
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| HU-11<br>HU-12<br>HU-13<br>HU-14<br>Jumber<br>HU-1<br>HU-2<br>HU-3<br>HU-4   | CC-12-1<br>CC-13-1<br>CC-14-1<br>Number<br>PH-1-1<br>PH-2-1<br>PH-3-1<br>PH-4-1  | 363<br>442<br>403<br>213<br>Type<br>-<br>Preheat<br>Preheat<br>Preheat   
  | Air °F<br>E.A.T.<br>0.0<br>24.8<br>29.4   | 4<br>5<br>5<br>5<br>ing - Na<br>L.A.T.<br>57.7<br>55.5<br>54.4  | 10<br>12<br>12<br>12<br>12<br>PD in.<br>H <sub>2</sub> O<br>  | 78.0<br>78.0<br>93.0<br>BTUH Input<br>1000<br>315<br>250  | 65.0<br>65.0<br>75.0<br>Natural C<br>BTUH Output<br>-<br>800<br>250<br>200   | 51.0<br>50.8<br>51.2<br>53.1<br>Gas Press in. H <sub>2</sub> O<br>-<br>-<br>6.5.5<br>5.5<br>4.5   
   
   
   
   
   
   
   
   | 50.7<br>50.7<br>51.1<br>53.1<br>Stages<br>20<br>20<br>20<br>20<br>20  | 407.6<br>1116.4<br>770.5   | 289.8<br>797.9<br>556.5  | 0.33<br>0.67<br>0.58  | DX<br>DX<br>DX  |  |  |  |  |   | | | | | | | | | |
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| HU-11<br>HU-12<br>HU-13<br>HU-14<br>Jumber<br>HU-1<br>HU-2<br>HU-3<br>HU-4<br>HU-5   | CC-12-1<br>CC-13-1<br>CC-14-1<br>Number<br>PH-1-1<br>PH-2-1<br>PH-2-1<br>PH-4-1<br>PH-5-1  | 363<br>442<br>403<br>213<br>Type<br>-<br>Preheat<br>Preheat<br>Preheat<br>Preheat  
  | Air °F<br>E.A.T.<br>0.0<br>24.8<br>29.4<br>42.1   | 4<br>5<br>5<br>5<br>ing - Na<br>L.A.T.<br>57.7<br>55.5<br>54.4<br>85.8  | 10<br>12<br>12<br>12<br>PD in.<br>H <sub>2</sub> O<br>0.08<br>0.07<br>0.03<br>0.01  | 78.0<br>78.0<br>93.0<br>BTUH Input<br>-<br>1000<br>315<br>250<br>250  | 65.0<br>65.0<br>75.0<br>BTUH Output<br>-<br>800<br>250<br>200<br>200   | 51.0<br>50.8<br>51.2<br>53.1<br>Gas Press in. H <sub>2</sub> O<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-   
   
   
   
   
   
   
   
   | 50.7<br>50.7<br>51.1<br>53.1<br>Stages<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20  | 407.6<br>1116.4<br>770.5   | 289.8<br>797.9<br>556.5  | 0.33<br>0.67<br>0.58  | DX<br>DX<br>DX  |  |  |  |  |   | | | | | | | | | |
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| HU-11<br>HU-12<br>HU-13<br>HU-14<br>HU-14<br>HU-14<br>HU-1<br>HU-2<br>HU-3<br>HU-4<br>HU-5<br>HU-6   | CC-12-1<br>CC-13-1<br>CC-14-1<br>PH-1-1<br>PH-2-1<br>PH-3-1<br>PH-4-1<br>PH-6-1  | 363<br>442<br>403<br>213<br>Type<br>-<br>Preheat<br>Preheat<br>Preheat<br>Preheat<br>Preheat<br>Preheat  
  | Air °F<br>E.A.T.<br>0.0<br>24.8<br>29.4<br>42.1<br>41.6   | 4<br>5<br>5<br>5<br>1<br>1<br>2<br>5<br>7<br>7<br>5<br>5<br>5<br>4<br>4<br>8<br>5<br>8<br>6.1   | 10<br>12<br>12<br>12<br>tural Gas<br>PD in.<br>H <sub>2</sub> O<br>.0.08<br>0.07<br>0.03<br>0.01<br>0.01  | 78.0<br>78.0<br>93.0<br>BTUH Input<br>-<br>1000<br>315<br>250<br>250<br>250   | 65.0<br>65.0<br>65.0<br>75.0<br>BTUH Output<br>-<br>800<br>250<br>200<br>200<br>200  | 51.0<br>50.8<br>51.2<br>53.1<br>Gas Press in. H <sub>2</sub> O<br>-<br>-<br>6.5.5<br>5.5<br>4.5   
   
   
   
   
   
   
   
   | 50.7<br>50.7<br>51.1<br>53.1<br>Stages<br>-<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20                     | 407.6<br>1116.4<br>770.5<br>289.9  | 289.8<br>797.9<br>556.5  | 0.33<br>0.67<br>0.58  | DX<br>DX<br>DX  |  |  |  |  |   | | | | | | | | | |
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| HU-11<br>HU-12<br>HU-13<br>HU-14<br>HU-14<br>HU-14<br>HU-1<br>HU-2<br>HU-3<br>HU-4<br>HU-5<br>HU-6<br>HU-7   | CC-12-1<br>CC-13-1<br>CC-14-1<br>PH-1-1<br>PH-2-1<br>PH-3-1<br>PH-3-1<br>PH-6-1<br>PH-6-1<br>PH-7-1  | 363<br>442<br>403<br>213<br>Type<br>-<br>Preheat<br>Preheat<br>Preheat<br>Preheat  
  | Air °F<br>E.A.T.<br>0.0<br>24.8<br>29.4<br>42.1   | 4<br>5<br>5<br>5<br>1<br>1<br>2<br>5<br>7<br>7<br>5<br>5<br>5<br>4<br>4<br>8<br>5<br>8<br>6.1   | 10<br>12<br>12<br>12<br>PD in.<br>H <sub>2</sub> O<br>0.08<br>0.07<br>0.03<br>0.01  | 78.0<br>78.0<br>93.0<br>BTUH Input<br>-<br>1000<br>315<br>250<br>250  | 65.0<br>65.0<br>75.0<br>BTUH Output<br>-<br>800<br>250<br>200<br>200   | 51.0<br>50.8<br>51.2<br>53.1<br>Gas Press in. H <sub>2</sub> O<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-   
   
   
   
   
   
   
   
   | 50.7<br>50.7<br>51.1<br>53.1<br>Stages<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20  | 407.6<br>1116.4<br>770.5<br>289.9  | 289.8<br>797.9<br>556.5  | 0.33<br>0.67<br>0.58  | DX<br>DX<br>DX  |  |  |  |  |   | | | | | | | | | |
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| HU-11<br>HU-12<br>HU-13<br>HU-14<br>HU-14<br>HU-14<br>HU-1<br>HU-2<br>HU-3<br>HU-3<br>HU-4<br>HU-5<br>HU-6<br>HU-7<br>HU-8   | CC-12-1<br>CC-13-1<br>CC-14-1<br>PH-1-1<br>PH-2-1<br>PH-2-1<br>PH-2-1<br>PH-2-1<br>PH-2-1<br>PH-2-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-7-1<br>PH-8-1  | 363<br>442<br>403<br>213<br>Type<br>-<br>Preheat<br>Preheat<br>Preheat<br>Preheat<br>Preheat<br>Preheat  
  | Air °F<br>E.A.T.<br>0.0<br>24.8<br>29.4<br>42.1<br>41.6   | 4<br>5<br>5<br>5<br>1<br>1<br>2<br>5<br>7<br>7<br>5<br>5<br>5<br>4<br>4<br>8<br>5<br>8<br>6.1   | 10<br>12<br>12<br>12<br>tural Gas<br>PD in.<br>H <sub>2</sub> O<br>.0.08<br>0.07<br>0.03<br>0.01<br>0.01  | 78.0<br>78.0<br>93.0<br>BTUH Input<br>-<br>1000<br>315<br>250<br>250<br>250   | 65.0<br>65.0<br>65.0<br>75.0<br>BTUH Output<br>-<br>800<br>250<br>200<br>200<br>200  | 51.0<br>50.8<br>51.2<br>53.1<br>Gas Press in. H <sub>2</sub> O<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-   
   
   
   
   
   
   
   
   | 50.7<br>50.7<br>51.1<br>53.1<br>Stages<br>-<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20                     | 407.6<br>1116.4<br>770.5<br>289.9  | 289.8<br>797.9<br>556.5  | 0.33<br>0.67<br>0.58  | DX<br>DX<br>DX  |  |  |  |  |   | | | | | | | | | |
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| HU-11<br>HU-12<br>HU-13<br>HU-14<br>HU-14<br>HU-14<br>HU-1<br>HU-2<br>HU-3<br>HU-3<br>HU-6<br>HU-7<br>HU-8<br>HU-9   | CC-12-1<br>CC-13-1<br>CC-13-1<br>CC-14-1<br>PH-1-1<br>PH-2-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-6-1<br>PH-6-1<br>PH-7-1<br>PH-9-1<br>PH-9-1   | 363<br>442<br>403<br>213<br>Type<br>-<br>Preheat<br>Preheat<br>Preheat<br>Preheat<br>Preheat<br>-<br>-   
  | Air °F<br>E.A.T.<br>  | 4<br>5<br>5<br>5<br>ing - Na<br>5<br>57.7<br>55.5<br>54.4<br>85.8<br>86.1<br>51.9<br>-  | 10<br>12<br>12<br>12<br>H2O<br>D in.<br>H2O<br>0.08<br>0.07<br>0.03<br>0.01<br>0.01<br>0.036  | 78.0<br>78.0<br>93.0<br>93.0<br>93.0<br>93.0<br>93.0<br>93.0<br>93.0<br>93  | 65.0<br>65.0<br>65.0<br>75.0<br>BTUH Output<br>-<br>800<br>200<br>200<br>200<br>200<br>640   | 51.0<br>50.8<br>51.2<br>53.1<br>Gas Press in. H <sub>2</sub> O<br>-<br>-<br>6.5<br>5.5<br>4.5<br>4.5<br>4.5<br>7<br>7<br>-<br>-   
   
   
   
   
   
   
   
   | 50.7<br>50.7<br>51.1<br>53.1<br>Stages<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200                             | 407.6<br>1116.4<br>770.5<br>289.9  | 289.8<br>797.9<br>556.5  | 0.33<br>0.67<br>0.58  | DX<br>DX<br>DX  |  |  |  |  |   | | | | | | | | | |
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| HU-11<br>HU-12<br>HU-13<br>HU-14<br>HU-14<br>HU-14<br>HU-1<br>HU-2<br>HU-3<br>HU-4<br>HU-3<br>HU-4<br>HU-5<br>HU-6<br>HU-7<br>HU-8<br>HU-8<br>HU-9<br>HU-10  | CC-12-1<br>CC-13-1<br>CC-14-1<br>PH-1-1<br>PH-2-1<br>PH-2-1<br>PH-2-1<br>PH-4-1<br>PH-5-1<br>PH-5-1<br>PH-7-1<br>PH-7-1<br>PH-8-1<br>PH-9-1<br>PH-10-1   | 363       442       403       213       Type       -       Preheat       Preheat       Preheat       Preheat       -       -       -       -       -       -       -       -       -       -       -       -       -       -       Preheat   
  | Air °F<br>E.A.T.<br>  | 4<br>5<br>5<br>5<br>ing - Na<br>L.A.T.<br>57.7<br>55.5<br>54.4<br>85.8<br>86.1<br>51.9<br>-<br>79.7   | 10<br>12<br>12<br>12<br>PD in.<br>H <sub>2</sub> O<br>0.08<br>0.07<br>0.03<br>0.01<br>0.01<br>0.01<br>0.36  | 78.0<br>78.0<br>78.0<br>93.0<br>8TUH Input<br>-<br>1000<br>315<br>250<br>250<br>250<br>250<br>800<br>-<br>-<br>-<br>-<br>100  | 65.0<br>65.0<br>65.0<br>75.0<br>BTUH Output<br>-<br>800<br>250<br>200<br>200<br>200<br>200<br>640<br>-<br>-  | 51.0<br>50.8<br>51.2<br>53.1<br>Gas Press in. H <sub>2</sub> O<br>6.5<br>5.5<br>4.5<br>4.5<br>4.5<br>7<br>7<br>7<br>6.5   
   
   
   
   
   
   
   
   | 50.7<br>50.7<br>51.1<br>53.1<br>Stages<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20                       | 407.6<br>1116.4<br>770.5<br>289.9  | 289.8<br>797.9<br>556.5  | 0.33<br>0.67<br>0.58  | DX<br>DX<br>DX  |  |  |  |  |   | | | | | | | | | |
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| kHU-11           kHU-12           kHU-13           kHU-14           vumber           kHU-1           kHU-1           kHU-1           kHU-2           kHU-3           kHU-4           kHU-5           kHU-6           kHU-7           kHU-8           kHU-9           kHU-9           kHU-10           kHU-11   | CC-12-1<br>CC-13-1<br>CC-13-1<br>CC-14-1<br>Number<br>PH-1-1<br>PH-2-1<br>PH-3-1<br>PH-3-1<br>PH-4-1<br>PH-6-1<br>PH-6-1<br>PH-7-1<br>PH-6-1<br>PH-10-1<br>PH-11-1   | 363       442       403       213       Type       -       Preheat   
  | Air °F<br>E.A.T.<br>0.0<br>24.8<br>29.4<br>42.1<br>41.6<br>0.0<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-  | 4<br>5<br>5<br>5<br>ing - Na<br>5<br>5<br>5<br>5<br>5<br>4<br>4<br>85.8<br>86.1<br>5<br>1.9<br>-<br>79.7<br>79.7<br>79.7  | 10<br>12<br>12<br>12<br>PD in.<br>H <sub>2</sub> O<br>  | 78.0<br>78.0<br>78.0<br>93.0<br>93.0<br>8TUH Input<br>1000<br>315<br>250<br>250<br>250<br>250<br>800<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-   | 65.0<br>65.0<br>65.0<br>75.0<br>BTUH Output<br>800<br>250<br>200<br>200<br>200<br>200<br>200<br>0<br>200<br>200<br>200   | 51.0           50.8           51.2           53.1           Gas Press in. H <sub>2</sub> O           -           6.5           4.5           4.5           7           -           6.5           4.5           7           -           6.5           5           5           6.5           5           5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           5           6.5           5  
   
   
   
   
   
   
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50.7<br>50.7<br>51.1<br>53.1<br>Stages<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20                       | 407.6<br>1116.4<br>770.5<br>289.9  | 289.8<br>797.9<br>556.5  | 0.33<br>0.67<br>0.58  | DX<br>DX<br>DX  |  |  |  |  |   |  
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| HU-11<br>HU-12<br>HU-13<br>HU-14<br>HU-14<br>HU-14<br>HU-14<br>HU-2<br>HU-2<br>HU-3<br>HU-4<br>HU-5<br>HU-5<br>HU-6<br>HU-7<br>HU-8<br>HU-7<br>HU-8<br>HU-7<br>HU-8<br>HU-7<br>HU-8<br>HU-11<br>HU-11<br>HU-11<br>HU-12  | CC-12-1<br>CC-13-1<br>CC-13-1<br>CC-14-1<br>PH-1-1<br>PH-2-1<br>PH-2-1<br>PH-2-1<br>PH-3-1<br>PH-7-1<br>PH-8-1<br>PH-9-1<br>PH-10-1<br>PH-10-1<br>PH-12-1  | 363<br>442<br>403<br>213<br>Type<br>-<br>Preheat<br>Preheat<br>Preheat<br>Preheat<br>Preheat<br>Preheat<br>Preheat<br>Preheat<br>Preheat<br>Preheat<br>Preheat<br>Preheat  
  | Air °F<br>E.A.T.<br>0.00<br>24.8<br>29.4<br>42.1<br>41.6<br>0.0<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | 4<br>5<br>5<br>5<br>5<br>1<br>1<br>2<br>7<br>7<br>7<br>7<br>9<br>7<br>9<br>7<br>9<br>7<br>9<br>7<br>9<br>7<br>9<br>7<br>9<br>7<br>9   | 10<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>0.03<br>0.01<br>0.03<br>0.01<br>0.03<br>0.01<br>0.030<br>0.30<br>0.   | 78.0<br>78.0<br>93.0<br>93.0<br>93.0<br>93.0<br>1000<br>315<br>250<br>250<br>250<br>250<br>800<br>-<br>100<br>500<br>500  | 65.0<br>65.0<br>65.0<br>75.0<br>BTUH Output<br>-<br>800<br>250<br>200<br>200<br>200<br>640<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                | 51.0           50.8           51.2           53.1           Gas Press in. H <sub>2</sub> O           6.5           5.5           4.5           7           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5  
   
   
   
   
   
   
   
   | 50.7<br>50.7<br>51.1<br>53.1<br>Stages<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20                       | 407.6<br>1116.4<br>770.5<br>289.9  | 289.8<br>797.9<br>556.5  | 0.33<br>0.67<br>0.58  | DX<br>DX<br>DX  |  |  |  |  |   | | | | | | | | | |
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| xHU-11           xHU-12           xHU-13           xHU-14           yumber           xHU-1           xHU-14           yumber           xHU-1           xHU-14           yumber           xHU-1           xHU-2           xHU-3           xHU-4           xHU-5           xHU-7           xHU-8           xHU-9           xHU-10           xHU-12           xHU-12  | CC-12-1<br>CC-13-1<br>CC-14-1<br>PH-1-1<br>PH-2-1<br>PH-2-1<br>PH-3-1<br>PH-4-1<br>PH-5-1<br>PH-5-1<br>PH-7-1<br>PH-7-1<br>PH-7-1<br>PH-7-1<br>PH-10-1<br>PH-11-1<br>PH-12-1<br>PH-13-1  | 363       442       403       213       Type       -       Preheat   
  | Air °F<br>E.A.T.<br>0.0<br>24.8<br>29.4<br>42.1<br>41.6<br>0.0<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-  | 4<br>5<br>5<br>5<br>5<br>1<br>1<br>2<br>3<br>5<br>5<br>5<br>5<br>4<br>4<br>8<br>5<br>8<br>8<br>6<br>6<br>1<br>5<br>1.9<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-     | 10<br>12<br>12<br>12<br>PD in.<br>H <sub>2</sub> O<br>  | 78.0<br>78.0<br>78.0<br>93.0<br>93.0<br>8TUH Input<br>1000<br>315<br>250<br>250<br>250<br>250<br>800<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-   | 65.0<br>65.0<br>65.0<br>75.0<br>BTUH Output<br>800<br>250<br>200<br>200<br>200<br>200<br>200<br>0<br>200<br>200<br>200   | 51.0           50.8           51.2           53.1           Gas Press in. H <sub>2</sub> O           -           6.5           4.5           4.5           7           -           6.5           4.5           7           -           6.5           5           5           6.5           5           5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           5  
   
   
   
   
   
   
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50.7<br>50.7<br>51.1<br>53.1<br>Stages<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20                       | 407.6<br>1116.4<br>770.5<br>289.9  | 289.8<br>797.9<br>556.5  | 0.33<br>0.67<br>0.58  | DX<br>DX<br>DX  |  |  |  |  |   |  
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| HU-11<br>HU-12<br>HU-13<br>HU-14<br>HU-14<br>HU-14<br>HU-14<br>HU-14<br>HU-2<br>HU-2<br>HU-3<br>HU-4<br>HU-5<br>HU-5<br>HU-5<br>HU-5<br>HU-7<br>HU-7<br>HU-7<br>HU-7<br>HU-7<br>HU-7<br>HU-7<br>HU-7   | CC-12-1<br>CC-13-1<br>CC-14-1<br>PH-1-1<br>PH-2-1<br>PH-2-1<br>PH-3-1<br>PH-4-1<br>PH-5-1<br>PH-5-1<br>PH-7-1<br>PH-7-1<br>PH-7-1<br>PH-7-1<br>PH-10-1<br>PH-11-1<br>PH-12-1<br>PH-13-1  | 363<br>442<br>403<br>213<br>Type<br>-<br>Preheat<br>Preheat<br>Preheat<br>Preheat<br>Preheat<br>Preheat<br>Preheat<br>Preheat<br>Preheat<br>Preheat<br>Preheat<br>Preheat  
  | Air °F<br>E.A.T.<br>0.00<br>24.8<br>29.4<br>42.1<br>41.6<br>0.0<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | 4<br>5<br>5<br>5<br>5<br>1<br>1<br>2<br>7<br>7<br>7<br>7<br>9<br>7<br>9<br>7<br>9<br>7<br>9<br>7<br>9<br>7<br>9<br>7<br>9<br>7<br>9   | 10<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>0.03<br>0.01<br>0.03<br>0.01<br>0.03<br>0.01<br>0.030<br>0.30<br>0.   | 78.0<br>78.0<br>93.0<br>93.0<br>93.0<br>93.0<br>1000<br>315<br>250<br>250<br>250<br>250<br>800<br>-<br>100<br>500<br>500  | 65.0<br>65.0<br>65.0<br>75.0<br>BTUH Output<br>-<br>800<br>250<br>200<br>200<br>200<br>640<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                | 51.0           50.8           51.2           53.1           Gas Press in. H <sub>2</sub> O           6.5           5.5           4.5           7           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5  
   
   
   
   
   
   
   
   | 50.7<br>50.7<br>51.1<br>53.1<br>Stages<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20                       | 407.6<br>1116.4<br>770.5<br>289.9  | 289.8<br>797.9<br>556.5  | 0.33<br>0.67<br>0.58  | DX<br>DX<br>DX  |  |  |  |  |   | | | | | | | | | |
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| AHU-11<br>AHU-12<br>AHU-13<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-2<br>AHU-3<br>AHU-4<br>AHU-5<br>AHU-6<br>AHU-6<br>AHU-6<br>AHU-6<br>AHU-7<br>AHU-8<br>AHU-7<br>AHU-8<br>AHU-7<br>AHU-8<br>AHU-10<br>AHU-12<br>AHU-12<br>AHU-12<br>AHU-13   | CC-12-1<br>CC-13-1<br>CC-14-1<br>PH-1-1<br>PH-2-1<br>PH-2-1<br>PH-3-1<br>PH-4-1<br>PH-5-1<br>PH-5-1<br>PH-7-1<br>PH-7-1<br>PH-7-1<br>PH-7-1<br>PH-10-1<br>PH-11-1<br>PH-12-1<br>PH-13-1  | 363         442         403         213         Type         -         Preheat   
                              | Air °F<br>E.A.T.<br>0.0<br>24.8<br>29.4<br>42.1<br>41.6<br>0.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.0<br>0<br>50.0                                       | 4<br>5<br>5<br>5<br>5<br>1<br>1<br>2<br>3<br>5<br>5<br>5<br>5<br>4<br>4<br>8<br>5<br>8<br>8<br>6<br>6<br>1<br>5<br>1.9<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-     | 10<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>0.03<br>0.01<br>0.03<br>0.01<br>0.03<br>0.01<br>0.030<br>0.30<br>0.   | 78.0<br>78.0<br>93.0<br>93.0<br>93.0<br>93.0<br>1000<br>315<br>250<br>250<br>250<br>250<br>800<br>-<br>100<br>500<br>500  | 65.0<br>65.0<br>65.0<br>75.0<br>BTUH Output<br>-<br>800<br>250<br>200<br>200<br>200<br>640<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                | 51.0           50.8           51.2           53.1           Gas Press in. H <sub>2</sub> O           6.5           4.5           4.5           7           -           6.5           5           4.5           5           6.5           5           6.5           5           5           5           5           5           5           5           5           5           5           5           5  
   
   
   
   
   
   
   | 50.7<br>50.7<br>51.1<br>53.1<br>Stages<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20                       | 407.6<br>1116.4<br>770.5<br>289.9   
  | 289.8<br>797.9<br>556.5  | 0.33<br>0.67<br>0.58  | DX<br>DX<br>DX  |  |  |  |  |   | | | | | | | |
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| AHU-11           AHU-12           AHU-13           AHU-13           AHU-14           Number           AHU-1           AHU-14           AHU-14           AHU-14           AHU-14           AHU-14           AHU-2           AHU-3           AHU-4           AHU-5           AHU-6           AHU-7           AHU-8           AHU-9           AHU-10           AHU-112           AHU-12           AHU-13           AHU-14   | CC-12-1<br>CC-13-1<br>CC-14-1<br>PH-1-1<br>PH-2-1<br>PH-2-1<br>PH-3-1<br>PH-4-1<br>PH-5-1<br>PH-5-1<br>PH-7-1<br>PH-7-1<br>PH-7-1<br>PH-7-1<br>PH-10-1<br>PH-11-1<br>PH-12-1<br>PH-13-1  | 363       442       403       213       Type       -       Preheat       Preheat       Preheat       Preheat       -       Preheat   
  | Air °F<br>E.A.T.<br>0.00<br>244.8<br>29.4<br>42.1<br>41.6<br>0.00<br>50.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.0   | 4<br>4<br>5<br>5<br>5<br>5<br>5<br>4<br>4<br>5<br>5<br>5<br>5<br>5<br>4<br>4<br>8<br>6<br>1<br>9<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-   | 10<br>12<br>12<br>12<br>PD in.<br>H <sub>2</sub> O<br>0.08<br>0.07<br>0.03<br>0.01<br>0.36<br>0.30<br>0.30<br>0.35<br>0.18<br>0.06  | 78.0<br>78.0<br>93.0<br>93.0<br>93.0<br>93.0<br>1000<br>315<br>250<br>250<br>250<br>250<br>800<br>-<br>100<br>500<br>500  | 65.0<br>65.0<br>65.0<br>75.0<br>BTUH Output<br>-<br>800<br>250<br>200<br>200<br>200<br>640<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                | 51.0           50.8           51.2           53.1           Gas Press in. H <sub>2</sub> O           -           6.5           4.5           4.5           4.5           6.5           4.5           5.5           4.5           5.5           4.5           5.5           4.5           5.5  
   
   
   
   
   
   
   | 50.7<br>50.7<br>51.1<br>53.1<br>Stages<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20   
                   | 407.6<br>1116.4<br>770.5<br>289.9  | 289.8<br>797.9<br>556.5<br>172.0   | 0.33<br>0.67<br>0.58<br>0.23  | DX<br>DX<br>DX<br>DX  |  |  |  |  |   | | | | | | | | | | |
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| AHU-11           AHU-12           AHU-13           AHU-13           AHU-14           Number           AHU-1           AHU-14           AHU-14           AHU-14           AHU-14           AHU-14           AHU-2           AHU-3           AHU-4           AHU-5           AHU-6           AHU-7           AHU-8           AHU-9           AHU-10           AHU-112           AHU-12           AHU-13           AHU-14   | CC-12-1<br>CC-13-1<br>CC-13-1<br>CC-14-1<br>PH-2-1<br>PH-2-1<br>PH-2-1<br>PH-3-1<br>PH-4-1<br>PH-5-1<br>PH-5-1<br>PH-7-1<br>PH-7-1<br>PH-9-1<br>PH-10-1<br>PH-10-1<br>PH-13-1<br>PH-13-1<br>PH-14-1  | 363       442       403       213       Type       -       Preheat       Pr  
  | Air °F<br>E.A.T.<br>0.00<br>24.8<br>29.4<br>42.1<br>41.6<br>0.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.                                    | 44<br>55<br>55<br>55<br>55<br>57.7.7<br>55.5<br>54.4<br>86.1<br>51.9<br>79.7<br>79.7<br>79.7<br>79.7<br>79.7<br>79.7<br>79.7<br>7   | 10<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>0.03<br>0.01<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03  | 78.0<br>78.0<br>78.0<br>93.0<br>93.0<br>93.0<br>93.0<br>93.0<br>1000<br>1000<br>13757<br>1000<br>315  | 65.0<br>65.0<br>65.0<br>75.0<br>BTUH Output<br>- 800<br>200<br>200<br>200<br>200<br>640<br><br>800<br>400<br>1100<br>800<br>250  | 51.0           50.8           51.2           53.1           Gas Press in. H <sub>2</sub> O           -           6.5           4.5           4.5           7           -           6.5.5           4.5           7           -           6.5.5           5           5           5           5           5           5           5           6.5.5           7           -           -           -           6.5.5           5           5           5           5           6.5.5  
   
   
   
   
   
   
   | 50.7<br>50.7<br>51.1<br>53.1<br>Stages<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20                       | 407.6<br>1116.4<br>770.5<br>289.9   
  | 289.8<br>797.9<br>556.5<br>172.0   | 0.33<br>0.67<br>0.58<br>0.23  | DX<br>DX<br>DX  |  |  |  |  |   | | | | | | | |
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| HU-11<br>HU-12<br>HU-13<br>HU-14<br>HU-14<br>HU-14<br>HU-2<br>HU-2<br>HU-2<br>HU-2<br>HU-2<br>HU-2<br>HU-2<br>HU-2   | CC-12-1<br>CC-13-1<br>CC-13-1<br>CC-14-1<br>PH-1-1<br>PH-2-1<br>PH-2-1<br>PH-3-1<br>PH-3-1<br>PH-7-1<br>PH-7-1<br>PH-9-1<br>PH-10-1<br>PH-10-1<br>PH-13-1<br>PH-12-1<br>PH-12-1<br>PH-13-1<br>PH-14-1<br>Number  | 363       442       403       213       Type       -       Preheat   
  | Air °F<br>E.A.T.<br>0.0<br>24.8<br>29.4<br>42.1<br>41.6<br>0.0<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-  | 44<br>55<br>55<br>56<br>100 - Na<br>57.7<br>57.5<br>56.4.4<br>86.1.9<br>-<br>-<br>79.7<br>79.7<br>79.7<br>79.7<br>79.7<br>79.7<br>79.   | 10<br>12<br>12<br>12<br>H2O<br>0.08<br>0.07<br>0.03<br>0.01<br>0.04<br>0.03<br>0.01<br>0.30<br>0.30<br>0.35<br>0.35<br>0.18<br>0.06<br>1.42O<br>Final   | 78.0<br>78.0<br>78.0<br>93.0<br>93.0<br>93.0<br>93.0<br>1000<br>1000<br>500<br>500<br>500<br>13757<br>1000<br>315   | 65.0<br>65.0<br>65.0<br>75.0<br>BTUH Output<br>- 800<br>250<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>2   | 51.0           50.8           51.2           53.1           Gas Press in. H <sub>2</sub> O           6.5           4.5           4.5           7           6.5           55           6.5           5           6.5           5           6.5           5           6.5           7           -           6.5           5           6.5           5           6.5           7           -           6.5           5           6.5           5           6.5           7           -           6.5           5           6.5           7           6.5           6.5           7           6.5           7           6.5           7           6.5           6.5           6.5           6.5           6.5           6.5           6.  
   
   
   
   
   
   
   | 50.7<br>50.7<br>51.1<br>53.1<br>Stages<br>-<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>2                   | 407.6<br>1116.4<br>770.5<br>289.9<br>0<br>Final                             
  | 289.8<br>797.9<br>556.5<br>172.0<br>Vibra  | 0.33<br>0.67<br>0.23<br>0.23<br>tion Isolation  | DX<br>DX<br>DX<br>DX<br>Basis Of Design   |  |  |  |  |   | | | | | | | | | | |
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  | 363       442       403       213       Type       -       Preheat   
  | Air °F<br>E.A.T.<br>0.0.0<br>244.8<br>29.4<br>42.1<br>41.6<br>0.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.                                  | 44<br>55<br>55<br>55<br>55<br>57.7.7<br>55.5<br>54.4<br>86.1<br>51.9<br>79.7<br>79.7<br>79.7<br>79.7<br>79.7<br>79.7<br>79.7<br>7   | 10<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12  | 78.0<br>78.0<br>78.0<br>93.0<br>93.0<br>93.0<br>93.0<br>1000<br>315<br>250<br>250<br>800<br>-<br>0<br>250<br>800<br>-<br>0<br>1000<br>315<br>-<br>1000<br>315<br>-<br>1000<br>315<br>-<br>1000<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>50<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>50<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>5<br>-<br>5 | 65.0<br>65.0<br>65.0<br>75.0<br>BTUH Output<br>- 800<br>200<br>200<br>200<br>200<br>640<br><br>800<br>400<br>1100<br>800<br>250  | 51.0           50.8           51.2           53.1           Gas Press in. H <sub>2</sub> O           -           6.5           4.5           4.5           4.5           6.5           4.5           7           -           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5.5           5.5           6.5           6.5           5.5           6.5           6.5           6.5           95   
   
   
   
   
   
   
   | 50.7<br>50.7<br>51.1<br>53.1<br>Stages<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20                       | 407.6<br>1116.4<br>770.5<br>289.9<br>0<br>Final   
  | 289.8<br>797.9<br>556.5<br>172.0   | 0.33<br>0.67<br>0.58<br>0.23<br>tion Isolation<br>Defl in inches<br>2   | DX<br>DX<br>DX<br>DX<br>DX<br>McQuay Model RPS030C  |  |  |  |  |   | | | | | | | | | | |
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| 田上112<br>田上112<br>田上112<br>田田111<br>田田111<br>田田1111<br>日日11111<br>日日1111111111   | CC-12-1<br>CC-13-1<br>CC-13-1<br>CC-14-1<br>PH-2-1<br>PH-2-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-10-1<br>PH-10-1<br>PH-10-1<br>PH-10-1<br>PH-11-1<br>PH-12-1<br>PH-13-1<br>PH-14-1<br>PH-14-1<br>PH-14-1   | 363       442       403       213       Type       -       Preheat   
  | Air °F<br>E.A.T.<br>0.0.<br>24.8<br>29.4<br>42.1<br>41.6<br>0.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.0<br>(ASHRAE)<br>30<br>30                   | 44<br>55<br>55<br>56<br>100 - Na<br>57.7<br>57.5<br>56.4.4<br>86.1.9<br>-<br>-<br>79.7<br>79.7<br>79.7<br>79.7<br>79.7<br>79.7<br>79.   | 10<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12  | 78.0<br>78.0<br>78.0<br>93.0<br>93.0<br>93.0<br>93.0<br>1000<br>1000<br>500<br>500<br>500<br>13757<br>1000<br>315   | 65.0<br>65.0<br>65.0<br>75.0<br>BTUH Output<br>- 800<br>250<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>2   | 51.0           50.8           51.2           53.1           Gas Press in, H <sub>2</sub> O           6.5           6.5           4.5           4.5           6.5  
   
   
   
   
   
   
   | 50.7<br>50.7<br>51.1<br>53.1<br>Stages<br>-<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>2                   | 407.6<br>1116.4<br>770.5<br>289.9<br>0<br>Final                             
  | 289.8<br>797.9<br>556.5<br>172.0<br>Type<br>Spring   | 0.33<br>0.67<br>0.23<br>0.23<br>tion Isolation  | DX<br>DX<br>DX<br>DX<br>DX<br>DX<br>McQuay Model RPS030C<br>McQuay Model RPS030C  |  |  |  |  |   | | | | | | | | | | |
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| HU-112<br>HU-12<br>HU-13<br>HU-14<br>HU-14<br>HU-14<br>HU-14<br>HU-2<br>HU-2<br>HU-2<br>HU-2<br>HU-2<br>HU-2<br>HU-2<br>HU-2   | CC-12-1<br>CC-13-1<br>CC-13-1<br>CC-14-1<br>Number<br>PH-1-1<br>PH-2-1<br>PH-3-1<br>PH-3-1<br>PH-4-1<br>PH-5-1<br>PH-6-1<br>PH-7-1<br>PH-7-1<br>PH-10-1<br>PH-10-1<br>PH-10-1<br>PH-11-1<br>PH-11-1<br>PH-12-1<br>PH-14-1<br>Number<br>F-1-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1   | 363       442       403       213       Type       -       Preheat   
  | Air °F<br>E.A.T.<br>0.0.<br>244.8<br>29.4<br>42.1<br>41.6<br>0.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.                                   | 44<br>55<br>55<br>1019 - Na<br>57.7<br>55.5<br>4.4<br>85.8<br>86.1<br>51.9<br>-<br>79.7<br>79.7<br>79.7<br>79.7<br>79.7<br>79.7<br>79.7   | 10<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>0.07<br>0.03<br>0.07<br>0.03<br>0.01<br>0.03<br>0.01<br>0.36<br>0.30<br>0.30<br>0.30<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.36<br>0.44<br>0.44<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24 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78.0<br>78.0<br>78.0<br>93.0<br>93.0<br>93.0<br>93.0<br>1000<br>315<br>250<br>250<br>800<br>-<br>0<br>250<br>800<br>-<br>0<br>1000<br>315<br>-<br>1000<br>315<br>-<br>1000<br>315<br>-<br>1000<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>50<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>50<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>500<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>50<br>-<br>5<br>-<br>5 | 65.0<br>65.0<br>65.0<br>75.0<br>BTUH Output<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-   | 51.0           50.8           51.2           53.1           Gas Press in. H <sub>2</sub> O           -           6.5           4.5           4.5           4.5           6.5           4.5           7           -           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5.5           5.5           6.5           6.5           5.5           6.5           6.5           6.5           95   
   
   
   
   
   
   
   | 50.7<br>50.7<br>51.1<br>53.1<br>Stages<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20                       | 407.6<br>1116.4<br>770.5<br>289.9<br>289.9  
  | 289.8<br>797.9<br>556.5<br>172.0<br>Type<br>Spring   | 0.33<br>0.67<br>0.58<br>0.23<br>tion Isolation<br>Defl in inches<br>2   | DX<br>DX<br>DX<br>DX<br>DX<br>McQuay Model RPS030C  |  |  |  |  |   | | | | | | | | | | |
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| 田上112<br>田上112<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田111<br>田田1111<br>田田1111<br>田田1111<br>田田1111<br>田田1111<br>田田1111<br>田田1111<br>田田1111<br>田田1111<br>田田1111<br>田田1111<br>田田1111<br>田田1111<br>田田1111<br>田田1111<br>田田1111<br>田田1111<br>田田1111<br>田田1111<br>田田1111<br>田田1111<br>田田1111<br>田田1111<br>田田1111<br>田田1111<br>田田1111<br>田田1111<br>田田1111<br>田田1111<br>田田1111<br>田田1111<br>田田1111<br>田田1111<br>田田1111<br>田田1111<br>田田1111<br>田田1111<br>田田1111<br>田田1111<br>田田1111<br>田田1111<br>田田1111<br>田田1111<br>田田1111<br>田田1111<br>田田1111<br>田田1111<br>田田1111<br>田田11111<br>田田11111<br>田田11111<br>田田11111<br>田田11111<br>田田11111<br>田田11111<br>田田11111<br>田田11111<br>田田11111<br>田田11111<br>田田11111<br>田田11111<br>田田11111<br>田田111111<br>田田111111<br>田田111111<br>田田111111<br>田田1111111<br>田田1111111<br>田田11111111   | CC-12-1<br>CC-13-1<br>CC-13-1<br>CC-14-1<br>Number<br>PH-1-1<br>PH-2-1<br>PH-3-1<br>PH-3-1<br>PH-4-1<br>PH-5-1<br>PH-6-1<br>PH-7-1<br>PH-7-1<br>PH-10-1<br>PH-10-1<br>PH-10-1<br>PH-11-1<br>PH-11-1<br>PH-12-1<br>PH-14-1<br>Number<br>F-1-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1   | 363       442       403       213       Type       -       Preheat       Catridge       Catridge   
  | Air °F<br>E.A.T.<br>0.0.<br>24.8<br>29.4<br>42.1<br>41.6<br>0.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.0<br>(ASHRAE)<br>30<br>30                   | 4<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5  | 10<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12  | 78.0<br>78.0<br>78.0<br>93.0<br>93.0<br>93.0<br>93.0<br>1000<br>315<br>250<br>250<br>250<br>250<br>250<br>250<br>800<br>100<br>1375<br>1000<br>1375<br>1000<br>1375<br>1000<br>1375<br>F-1-2<br>F-2-2   | 65.0<br>65.0<br>65.0<br>75.0<br>BTUH Output<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-   | 51.0           50.8           51.2           53.1           Gas Press in, H <sub>2</sub> O           6.5           6.5           4.5           4.5           6.5  
   
   
   
   
   
   
   | 50.7<br>50.7<br>51.1<br>53.1<br>Stages<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20                       |
407.6<br>1116.4<br>289.9<br>0<br>Final<br>0.98<br>0.38<br>0.80   | 289.8<br>797.9<br>556.5<br>172.0<br>172.0<br>5pring<br>Spring<br>Spring  | 0.33<br>0.67<br>0.58<br>0.23<br>tion Isolation<br><u>Deff in inches</u><br>2<br>2   | DX<br>DX<br>DX<br>DX<br>DX<br>DX<br>McQuay Model RPS030C<br>McQuay Model RPS030C  |  |  |  |  |   |  
  |  |  |   |   |                                     |   |   |   |   |  | | | | | | | | | |
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                              | Air °F<br>E.A.T.<br>0.00<br>244.8<br>29.4<br>421.1<br>41.6<br>0.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.                                  | 4<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7  | 10<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12  | 78.0<br>78.0<br>78.0<br>93.0<br>93.0<br>93.0<br>93.0<br>250<br>250<br>250<br>250<br>250<br>800<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-   | 65.0<br>65.0<br>65.0<br>75.0<br>BTUH Output<br>0<br>250<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>2   | 51.0           50.8           51.2           53.1           Gas Press in. H <sub>2</sub> O           -           6.5           4.5           4.5           7           -           6.5           4.5           7           -           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           95           95           95           95           95   
   
   
   
   
   
   
   | 50.7<br>50.7<br>51.1<br>53.1<br>Stages<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20                       | 407.6.1<br>1116.4<br>770.5<br>289.9<br>Final<br>0.98<br>0.38<br>0.60<br>0.60  
  | Vibra<br>Type<br>Spring<br>Spring<br>Spring<br>Spring  | 0.33<br>0.67<br>0.58<br>0.23<br>0.23<br>tion Isolation<br>Deff in inches<br>2<br>2<br>2<br>2<br>2<br>2  | DX<br>DX<br>DX<br>DX<br>DX<br>DX<br>MCQuay Model RPS030C<br>McQuay Model RPS030C<br>McQuay Model RPS040C<br>McQuay Model RPS040C  |  |  |  |  |   | | | | | | | |
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田上112<br>田辺213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田113<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213<br>田213 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  | 363       442       403       213       Type       -       Preheat       Cartridge   
  | Air °F<br>E.A.T.<br>0.00<br>24.8<br>29.4<br>42.1<br>41.6<br>0.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.                                    | 44<br>55<br>55<br>55<br>56<br>4.4<br>45.8<br>86.1<br>51.9<br>79.7<br>79.7<br>79.7<br>79.7<br>79.7<br>79.7<br>79.7<br>7  | 10<br>12<br>12<br>12<br>12<br>PD in.<br>H <sub>2</sub> O<br>0.08<br>0.07<br>0.03<br>0.01<br>0.04<br>0.30<br>0.35<br>0.06<br>0.35<br>0.06<br>0.35<br>0.06<br>0.06<br>0.06<br>0.06<br>0.06<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0 | 78.0<br>78.0<br>78.0<br>93.0<br>93.0<br>93.0<br>93.0<br>93.0<br>93.0<br>93.0<br>93  | 65.0<br>65.0<br>65.0<br>75.0<br>BTUH Output<br>- 800<br>250<br>200<br>200<br>200<br>200<br>640<br><br>-<br>800<br>400<br>1100<br>800<br>250<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>2 | 51.0           50.8           51.2           53.1           Gas Press in. H <sub>2</sub> O           6.5           4.5           4.5           7           -           6.5           5.5           4.5           7.5           6.5           5           6.5           7           -           6.5           5           6.5           7           -           6.5           5           6.5           95   
   
   
   
   
   
   
   | 50.7<br>50.7<br>51.1<br>53.1<br>Stages<br>-<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>2                   | 407.6<br>1116.4<br>770.5<br>289.9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9                           
  | 289.8<br>797.9<br>556.5<br>172.0<br>172.0<br>5ping<br>Spring<br>Spring<br>Spring<br>Spring   | 0.33<br>0.67<br>0.58<br>0.23<br>0.23<br>tion Isolation<br>Defl in inches<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2  | DX<br>DX<br>DX<br>DX<br>DX<br>DX<br>MCQuay Model RPS030C<br>McQuay Model RPS030C<br>McQuay Model RPS040C<br>McQuay Model RPS040C<br>McQuay Model RPS040C<br>McQuay Model RPS040C  |  |  |  |  |   | | | | | | | | | | |
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| 出した<br>出した<br>出した<br>出した<br>出した<br>出した<br>出した<br>出した   | CC-12-1<br>CC-13-1<br>CC-13-1<br>CC-14-1<br>Number<br>PH-1-1<br>PH-2-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-10-1<br>PH-11-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-14-1<br>PH-14-1<br>PH-14-1<br>PH-14-1<br>PH-14-1<br>PH-15-1<br>PH-14-1<br>PH-15-1<br>PH-14-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1<br>PH-15-1  | 363       442       403       213       Type       -       Preheat       Cartridge       Cartridge       Cartridge       Cartridge       Cartridge       Cartridge       Cartridge       Cartridge       Cartridge   
  | Air °F<br>E.A.T.<br>0.0.<br>244.8<br>29.4<br>42.1<br>41.6<br>0.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.                                   | 445<br>55555<br>5555555555555555555555555555  | 10<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12  | 78.0<br>78.0<br>78.0<br>93.0<br>93.0<br>93.0<br>93.0<br>1000<br>315<br>250<br>250<br>250<br>250<br>250<br>250<br>250<br>250<br>250<br>25  | 65.0<br>65.0<br>65.0<br>75.0<br>BTUH Output<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-   | 51.0           50.8           51.2           53.1           Gas Press in. H <sub>2</sub> O           -           6.5           4.5           4.5           4.5           6.5           4.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5.5           6.5           5.5           6.5           5.5           6.5           5.5           6.5           95           95           95           95           95           95           95           95 <tr <="" td=""><td>50.7<br/>50.7<br/>51.1<br/>53.1<br/>Stages<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>20</td><td>407.6.1<br/>1116.4<br/>770.5<br/>289.9<br/>Final<br/>0.98<br/>0.98<br/>0.98<br/>0.98<br/>0.60<br/>0.024</td><td>289.8<br/>797.9<br/>556.5<br/>172.0<br/>172.0<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring</td><td>0.33<br/>0.67<br/>0.58<br/>0.23<br/>0.23<br/>0.23<br/>0.23<br/>0.23<br/>0.23<br/>0.23<br/>0.23</td><td>DX<br/>DX<br/>DX<br/>DX<br/>DX<br/>MCUay Model RPS030C<br/>McQuay Model RPS040C<br/>McQuay Model RPS040C<br/>McQuay Model RPS040C<br/>McQuay Model RPS040C<br/>McQuay Model RPS040C<br/>McQuay Model RPS040C<br/>McQuay Model RPS040C</td></tr> <tr><td>HU-111           HU-121           HU-131           HU-13           HU-14           Number           HU-15           HU-14           HU-14           HU-15           HU-14           HU-15           HU-14           HU-15           HU-14           HU-15           HU-15           HU-16           HU-17           HU-18           HU-111           HU-112           HU-112           HU-114           HU-112           HU-112           HU-112           HU-114           HU-14           HU-14           HU-14           HU-14           HU-14           HU-14          
HU-14</td><td>CC-12-1<br/>CC-13-1<br/>CC-13-1<br/>CC-13-1<br/>CC-14-1<br/>PH-1-1<br/>PH-2-1<br/>PH-2-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-7-1<br/>PH-7-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-13-1<br/>PH-11-1<br/>PH-12-1<br/>PH-11-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-11-1<br/>PH-12-1<br/>PH-12-1<br/>PH-11-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-11-1<br/>PH-12-1<br/>PH-12-1<br/>PH-11-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12-1<br/>PH-12</td><td>363       442       403       213       Type       -       Preheat       Cartridge       Cartridge</td><td>Air °F<br/>E.A.T.<br/>0.0.<br/>24.8<br/>29.4<br/>42.1<br/>41.6<br/>0.0<br/>50.0<br/>50.0<br/>50.0<br/>50.0<br/>50.0<br/>50.0<br/>50.</td><td>4455<br/>555555555555555555555555555555555</td><td>10<br/>12<br/>12<br/>12<br/>12<br/>12<br/>PD in.<br/>H<sub>2</sub>O<br/>0.03<br/>0.01<br/>0.36<br/>0.35<br/>0.35<br/>0.35<br/>0.36<br/>0.35<br/>0.36<br/>0.35<br/>0.36<br/>0.35<br/>0.36<br/>0.35<br/>0.36<br/>0.35<br/>0.36<br/>0.35<br/>0.36<br/>0.35<br/>0.36<br/>0.35<br/>0.36<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.3</td><td>78.0<br/>78.0<br/>78.0<br/>93.0<br/>93.0<br/>93.0<br/>93.0<br/>93.0<br/>93.0<br/>93.0<br/>93</td><td>65.0<br/>65.0<br/>65.0<br/>75.0<br/>BTUH Output<br/>- 800<br/>250<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>2</td><td>51.0           50.8           51.2           53.1           Gas Press in, H<sub>2</sub>O           6.5           6.5           4.5           4.5           6.5           7           95           95           95           95           95           95           95           95           95           95           95           95           95</td><td>50.7<br/>50.7<br/>51.1<br/>53.1<br/>Stages<br/>-<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>2</td><td>407.6.<br/>1116.4<br/>1770.5<br/>289.9</td><td>Vibra<br/>Type<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring</td><td>0.33<br/>0.67<br/>0.58<br/>0.23<br/>0.23<br/>tion Isolation<br/>Defi in inches<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2</td><td>DX<br/>DX<br/>DX<br/>DX<br/>DX<br/>DX<br/>MCUay Model RPS030C<br/>MCQuay Model RPS040C<br/>McQuay McQuay McQuay</td></tr> <tr><td>JU-111           JU-121           JU-12           JU-14           JU-15           JU-16           JU-17           JU-18           JU-19           JU-14          
JU-14</td><td>CC-12-1<br/>CC-13-1<br/>CC-13-1<br/>CC-13-1<br/>CC-14-1<br/>PH-1-1<br/>PH-2-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-6-1<br/>PH-7-1<br/>PH-6-1<br/>PH-7-1<br/>PH-10-1<br/>PH-10-1<br/>PH-10-1<br/>PH-10-1<br/>PH-11-1<br/>PH-12-1<br/>PH-13-1<br/>PH-14-1<br/>Number<br/>F-1-1<br/>F-2-1<br/>F-3-1<br/>F-3-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F-5-1<br/>F</td><td>363         442         403         213         Type         -         Preheat         Catridge         Catridge</td><td>Air °F<br/>E.A.T.<br/>0.0.<br/>244.8<br/>29.4<br/>421.1<br/>41.6<br/>0.0<br/>50.0<br/>50.0<br/>50.0<br/>50.0<br/>50.0<br/>50.0<br/>50.</td><td>44<br/>55<br/>55<br/>55<br/>57<br/>57.7<br/>57.7<br/>55.5<br/>54.4<br/>85.8<br/>86.1<br/>51.9<br/>7.9.7<br/>79.7<br/>79.7<br/>79.7<br/>79.7<br/>79.7<br/>79.7</td><td>10<br/>12<br/>12<br/>12<br/>12<br/>12<br/>12<br/>12<br/>12<br/>12<br/>12</td><td>78.0<br/>78.0<br/>78.0<br/>93.0<br/>93.0<br/>93.0<br/>93.0<br/>93.0<br/>93.0<br/>93.0<br/>93</td><td>65.0<br/>65.0<br/>65.0<br/>75.0<br/>800<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>20</td><td>51.0           50.8           51.2           53.1           Gas Press in. H<sub>2</sub>O           6.5           4.5           4.5           4.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           95</td><td>50.7<br/>50.7<br/>50.7<br/>51.1<br/>53.1<br/>53.1<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>20</td><td>407.6.<br/>1116.4<br/>1770.5<br/>289.9<br/>Final<br/>0.98<br/>0.38<br/>0.60<br/>0.24<br/>0.24<br/>0.24<br/>0.24<br/>0.50<br/>0.24<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52</td><td>289.8<br/>797.9<br/>556.5<br/>172.0<br/>172.0<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring</td><td>0.33<br/>0.67<br/>0.56<br/>0.23<br/>0.23<br/>tion Isolation<br/>Defl in inches<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2</td><td>DX<br/>DX<br/>DX<br/>DX<br/>DX<br/>DX<br/>MCUay Model RPS030C<br/>MCQuay Model RPS030C<br/>MCQuay Model RPS040C<br/>MCQuay Model RPS040C<br/>MCQuay Model RPS040C<br/>MCQuay Model RPS018C<br/>McQuay Model RPS018C<br/>McQuay Model RPS018C<br/>McQuay Model RPS018C<br/>McQuay Model RPS030C</td></tr> <tr><td>비료         1        
1</td><td>CC-12-1<br/>CC-13-1<br/>CC-13-1<br/>CC-14-1<br/>Number<br/>PH-1-1<br/>PH-2-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH</td><td>363       442       403       213       Type       Preheat       Catridge       Catridge</td><td>Air °F<br/>E.A.T.<br/>0.00<br/>244.8<br/>29.4<br/>421.1<br/>41.6<br/>0.0<br/>50.0<br/>50.0<br/>50.0<br/>50.0<br/>50.0<br/>50.0<br/>50.</td><td>4<br/>4<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5</td><td>10<br/>12<br/>12<br/>12<br/>12<br/>12<br/>12<br/>12<br/>12<br/>12<br/>12</td><td>78.0<br/>78.0<br/>78.0<br/>93.0<br/>93.0<br/>93.0<br/>93.0<br/>93.0<br/>250<br/>250<br/>800<br/>250<br/>800<br/></td><td>65.0<br/>65.0<br/>65.0<br/>75.0<br/>BTUH Output<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-</td><td>51.0           50.8           51.2           53.1           Gas Press in. H<sub>2</sub>O           -           6.5           4.5           4.5           4.5           6.5           4.5           7           -           6.5           4.5           7           -           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5           95           95           95           95           95           95           95           95           95           95<td>50.7<br/>50.7<br/>51.1<br/>53.1<br/>Stages<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>20</td><td>407.6.<br/>1116.4<br/>1770.5<br/>289.9<br/>Final<br/>0.98<br/>0.388<br/>0.600<br/>0.244<br/>0.50<br/>0.244<br/>0.50<br/>1.10<br/>0.70</td><td>Vibre<br/>Type<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring</td><td>0.33<br/>0.67<br/>0.58<br/>0.23<br/>0.23<br/>0.23<br/>0.23<br/>0.23<br/>0.23<br/>0.23<br/>0.23</td><td>DX<br/>DX<br/>DX<br/>DX<br/>DX<br/>DX<br/>MCQuay Model RPS030C<br/>McQuay Model RPS040C<br/>McQuay Model RPS040C<br/>McQuay Model RPS040C<br/>McQuay Model RPS040C<br/>McQuay Model RPS018C<br/>McQuay Model RPS030C</td></td></tr> <tr><td>XHU-111           XHU-121           XHU-133           XHU-14           Number           XHU-14           Number           XHU-14           XHU-15           XHU-16           XHU-17           XHU-18           XHU-18           XHU-19           XHU-10</td><td>CC-12-1<br/>CC-13-1<br/>CC-13-1<br/>CC-13-1<br/>CC-14-1<br/>PH-2-1<br/>PH-2-1<br/>PH-2-1<br/>PH-2-1<br/>PH-2-1<br/>PH-3-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-1-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-1-1<br/>PH-5-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>P</td><td>363         442         403         213         Type         -         Preheat         Cartridge         Cartridg</td><td>Air °F<br/>E.A.T.<br/>0.0.<br/>24.8<br/>29.4<br/>42.1<br/>41.6<br/>0.0<br/>50.0<br/>50.0<br/>50.0<br/>50.0<br/>50.0<br/>50.0<br/>50.</td><td>44<br/>55<br/>55<br/>55<br/>54<br/>44<br/>55.5<br/>55.5<br/>55.4<br/>4<br/>85.8<br/>86.1<br/>51.9<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-</td><td>10<br/>12<br/>12<br/>12<br/>12<br/>PD
in.<br/>H<sub>2</sub>O<br/>0.08<br/>0.07<br/>0.03<br/>0.01<br/>0.04<br/>0.36<br/>0.30<br/>0.35<br/>0.36<br/>0.06<br/>0.35<br/>0.06<br/>0.35<br/>0.06<br/>0.35<br/>0.06<br/>0.35<br/>0.06<br/>0.35<br/>0.06<br/>0.35<br/>0.06<br/>0.35<br/>0.07<br/>0.35<br/>0.35<br/>0.06<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0.35<br/>0</td><td>78.0<br/>78.0<br/>78.0<br/>93.0<br/>93.0<br/>93.0<br/>93.0<br/>93.0<br/>93.0<br/>93.0<br/>93</td><td>65.0<br/>65.0<br/>65.0<br/>75.0<br/>BTUH Output<br/></td><td>51.0           50.8           51.2           53.1           Gas Press in. H<sub>2</sub>O           6.5           4.5           4.5           7           -           6.5           5.5           4.5           7.7           -           6.5           5           6.5           7           -           6.5           5           6.5           7           -           6.5           5           6.5           95<td>50.7<br/>50.7<br/>50.7<br/>51.1<br/>53.1<br/>53.1<br/>53.1<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>20</td><td>0<br/>Final<br/>0.98<br/>0.88<br/>0.88<br/>0.88<br/>0.88<br/>0.88<br/>0.88<br/>0.88<br/>0.88<br/>0.88<br/>0.80<br/>0.80<br/>0.24<br/>0.24<br/>0.24<br/>0.24<br/>0.24<br/>0.24<br/>0.24<br/>0.24<br/>0.110<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0</td><td>Vibra<br/>797.9<br/>556.5<br/>172.0<br/>7ype<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring</td><td>0.33<br/>0.67<br/>0.58<br/>0.23<br/>0.23<br/>tion Isolation<br/>Defl in inches<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2</td><td>DX<br/>DX<br/>DX<br/>DX<br/>DX<br/>DX<br/>DX<br/>MCQuay Model RPS030C<br/>MCQuay Model RPS030C<br/>MCQuay Model RPS040C<br/>MCQuay Model RPS040C<br/>MCQuay Model RPS040C<br/>MCQuay Model RPS018C<br/>MCQuay Model RPS018C<br/>MCQuay Model RPS018C<br/>MCQuay Model RPS030C<br/>MCQuay Model RPS030C<br/>MCQuay Model RPS030C<br/>MCQuay Model RPS030C<br/>MCQuay Model RPS030C</td></td></tr> <tr><td>AHU-111           AHU-112           AHU-13           AHU-14           Number           AHU-14           Number           AHU-14           Number           AHU-14           Number           AHU-14           AHU-14           AHU-2           AHU-3           AHU-4           AHU-4           AHU-5           AHU-14           Number           AHU-14           Number           AHU-14           Number           AHU-14           AHU-14           AHU-14           AHU-14           AHU-3           AHU-40           AHU-30           AHU-40           AHU-30           AHU-40           AHU-30           AHU-30           AHU-19          
AHU-10</td><td>CC-12-1<br/>CC-13-1<br/>CC-13-1<br/>CC-14-1<br/>Number<br/>PH-1-1<br/>PH-2-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-1-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-5-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH-1-1<br/>PH</td><td>363         442         403         213         Type         -         Preheat         Cartridge         Cartridge</td><td>Air °F<br/>E.A.T.<br/>0.0.<br/>244.8<br/>29.4<br/>42.1<br/>41.6<br/>0.0<br/>50.0<br/>50.0<br/>50.0<br/>50.0<br/>50.0<br/>50.0<br/>50.</td><td>4<br/>4<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5</td><td>10<br/>12<br/>12<br/>12<br/>12<br/>12<br/>12<br/>12<br/>12<br/>12<br/>12</td><td>78.0<br/>78.0<br/>78.0<br/>93.0<br/>93.0<br/>93.0<br/>93.0<br/>93.0<br/>1000<br/>315<br/>250<br/>250<br/>250<br/>250<br/>250<br/>250<br/>250<br/>250<br/>250<br/>25</td><td>65.0<br/>65.0<br/>65.0<br/>75.0<br/>BTUH Output<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-</td><td>51.0           50.8           51.2           53.1           Gas Press in. H<sub>2</sub>O           6.5           4.5           4.5           4.5           6.5           4.5           6.5           4.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           95</td><td>50.7<br/>50.7<br/>50.7<br/>51.1<br/>53.1<br/>53.1<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>20</td><td>407.6.4<br/>1116.4<br/>1770.5<br/>289.9<br/>8<br/>8<br/>9<br/>8<br/>9<br/>9<br/>9<br/>9<br/>9<br/>9<br/>9<br/>9<br/>9<br/>9<br/>9<br/>9<br/>9<br/>9</td><td>289.8<br/>797.9<br/>556.5<br/>172.0<br/>7ype<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring</td><td>0.33<br/>0.67<br/>0.58<br/>0.23<br/>0.23<br/>0.23<br/>0.23<br/>0.23<br/>0.23<br/>0.23<br/>0.23</td><td>DX<br/>DX<br/>DX<br/>DX<br/>DX<br/>DX<br/>MCQuay Model RPS030C<br/>MCQuay Model RPS040C<br/>MCQuay MODE<br/>MCQUAY MCQUAY MCD<br/>MCQUAY MODE<br/>MCQUAY MCD<br/>MCQUAY MCD<br/>MCQUAY MCD<br/>MCQUAY</td></tr>
<tr><td>AHU-11<br/>AHU-13<br/>AHU-13<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-13<br/>AHU-4<br/>AHU-3<br/>AHU-4<br/>AHU-3<br/>AHU-4<br/>AHU-3<br/>AHU-4<br/>AHU-10<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AHU-11<br/>AH</td><td>CC-12-1<br/>CC-13-1<br/>CC-13-1<br/>CC-13-1<br/>CC-14-1<br/>PH-1-1<br/>PH-2-1<br/>PH-2-1<br/>PH-3-1<br/>PH-3-1<br/>PH-3-1<br/>PH-7-1<br/>PH-7-1<br/>PH-7-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>PH-9-1<br/>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        442         443         403         213         Type         -         Preheat         Catridge         <t< td=""><td>Air °F<br/>E.A.T.<br/>0.0.0<br/>24.8<br/>29.4<br/>42.1<br/>41.6<br/>0.0<br/>50.0<br/>50.0<br/>50.0<br/>50.0<br/>50.0<br/>50.0<br/>50.</td><td>4<br/>4<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5</td><td>10<br/>12<br/>12<br/>12<br/>12<br/>12<br/>12<br/>12<br/>12<br/>12<br/>12</td><td>78.0<br/>78.0<br/>78.0<br/>93.0<br/>93.0<br/>93.0<br/>93.0<br/>93.0<br/>93.0<br/>93.0<br/>93</td><td>65.0<br/>65.0<br/>65.0<br/>75.0<br/>BTUH Output<br/>- 800<br/>250<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>2</td><td>51.0           50.8           51.2           53.1           Gas Press in, H<sub>2</sub>O           6.5           6.5           4.5           4.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           7           -           6.5           6.5           7           -           6.5           7           -           6.5           7           6.5           7           6.5           7           95           95           95           95           95           95           95           95           95</td><td>50.7<br/>50.7<br/>50.7<br/>51.1<br/>53.1<br/>53.1<br/>53.1<br/>53.1<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>20</td><td>4076.6<br/>1116.4<br/>1770.5<br/>289.9<br/>Final<br/>0.98<br/>0.60<br/>0.60<br/>0.60<br/>0.60<br/>0.60<br/>0.60<br/>0.60<br/>0.6</td><td>Vibra<br/>797.9<br/>556.5<br/>172.0<br/>777.0<br/>777.0<br/>779.0<br/>779.0<br/>779.0<br/>779.0<br/>79.0</td><td>0.33<br/>0.67<br/>0.58<br/>0.23<br/>0.23<br/>0.23<br/>0.23<br/>0.23<br/>0.23<br/>0.23<br/>0.23</td><td>DX<br/>DX<br/>DX<br/>DX<br/>DX<br/>DX<br/>DX<br/>MCUay Model RPS030C<br/>McQuay Model RPS030C<br/>McQuay Model RPS040C<br/>McQuay McQuay McQ</td></t<></td></tr>
<tr><td>AHU-11<br/>AHU-12<br/>AHU-13<br/>AHU-14<br/>Number<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-2<br/>AHU-1<br/>AHU-2<br/>AHU-3<br/>AHU-4<br/>AHU-3<br/>AHU-4<br/>AHU-3<br/>AHU-4<br/>AHU-11<br/>AHU-12<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-14<br/>AHU-</td><td>CC-12-1<br/>CC-13-1<br/>CC-13-1<br/>CC-13-1<br/>CC-14-1<br/>Number<br/>PH-1-1<br/>PH-2-1<br/>PH-2-1<br/>PH-3-1<br/>PH-3-1<br/>PH-4-1<br/>PH-5-1<br/>PH-5-1<br/>PH-6-1<br/>PH-7-1<br/>PH-10-1<br/>PH-10-1<br/>PH-10-1<br/>PH-10-1<br/>PH-11-1<br/>PH-12-1<br/>PH-14-1<br/>Number<br/>F-1-1<br/>F-2-1<br/>F-5-1<br/>F-6-1<br/>F-6-1<br/>F-7-1<br/>F-8-1<br/>F-8-1<br/>F-8-1<br/>F-8-1<br/>F-10-1<br/>F-11-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-2-1<br/>F-2-1<br/>F-2-1<br/>F-2-1<br/>F-2-1<br/>F-2-1<br/>F-2-1<br/>F-2-1<br/>F-2-1<br/>F-2-1<br/>F-2-1<br/>F-2-1<br/>F-2-1<br/>F-2-1<br/>F-2-1<br/>F-2-1<br/>F-2-1<br/>F-2-1<br/>F-2-1<br/>F-2-1<br/>F-2-1<br/>F-2-1<br/>F-2-1<br/>F-2-1<br/>F-2-1<br/>F-2-1<br/>F-2-1<br/>F-2-1<br/>F-2-1<br/>F-2-1<br/>F-2-1<br/>F-2-1<br/>F-2-1<br/>F-2-1<br/>F-2-1<br/>F-2-1<br/>F-2-1<br/>F-2-1<br/>F-2-1<br/>F-2-1<br/>F-2-1<br/>F-2-1<br/>F-2-1<br/>F-2-1<br/>F-2-1<br/>F-2-1<br/>F-2-1<br/>F-2-1<br/>F-2-1<br/>F-2-1<br/>F-2-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1<br/>F-12-1</td><td>363         442         403         213         Type         -         Preheat         Cartridge         Cartridge</td><td>Air °F<br/>E.A.T.<br/>0.0.<br/>244.8<br/>29.4<br/>42.1<br/>41.6<br/>0.0<br/>50.0<br/>50.0<br/>50.0<br/>50.0<br/>50.0<br/>50.0<br/>50.</td><td>4<br/>4<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5</td><td>10<br/>12<br/>12<br/>12<br/>12<br/>12<br/>12<br/>12<br/>12<br/>12<br/>12</td><td>78.0<br/>78.0<br/>78.0<br/>93.0<br/>93.0<br/>93.0<br/>93.0<br/>93.0<br/>1000<br/>315<br/>250<br/>250<br/>250<br/>250<br/>250<br/>250<br/>250<br/>250<br/>250<br/>25</td><td>65.0<br/>65.0<br/>65.0<br/>75.0<br/>BTUH Output<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-</td><td>51.0           50.8           51.2           53.1           Gas Press in. H<sub>2</sub>O           6.5           4.5           4.5           4.5           6.5           4.5           6.5           4.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           95</td><td>50.7<br/>50.7<br/>50.7<br/>51.1<br/>53.1<br/>53.1<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>20</td><td>407.6.4<br/>1116.4<br/>770.5<br/>289.9<br/>8<br/>0.88<br/>0.38<br/>0.38<br/>0.38<br/>0.38<br/>0.38<br/>0.38<br/>0.</td><td>289.8<br/>797.9<br/>556.5<br/>172.0<br/>7ype<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring</td><td>0.33<br/>0.67<br/>0.58<br/>0.23<br/>0.23<br/>0.23<br/>0.23<br/>0.23<br/>0.23<br/>0.23<br/>0.23</td><td>DX<br/>DX<br/>DX<br/>DX<br/>DX<br/>DX<br/>MCQuay Model RPS030C<br/>MCQuay Model RPS040C<br/>MCQuay MODE<br/>MCQUAY MCQUAY MCD<br/>MCQUAY MODE<br/>MCQUAY MCD<br/>MCQUAY MCD<br/>MCQUAY MCD<br/>MCQUAY</td></tr> | 50.7<br>50.7<br>51.1<br>53.1<br>Stages<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20                       | 407.6.1<br>1116.4<br>770.5<br>289.9<br>Final<br>0.98<br>0.98<br>0.98<br>0.98<br>0.60<br>0.024  
   | 289.8<br>797.9<br>556.5<br>172.0<br>172.0<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring  | 0.33<br>0.67<br>0.58<br>0.23<br>0.23<br>0.23<br>0.23<br>0.23<br>0.23<br>0.23<br>0.23  | DX<br>DX<br>DX<br>DX<br>DX<br>MCUay Model RPS030C<br>McQuay Model RPS040C<br>McQuay Model RPS040C<br>McQuay Model RPS040C<br>McQuay Model RPS040C<br>McQuay Model RPS040C<br>McQuay Model RPS040C<br>McQuay Model RPS040C   | HU-111           HU-121           HU-131           HU-13           HU-14           Number           HU-15           HU-14           HU-14           HU-15           HU-14           HU-15           HU-14           HU-15           HU-14           HU-15           HU-15           HU-16           HU-17           HU-18           HU-111           HU-112           HU-112           HU-114           HU-112           HU-112           HU-112           HU-114           HU-14           HU-14           HU-14           HU-14           HU-14           HU-14           HU-14 | CC-12-1<br>CC-13-1<br>CC-13-1<br>CC-13-1<br>CC-14-1<br>PH-1-1<br>PH-2-1<br>PH-2-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-7-1<br>PH-7-1<br>PH-9-1<br>PH-9-1<br>PH-9-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-13-1<br>PH-11-1<br>PH-12-1<br>PH-11-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-11-1<br>PH-12-1<br>PH-12-1<br>PH-11-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-11-1<br>PH-12-1<br>PH-12-1<br>PH-11-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12 | 363       442       403       213       Type       -       Preheat       Cartridge       Cartridge | Air °F<br>E.A.T.<br>0.0.<br>24.8<br>29.4<br>42.1<br>41.6<br>0.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50. | 4455<br>555555555555555555555555555555555 | 10<br>12<br>12<br>12<br>12<br>12<br>PD in.<br>H <sub>2</sub>
O<br>0.03<br>0.01<br>0.36<br>0.35<br>0.35<br>0.35<br>0.36<br>0.35<br>0.36<br>0.35<br>0.36<br>0.35<br>0.36<br>0.35<br>0.36<br>0.35<br>0.36<br>0.35<br>0.36<br>0.35<br>0.36<br>0.35<br>0.36<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.3 | 78.0<br>78.0<br>78.0<br>93.0<br>93.0<br>93.0<br>93.0<br>93.0<br>93.0<br>93.0<br>93 | 65.0<br>65.0<br>65.0<br>75.0<br>BTUH Output<br>- 800<br>250<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>2 | 51.0           50.8           51.2           53.1           Gas Press in, H <sub>2</sub> O           6.5           6.5           4.5           4.5           6.5           7           95           95           95           95           95           95           95           95           95           95           95           95           95 | 50.7<br>50.7<br>51.1<br>53.1<br>Stages<br>-<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>2 | 407.6.<br>1116.4<br>1770.5<br>289.9 | Vibra<br>Type<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring | 0.33<br>0.67<br>0.58<br>0.23<br>0.23<br>tion Isolation<br>Defi in inches<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2 | DX<br>DX<br>DX<br>DX<br>DX<br>DX<br>MCUay Model RPS030C<br>MCQuay Model RPS040C<br>McQuay McQuay | JU-111           JU-121           JU-12           JU-14           JU-15           JU-16           JU-17           JU-18           JU-19           JU-14           JU-14 | CC-12-1<br>CC-13-1<br>CC-13-1<br>CC-13-1<br>CC-14-1<br>PH-1-1<br>PH-2-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-6-1<br>PH-7-1<br>PH-6-1<br>PH-7-1<br>PH-10-1<br>PH-10-1<br>PH-10-1<br>PH-10-1<br>PH-11-1<br>PH-12-1<br>PH-13-1<br>PH-14-1<br>Number<br>F-1-1<br>F-2-1<br>F-3-1<br>F-3-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F | 363         442         403         213         Type         -         Preheat         Catridge         Catridge | Air °F<br>E.A.T.<br>0.0.<br>244.8<br>29.4<br>421.1<br>41.6<br>0.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50. | 44<br>55<br>55<br>55<br>57<br>57.7<br>57.7<br>55.5<br>54.4<br>85.8<br>86.1<br>51.9<br>7.9.7<br>79.7<br>79.7<br>79.7<br>79.7<br>79.7<br>79.7 | 10<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12 | 78.0<br>78.0<br>78.0<br>93.0<br>93.0<br>93.0<br>93.0<br>93.0<br>93.0<br>93.0<br>93 | 65.0<br>65.0<br>65.0<br>75.0<br>800<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20 | 51.0           50.8           51.2           53.1           Gas Press in. H <sub>2</sub> O           6.5           4.5           4.5           4.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           95 | 50.7<br>50.7<br>50.7<br>51.1<br>53.1<br>53.1<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20 |
407.6.<br>1116.4<br>1770.5<br>289.9<br>Final<br>0.98<br>0.38<br>0.60<br>0.24<br>0.24<br>0.24<br>0.24<br>0.50<br>0.24<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52 | 289.8<br>797.9<br>556.5<br>172.0<br>172.0<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring | 0.33<br>0.67<br>0.56<br>0.23<br>0.23<br>tion Isolation<br>Defl in inches<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2 | DX<br>DX<br>DX<br>DX<br>DX<br>DX<br>MCUay Model RPS030C<br>MCQuay Model RPS030C<br>MCQuay Model RPS040C<br>MCQuay Model RPS040C<br>MCQuay Model RPS040C<br>MCQuay Model RPS018C<br>McQuay Model RPS018C<br>McQuay Model RPS018C<br>McQuay Model RPS018C<br>McQuay Model RPS030C | 비료         1 | CC-12-1<br>CC-13-1<br>CC-13-1<br>CC-14-1<br>Number<br>PH-1-1<br>PH-2-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH | 363       442       403       213       Type       Preheat       Catridge       Catridge | Air °F<br>E.A.T.<br>0.00<br>244.8<br>29.4<br>421.1<br>41.6<br>0.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50. | 4<br>4<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5 | 10<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12 | 78.0<br>78.0<br>78.0<br>93.0<br>93.0<br>93.0<br>93.0<br>93.0<br>250<br>250<br>800<br>250<br>800<br> | 65.0<br>65.0<br>65.0<br>75.0<br>BTUH Output<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | 51.0           50.8           51.2           53.1           Gas Press in. H <sub>2</sub> O           -           6.5           4.5           4.5           4.5           6.5           4.5           7           -           6.5           4.5           7           -           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5           95           95           95           95           95           95           95           95           95           95 <td>50.7<br/>50.7<br/>51.1<br/>53.1<br/>Stages<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>20</td> <td>407.6.<br/>1116.4<br/>1770.5<br/>289.9<br/>Final<br/>0.98<br/>0.388<br/>0.600<br/>0.244<br/>0.50<br/>0.244<br/>0.50<br/>1.10<br/>0.70</td> <td>Vibre<br/>Type<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring</td> <td>0.33<br/>0.67<br/>0.58<br/>0.23<br/>0.23<br/>0.23<br/>0.23<br/>0.23<br/>0.23<br/>0.23<br/>0.23</td> <td>DX<br/>DX<br/>DX<br/>DX<br/>DX<br/>DX<br/>MCQuay Model RPS030C<br/>McQuay Model RPS040C<br/>McQuay Model RPS040C<br/>McQuay Model RPS040C<br/>McQuay Model RPS040C<br/>McQuay Model RPS018C<br/>McQuay Model RPS030C</td> | 50.7<br>50.7<br>51.1<br>53.1<br>Stages<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20 | 407.6.<br>1116.4<br>1770.5<br>289.9<br>Final<br>0.98<br>0.388<br>0.600<br>0.244<br>0.50<br>0.244<br>0.50<br>1.10<br>0.70 | Vibre<br>Type<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring | 0.33<br>0.67<br>0.58<br>0.23<br>0.23<br>0.23<br>0.23<br>0.23<br>0.23<br>0.23<br>0.23 | DX<br>DX<br>DX<br>DX<br>DX<br>DX<br>MCQuay Model RPS030C<br>McQuay Model RPS040C<br>McQuay Model RPS040C<br>McQuay Model RPS040C<br>McQuay Model RPS040C<br>McQuay Model RPS018C<br>McQuay Model RPS030C | XHU-111           XHU-121           XHU-133           XHU-14           Number           XHU-14           Number           XHU-14           XHU-15           XHU-16           XHU-17           XHU-18           XHU-18           XHU-19           XHU-10 |
CC-12-1<br>CC-13-1<br>CC-13-1<br>CC-13-1<br>CC-14-1<br>PH-2-1<br>PH-2-1<br>PH-2-1<br>PH-2-1<br>PH-2-1<br>PH-3-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-1-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-1-1<br>PH-5-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>P | 363         442         403         213         Type         -         Preheat         Cartridge         Cartridg | Air °F<br>E.A.T.<br>0.0.<br>24.8<br>29.4<br>42.1<br>41.6<br>0.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50. | 44<br>55<br>55<br>55<br>54<br>44<br>55.5<br>55.5<br>55.4<br>4<br>85.8<br>86.1<br>51.9<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | 10<br>12<br>12<br>12<br>12<br>PD in.<br>H <sub>2</sub> O<br>0.08<br>0.07<br>0.03<br>0.01<br>0.04<br>0.36<br>0.30<br>0.35<br>0.36<br>0.06<br>0.35<br>0.06<br>0.35<br>0.06<br>0.35<br>0.06<br>0.35<br>0.06<br>0.35<br>0.06<br>0.35<br>0.06<br>0.35<br>0.07<br>0.35<br>0.35<br>0.06<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0 | 78.0<br>78.0<br>78.0<br>93.0<br>93.0<br>93.0<br>93.0<br>93.0<br>93.0<br>93.0<br>93 | 65.0<br>65.0<br>65.0<br>75.0<br>BTUH Output<br> | 51.0           50.8           51.2           53.1           Gas Press in. H <sub>2</sub> O           6.5           4.5           4.5           7           -           6.5           5.5           4.5           7.7           -           6.5           5           6.5           7           -           6.5           5           6.5           7           -           6.5           5           6.5           95 <td>50.7<br/>50.7<br/>50.7<br/>51.1<br/>53.1<br/>53.1<br/>53.1<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>20</td> <td>0<br/>Final<br/>0.98<br/>0.88<br/>0.88<br/>0.88<br/>0.88<br/>0.88<br/>0.88<br/>0.88<br/>0.88<br/>0.88<br/>0.80<br/>0.80<br/>0.24<br/>0.24<br/>0.24<br/>0.24<br/>0.24<br/>0.24<br/>0.24<br/>0.24<br/>0.110<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0</td>
<td>Vibra<br/>797.9<br/>556.5<br/>172.0<br/>7ype<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring</td> <td>0.33<br/>0.67<br/>0.58<br/>0.23<br/>0.23<br/>tion Isolation<br/>Defl in inches<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2</td> <td>DX<br/>DX<br/>DX<br/>DX<br/>DX<br/>DX<br/>DX<br/>MCQuay Model RPS030C<br/>MCQuay Model RPS030C<br/>MCQuay Model RPS040C<br/>MCQuay Model RPS040C<br/>MCQuay Model RPS040C<br/>MCQuay Model RPS018C<br/>MCQuay Model RPS018C<br/>MCQuay Model RPS018C<br/>MCQuay Model RPS030C<br/>MCQuay Model RPS030C<br/>MCQuay Model RPS030C<br/>MCQuay Model RPS030C<br/>MCQuay Model RPS030C</td> | 50.7<br>50.7<br>50.7<br>51.1<br>53.1<br>53.1<br>53.1<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20 | 0<br>Final<br>0.98<br>0.88<br>0.88<br>0.88<br>0.88<br>0.88<br>0.88<br>0.88<br>0.88<br>0.88<br>0.80<br>0.80<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.110<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0 | Vibra<br>797.9<br>556.5<br>172.0<br>7ype<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring | 0.33<br>0.67<br>0.58<br>0.23<br>0.23<br>tion Isolation<br>Defl in inches<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2 | DX<br>DX<br>DX<br>DX<br>DX<br>DX<br>DX<br>MCQuay Model RPS030C<br>MCQuay Model RPS030C<br>MCQuay Model RPS040C<br>MCQuay Model RPS040C<br>MCQuay Model RPS040C<br>MCQuay Model RPS018C<br>MCQuay Model RPS018C<br>MCQuay Model RPS018C<br>MCQuay Model RPS030C<br>MCQuay Model RPS030C<br>MCQuay Model RPS030C<br>MCQuay Model RPS030C<br>MCQuay Model RPS030C | AHU-111           AHU-112           AHU-13           AHU-14           Number           AHU-14           Number           AHU-14           Number           AHU-14           Number           AHU-14           AHU-14           AHU-2           AHU-3           AHU-4           AHU-4           AHU-5           AHU-14           Number           AHU-14           Number           AHU-14           Number           AHU-14           AHU-14           AHU-14           AHU-14           AHU-3           AHU-40           AHU-30           AHU-40           AHU-30           AHU-40           AHU-30           AHU-30           AHU-19           AHU-10 | CC-12-1<br>CC-13-1<br>CC-13-1<br>CC-14-1<br>Number<br>PH-1-1<br>PH-2-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-1-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH | 363         442         403         213         Type         -         Preheat         Cartridge         Cartridge | Air °F<br>E.A.T.<br>0.0.<br>244.8<br>29.4<br>42.1<br>41.6<br>0.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50. | 4<br>4<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5 | 10<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12 | 78.0<br>78.0<br>78.0<br>93.0<br>93.0<br>93.0<br>93.0<br>93.0<br>1000<br>315<br>250<br>250<br>250<br>250<br>250<br>250<br>250<br>250<br>250<br>25 | 65.0<br>65.0<br>65.0<br>75.0<br>BTUH Output<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | 51.0           50.8           51.2           53.1           Gas Press in. H <sub>2</sub> O           6.5           4.5           4.5           4.5           6.5           4.5           6.5           4.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           95 | 50.7<br>50.7<br>50.7<br>51.1<br>53.1<br>53.1<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20 | 407.6.4<br>1116.4<br>1770.5<br>289.9<br>8<br>8<br>9<br>8<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9 | 289.8<br>797.9<br>556.5<br>172.0<br>7ype<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring | 0.33<br>0.67<br>0.58<br>0.23<br>0.23<br>0.23<br>0.23<br>0.23<br>0.23<br>0.23<br>0.23 | DX<br>DX<br>DX<br>DX<br>DX<br>DX<br>MCQuay Model RPS030C<br>MCQuay Model RPS040C<br>MCQuay MODE<br>MCQUAY MCQUAY MCD<br>MCQUAY MODE<br>MCQUAY MCD<br>MCQUAY MCD<br>MCQUAY MCD<br>MCQUAY |
AHU-11<br>AHU-13<br>AHU-13<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-13<br>AHU-4<br>AHU-3<br>AHU-4<br>AHU-3<br>AHU-4<br>AHU-3<br>AHU-4<br>AHU-10<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AHU-11<br>AH 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| 363         442         443         403         213         Type         -         Preheat         Catridge         Catridge <t< td=""><td>Air °F<br/>E.A.T.<br/>0.0.0<br/>24.8<br/>29.4<br/>42.1<br/>41.6<br/>0.0<br/>50.0<br/>50.0<br/>50.0<br/>50.0<br/>50.0<br/>50.0<br/>50.</td><td>4<br/>4<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5</td><td>10<br/>12<br/>12<br/>12<br/>12<br/>12<br/>12<br/>12<br/>12<br/>12<br/>12</td><td>78.0<br/>78.0<br/>78.0<br/>93.0<br/>93.0<br/>93.0<br/>93.0<br/>93.0<br/>93.0<br/>93.0<br/>93</td><td>65.0<br/>65.0<br/>65.0<br/>75.0<br/>BTUH Output<br/>- 800<br/>250<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>2</td><td>51.0           50.8           51.2           53.1           Gas Press in, H<sub>2</sub>O           6.5           6.5           4.5           4.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           7           -           6.5           6.5           7           -           6.5           7           -           6.5           7           6.5           7           6.5           7           95           95           95           95           95           95           95           95           95</td><td>50.7<br/>50.7<br/>50.7<br/>51.1<br/>53.1<br/>53.1<br/>53.1<br/>53.1<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>20</td><td>4076.6<br/>1116.4<br/>1770.5<br/>289.9<br/>Final<br/>0.98<br/>0.60<br/>0.60<br/>0.60<br/>0.60<br/>0.60<br/>0.60<br/>0.60<br/>0.6</td><td>Vibra<br/>797.9<br/>556.5<br/>172.0<br/>777.0<br/>777.0<br/>779.0<br/>779.0<br/>779.0<br/>779.0<br/>79.0</td><td>0.33<br/>0.67<br/>0.58<br/>0.23<br/>0.23<br/>0.23<br/>0.23<br/>0.23<br/>0.23<br/>0.23<br/>0.23</td><td>DX<br/>DX<br/>DX<br/>DX<br/>DX<br/>DX<br/>DX<br/>MCUay Model RPS030C<br/>McQuay Model RPS030C<br/>McQuay Model RPS040C<br/>McQuay McQuay McQ</td></t<> | Air °F<br>E.A.T.<br>0.0.0<br>24.8<br>29.4<br>42.1<br>41.6<br>0.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50. | 4<br>4<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5 | 10<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12 | 78.0<br>78.0<br>78.0<br>93.0<br>93.0<br>93.0<br>93.0<br>93.0<br>93.0<br>93.0<br>93 | 65.0<br>65.0<br>65.0<br>75.0<br>BTUH Output<br>- 800<br>250<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>2 | 51.0           50.8           51.2           53.1           Gas Press in, H <sub>2</sub> O           6.5           6.5           4.5           4.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           7           -           6.5           6.5           7           -           6.5           7           -           6.5           7           6.5           7           6.5           7           95           95           95           95           95           95           95           95           95 | 50.7<br>50.7<br>50.7<br>51.1<br>53.1<br>53.1<br>53.1<br>53.1<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20 | 4076.6<br>1116.4<br>1770.5<br>289.9<br>Final<br>0.98<br>0.60<br>0.60<br>0.60<br>0.60<br>0.60<br>0.60<br>0.60<br>0.6 | Vibra<br>797.9<br>556.5<br>172.0<br>777.0<br>777.0<br>779.0<br>779.0<br>779.0<br>779.0<br>79.0 | 0.33<br>0.67<br>0.58<br>0.23<br>0.23<br>0.23<br>0.23<br>0.23<br>0.23<br>0.23<br>0.23 | DX<br>DX<br>DX<br>DX<br>DX<br>DX<br>DX<br>MCUay Model RPS030C<br>McQuay Model RPS030C<br>McQuay Model RPS040C<br>McQuay McQuay McQ |
AHU-11<br>AHU-12<br>AHU-13<br>AHU-14<br>Number<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-2<br>AHU-1<br>AHU-2<br>AHU-3<br>AHU-4<br>AHU-3<br>AHU-4<br>AHU-3<br>AHU-4<br>AHU-11<br>AHU-12<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU- 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CC-12-1<br>CC-13-1<br>CC-13-1<br>CC-13-1<br>CC-14-1<br>Number<br>PH-1-1<br>PH-2-1<br>PH-2-1<br>PH-3-1<br>PH-3-1<br>PH-4-1<br>PH-5-1<br>PH-5-1<br>PH-6-1<br>PH-7-1<br>PH-10-1<br>PH-10-1<br>PH-10-1<br>PH-10-1<br>PH-11-1<br>PH-12-1<br>PH-14-1<br>Number<br>F-1-1<br>F-2-1<br>F-5-1<br>F-6-1<br>F-6-1<br>F-7-1<br>F-8-1<br>F-8-1<br>F-8-1<br>F-8-1<br>F-10-1<br>F-11-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1 | 363         442         403         213         Type         -         Preheat         Cartridge         Cartridge | Air °F<br>E.A.T.<br>0.0.<br>244.8<br>29.4<br>42.1<br>41.6<br>0.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50. | 4<br>4<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5 | 10<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12 | 78.0<br>78.0<br>78.0<br>93.0<br>93.0<br>93.0<br>93.0<br>93.0<br>1000<br>315<br>250<br>250<br>250<br>250<br>250<br>250<br>250<br>250<br>250<br>25 | 65.0<br>65.0<br>65.0<br>75.0<br>BTUH Output<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | 51.0           50.8           51.2           53.1           Gas Press in. H <sub>2</sub> O           6.5           4.5           4.5           4.5           6.5           4.5           6.5           4.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           95 | 50.7<br>50.7<br>50.7<br>51.1<br>53.1<br>53.1<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20 | 407.6.4<br>1116.4<br>770.5<br>289.9<br>8<br>0.88<br>0.38<br>0.38<br>0.38<br>0.38<br>0.38<br>0.38<br>0. | 289.8<br>797.9<br>556.5<br>172.0<br>7ype<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring | 0.33<br>0.67<br>0.58<br>0.23<br>0.23<br>0.23<br>0.23<br>0.23<br>0.23<br>0.23<br>0.23 | DX<br>DX<br>DX<br>DX<br>DX<br>DX<br>MCQuay Model RPS030C<br>MCQuay Model RPS040C<br>MCQuay MODE<br>MCQUAY MCQUAY MCD<br>MCQUAY MODE<br>MCQUAY MCD<br>MCQUAY MCD<br>MCQUAY MCD<br>MCQUAY |
| 50.7<br>50.7<br>51.1<br>53.1<br>Stages<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20  | 407.6.1<br>1116.4<br>770.5<br>289.9<br>Final<br>0.98<br>0.98<br>0.98<br>0.98<br>0.60<br>0.024  | 289.8<br>797.9<br>556.5<br>172.0<br>172.0<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring  
  | 0.33<br>0.67<br>0.58<br>0.23<br>0.23<br>0.23<br>0.23<br>0.23<br>0.23<br>0.23<br>0.23  | DX<br>DX<br>DX<br>DX<br>DX<br>MCUay Model RPS030C<br>McQuay Model RPS040C<br>McQuay Model RPS040C<br>McQuay Model RPS040C<br>McQuay Model RPS040C<br>McQuay Model RPS040C<br>McQuay Model RPS040C<br>McQuay Model RPS040C |   |   |  |   
   
   
   
   
   
   
   
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| HU-111           HU-121           HU-131           HU-13           HU-14           Number           HU-15           HU-14           HU-14           HU-15           HU-14           HU-15           HU-14           HU-15           HU-14           HU-15           HU-15           HU-16           HU-17           HU-18           HU-111           HU-112           HU-112           HU-114           HU-112           HU-112           HU-112           HU-114           HU-14           HU-14           HU-14           HU-14           HU-14           HU-14           HU-14   | CC-12-1<br>CC-13-1<br>CC-13-1<br>CC-13-1<br>CC-14-1<br>PH-1-1<br>PH-2-1<br>PH-2-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-7-1<br>PH-7-1<br>PH-9-1<br>PH-9-1<br>PH-9-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-13-1<br>PH-11-1<br>PH-12-1<br>PH-11-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-11-1<br>PH-12-1<br>PH-12-1<br>PH-11-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-11-1<br>PH-12-1<br>PH-12-1<br>PH-11-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12-1<br>PH-12   | 363       442       403       213       Type       -       Preheat       Cartridge  
                   | Air °F<br>E.A.T.<br>0.0.<br>24.8<br>29.4<br>42.1<br>41.6<br>0.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.                                    | 4455<br>555555555555555555555555555555555   | 10<br>12<br>12<br>12<br>12<br>12<br>PD in.<br>H <sub>2</sub> O<br>0.03<br>0.01<br>0.36<br>0.35<br>0.35<br>0.35<br>0.36<br>0.35<br>0.36<br>0.35<br>0.36<br>0.35<br>0.36<br>0.35<br>0.36<br>0.35<br>0.36<br>0.35<br>0.36<br>0.35<br>0.36<br>0.35<br>0.36<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.3 | 78.0<br>78.0<br>78.0<br>93.0<br>93.0<br>93.0<br>93.0<br>93.0<br>93.0<br>93.0<br>93  | 65.0<br>65.0<br>65.0<br>75.0<br>BTUH Output<br>- 800<br>250<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>2   | 51.0           50.8           51.2           53.1           Gas Press in, H <sub>2</sub> O           6.5           6.5           4.5           4.5           6.5           7           95           95           95           95           95           95           95           95           95           95           95           95           95  
   
   
   
   
   
   
  | 50.7<br>50.7<br>51.1<br>53.1<br>Stages<br>-<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>2                   | 407.6.<br>1116.4<br>1770.5<br>289.9  
   | Vibra<br>Type<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring  | 0.33<br>0.67<br>0.58<br>0.23<br>0.23<br>tion Isolation<br>Defi in inches<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2 | DX<br>DX<br>DX<br>DX<br>DX<br>DX<br>MCUay Model RPS030C<br>MCQuay Model RPS040C<br>McQuay McQuay   |  |  |  |  |   |   |  |  | | | | | | |
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| JU-111           JU-121           JU-12           JU-14           JU-15           JU-16           JU-17           JU-18           JU-19           JU-14  | CC-12-1<br>CC-13-1<br>CC-13-1<br>CC-13-1<br>CC-14-1<br>PH-1-1<br>PH-2-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-6-1<br>PH-7-1<br>PH-6-1<br>PH-7-1<br>PH-10-1<br>PH-10-1<br>PH-10-1<br>PH-10-1<br>PH-11-1<br>PH-12-1<br>PH-13-1<br>PH-14-1<br>Number<br>F-1-1<br>F-2-1<br>F-3-1<br>F-3-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F-5-1<br>F | 363         442         403         213         Type         -         Preheat         Catridge  | Air °F<br>E.A.T.<br>0.0.<br>244.8<br>29.4<br>421.1<br>41.6<br>0.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.                                  | 44<br>55<br>55<br>55<br>57<br>57.7<br>57.7<br>55.5<br>54.4<br>85.8<br>86.1<br>51.9<br>7.9.7<br>79.7<br>79.7<br>79.7<br>79.7<br>79.7<br>79.7   | 10<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12  
   | 78.0<br>78.0<br>78.0<br>93.0<br>93.0<br>93.0<br>93.0<br>93.0<br>93.0<br>93.0<br>93  | 65.0<br>65.0<br>65.0<br>75.0<br>800<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20  | 51.0           50.8           51.2           53.1           Gas Press in. H <sub>2</sub> O           6.5           4.5           4.5           4.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           95   
   
   
   
   
   
   
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407.6.<br>1116.4<br>1770.5<br>289.9<br>Final<br>0.98<br>0.38<br>0.60<br>0.24<br>0.24<br>0.24<br>0.24<br>0.50<br>0.24<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52     | 289.8<br>797.9<br>556.5<br>172.0<br>172.0<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring  | 0.33<br>0.67<br>0.56<br>0.23<br>0.23<br>tion Isolation<br>Defl in inches<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2 | DX<br>DX<br>DX<br>DX<br>DX<br>DX<br>MCUay Model RPS030C<br>MCQuay Model RPS030C<br>MCQuay Model RPS040C<br>MCQuay Model RPS040C<br>MCQuay Model RPS040C<br>MCQuay Model RPS018C<br>McQuay Model RPS018C<br>McQuay Model RPS018C<br>McQuay Model RPS018C<br>McQuay Model RPS030C   |  |  |  |  |   |  
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   | Air °F<br>E.A.T.<br>0.00<br>244.8<br>29.4<br>421.1<br>41.6<br>0.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.                                  | 4<br>4<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5   | 10<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12  | 78.0<br>78.0<br>78.0<br>93.0<br>93.0<br>93.0<br>93.0<br>93.0<br>250<br>250<br>800<br>250<br>800<br>   | 65.0<br>65.0<br>65.0<br>75.0<br>BTUH Output<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-   | 51.0           50.8           51.2           53.1           Gas Press in. H <sub>2</sub> O           -           6.5           4.5           4.5           4.5           6.5           4.5           7           -           6.5           4.5           7           -           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           5           95           95           95           95           95           95           95           95           95           95 <td>50.7<br/>50.7<br/>51.1<br/>53.1<br/>Stages<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>20</td> <td>407.6.<br/>1116.4<br/>1770.5<br/>289.9<br/>Final<br/>0.98<br/>0.388<br/>0.600<br/>0.244<br/>0.50<br/>0.244<br/>0.50<br/>1.10<br/>0.70</td> <td>Vibre<br/>Type<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring</td> <td>0.33<br/>0.67<br/>0.58<br/>0.23<br/>0.23<br/>0.23<br/>0.23<br/>0.23<br/>0.23<br/>0.23<br/>0.23</td> <td>DX<br/>DX<br/>DX<br/>DX<br/>DX<br/>DX<br/>MCQuay Model RPS030C<br/>McQuay Model RPS040C<br/>McQuay Model RPS040C<br/>McQuay Model RPS040C<br/>McQuay Model RPS040C<br/>McQuay Model RPS018C<br/>McQuay Model RPS030C</td>   
   
   
   
   
   
   
   | 50.7<br>50.7<br>51.1<br>53.1<br>Stages<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20                       | 407.6.<br>1116.4<br>1770.5<br>289.9<br>Final<br>0.98<br>0.388<br>0.600<br>0.244<br>0.50<br>0.244<br>0.50<br>1.10<br>0.70  
  | Vibre<br>Type<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring  | 0.33<br>0.67<br>0.58<br>0.23<br>0.23<br>0.23<br>0.23<br>0.23<br>0.23<br>0.23<br>0.23  | DX<br>DX<br>DX<br>DX<br>DX<br>DX<br>MCQuay Model RPS030C<br>McQuay Model RPS040C<br>McQuay Model RPS040C<br>McQuay Model RPS040C<br>McQuay Model RPS040C<br>McQuay Model RPS018C<br>McQuay Model RPS030C  |  |  |  |  |   | | | | | | | | |
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| XHU-111           XHU-121           XHU-133           XHU-14           Number           XHU-14           Number           XHU-14           XHU-15           XHU-16           XHU-17           XHU-18           XHU-18           XHU-19           XHU-10   | CC-12-1<br>CC-13-1<br>CC-13-1<br>CC-13-1<br>CC-14-1<br>PH-2-1<br>PH-2-1<br>PH-2-1<br>PH-2-1<br>PH-2-1<br>PH-3-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-1-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-1-1<br>PH-5-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>P   | 363         442         403         213         Type         -         Preheat         Cartridge         Cartridg   | Air °F<br>E.A.T.<br>0.0.<br>24.8<br>29.4<br>42.1<br>41.6<br>0.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.                                    | 44<br>55<br>55<br>55<br>54<br>44<br>55.5<br>55.5<br>55.4<br>4<br>85.8<br>86.1<br>51.9<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                                      | 10<br>12<br>12<br>12<br>12<br>PD in.<br>H <sub>2</sub>
O<br>0.08<br>0.07<br>0.03<br>0.01<br>0.04<br>0.36<br>0.30<br>0.35<br>0.36<br>0.06<br>0.35<br>0.06<br>0.35<br>0.06<br>0.35<br>0.06<br>0.35<br>0.06<br>0.35<br>0.06<br>0.35<br>0.06<br>0.35<br>0.07<br>0.35<br>0.35<br>0.06<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0.35<br>0 | 78.0<br>78.0<br>78.0<br>93.0<br>93.0<br>93.0<br>93.0<br>93.0<br>93.0<br>93.0<br>93  | 65.0<br>65.0<br>65.0<br>75.0<br>BTUH Output<br>  | 51.0           50.8           51.2           53.1           Gas Press in. H <sub>2</sub> O           6.5           4.5           4.5           7           -           6.5           5.5           4.5           7.7           -           6.5           5           6.5           7           -           6.5           5           6.5           7           -           6.5           5           6.5           95 <td>50.7<br/>50.7<br/>50.7<br/>51.1<br/>53.1<br/>53.1<br/>53.1<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>20</td> <td>0<br/>Final<br/>0.98<br/>0.88<br/>0.88<br/>0.88<br/>0.88<br/>0.88<br/>0.88<br/>0.88<br/>0.88<br/>0.88<br/>0.80<br/>0.80<br/>0.24<br/>0.24<br/>0.24<br/>0.24<br/>0.24<br/>0.24<br/>0.24<br/>0.24<br/>0.110<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0</td>
<td>Vibra<br/>797.9<br/>556.5<br/>172.0<br/>7ype<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring<br/>Spring</td> <td>0.33<br/>0.67<br/>0.58<br/>0.23<br/>0.23<br/>tion Isolation<br/>Defl in inches<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2<br/>2</td> <td>DX<br/>DX<br/>DX<br/>DX<br/>DX<br/>DX<br/>DX<br/>MCQuay Model RPS030C<br/>MCQuay Model RPS030C<br/>MCQuay Model RPS040C<br/>MCQuay Model RPS040C<br/>MCQuay Model RPS040C<br/>MCQuay Model RPS018C<br/>MCQuay Model RPS018C<br/>MCQuay Model RPS018C<br/>MCQuay Model RPS030C<br/>MCQuay Model RPS030C<br/>MCQuay Model RPS030C<br/>MCQuay Model RPS030C<br/>MCQuay Model RPS030C</td>  
   
   
   
   
   
   | 50.7<br>50.7<br>50.7<br>51.1<br>53.1<br>53.1<br>53.1<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20         |
0<br>Final<br>0.98<br>0.88<br>0.88<br>0.88<br>0.88<br>0.88<br>0.88<br>0.88<br>0.88<br>0.88<br>0.80<br>0.80<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.110<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0 | Vibra<br>797.9<br>556.5<br>172.0<br>7ype<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring | 0.33<br>0.67<br>0.58<br>0.23<br>0.23<br>tion Isolation<br>Defl in inches<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2 | DX<br>DX<br>DX<br>DX<br>DX<br>DX<br>DX<br>MCQuay Model RPS030C<br>MCQuay Model RPS030C<br>MCQuay Model RPS040C<br>MCQuay Model RPS040C<br>MCQuay Model RPS040C<br>MCQuay Model RPS018C<br>MCQuay Model RPS018C<br>MCQuay Model RPS018C<br>MCQuay Model RPS030C<br>MCQuay Model RPS030C<br>MCQuay Model RPS030C<br>MCQuay Model RPS030C<br>MCQuay Model RPS030C  |  |  |  |  |   |  
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| AHU-111           AHU-112           AHU-13           AHU-14           Number           AHU-14           Number           AHU-14           Number           AHU-14           Number           AHU-14           AHU-14           AHU-2           AHU-3           AHU-4           AHU-4           AHU-5           AHU-14           Number           AHU-14           Number           AHU-14           Number           AHU-14           AHU-14           AHU-14           AHU-14           AHU-3           AHU-40           AHU-30           AHU-40           AHU-30           AHU-40           AHU-30           AHU-30           AHU-19           AHU-10  | CC-12-1<br>CC-13-1<br>CC-13-1<br>CC-14-1<br>Number<br>PH-1-1<br>PH-2-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-3-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-1-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-5-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH-1-1<br>PH   | 363         442         403         213         Type         -         Preheat         Cartridge   
              | Air °F<br>E.A.T.<br>0.0.<br>244.8<br>29.4<br>42.1<br>41.6<br>0.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.                                   | 4<br>4<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5   | 10<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12  | 78.0<br>78.0<br>78.0<br>93.0<br>93.0<br>93.0<br>93.0<br>93.0<br>1000<br>315<br>250<br>250<br>250<br>250<br>250<br>250<br>250<br>250<br>250<br>25  | 65.0<br>65.0<br>65.0<br>75.0<br>BTUH Output<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-   | 51.0           50.8           51.2           53.1           Gas Press in. H <sub>2</sub> O           6.5           4.5           4.5           4.5           6.5           4.5           6.5           4.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           95   
   
   
   
   
   
   
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  | 289.8<br>797.9<br>556.5<br>172.0<br>7ype<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring           | 0.33<br>0.67<br>0.58<br>0.23<br>0.23<br>0.23<br>0.23<br>0.23<br>0.23<br>0.23<br>0.23  | DX<br>DX<br>DX<br>DX<br>DX<br>DX<br>MCQuay Model RPS030C<br>MCQuay Model RPS040C<br>MCQuay MODE<br>MCQUAY MCQUAY MCD<br>MCQUAY MODE<br>MCQUAY MCD<br>MCQUAY MCD<br>MCQUAY MCD<br>MCQUAY |  |  |  |  |   |   |  |  | | | | | | |
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  | 363         442         443         403         213         Type         -         Preheat         Catridge         Catridge <t< td=""><td>Air °F<br/>E.A.T.<br/>0.0.0<br/>24.8<br/>29.4<br/>42.1<br/>41.6<br/>0.0<br/>50.0<br/>50.0<br/>50.0<br/>50.0<br/>50.0<br/>50.0<br/>50.</td><td>4<br/>4<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5<br/>5</td><td>10<br/>12<br/>12<br/>12<br/>12<br/>12<br/>12<br/>12<br/>12<br/>12<br/>12</td><td>78.0<br/>78.0<br/>78.0<br/>93.0<br/>93.0<br/>93.0<br/>93.0<br/>93.0<br/>93.0<br/>93.0<br/>93</td><td>65.0<br/>65.0<br/>65.0<br/>75.0<br/>BTUH Output<br/>- 800<br/>250<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>2</td><td>51.0           50.8           51.2           53.1           Gas Press in, H<sub>2</sub>O           6.5           6.5           4.5           4.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           7           -           6.5           6.5           7           -           6.5           7           -           6.5           7           6.5           7           6.5           7           95           95           95           95           95           95           95           95           95</td><td>50.7<br/>50.7<br/>50.7<br/>51.1<br/>53.1<br/>53.1<br/>53.1<br/>53.1<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>200<br/>20</td><td>4076.6<br/>1116.4<br/>1770.5<br/>289.9<br/>Final<br/>0.98<br/>0.60<br/>0.60<br/>0.60<br/>0.60<br/>0.60<br/>0.60<br/>0.60<br/>0.6</td><td>Vibra<br/>797.9<br/>556.5<br/>172.0<br/>777.0<br/>777.0<br/>779.0<br/>779.0<br/>779.0<br/>779.0<br/>79.0</td><td>0.33<br/>0.67<br/>0.58<br/>0.23<br/>0.23<br/>0.23<br/>0.23<br/>0.23<br/>0.23<br/>0.23<br/>0.23</td><td>DX<br/>DX<br/>DX<br/>DX<br/>DX<br/>DX<br/>DX<br/>MCUay Model RPS030C<br/>McQuay Model RPS030C<br/>McQuay Model RPS040C<br/>McQuay McQuay McQ</td></t<> | Air °F<br>E.A.T.<br>0.0.0<br>24.8<br>29.4<br>42.1<br>41.6<br>0.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.                                   | 4<br>4<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5   | 10<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12   
  | 78.0<br>78.0<br>78.0<br>93.0<br>93.0<br>93.0<br>93.0<br>93.0<br>93.0<br>93.0<br>93  | 65.0<br>65.0<br>65.0<br>75.0<br>BTUH Output<br>- 800<br>250<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>2   | 51.0           50.8           51.2           53.1           Gas Press in, H <sub>2</sub> O           6.5           6.5           4.5           4.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           7           -           6.5           6.5           7           -           6.5           7           -           6.5           7           6.5           7           6.5           7           95           95           95           95           95           95           95           95           95   
   
   
   
   
   
   
   | 50.7<br>50.7<br>50.7<br>51.1<br>53.1<br>53.1<br>53.1<br>53.1<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20 | 4076.6<br>1116.4<br>1770.5<br>289.9<br>Final<br>0.98<br>0.60<br>0.60<br>0.60<br>0.60<br>0.60<br>0.60<br>0.60<br>0.6   
                      | Vibra<br>797.9<br>556.5<br>172.0<br>777.0<br>777.0<br>779.0<br>779.0<br>779.0<br>779.0<br>79.0   | 0.33<br>0.67<br>0.58<br>0.23<br>0.23<br>0.23<br>0.23<br>0.23<br>0.23<br>0.23<br>0.23  | DX<br>DX<br>DX<br>DX<br>DX<br>DX<br>DX<br>MCUay Model RPS030C<br>McQuay Model RPS030C<br>McQuay Model RPS040C<br>McQuay McQuay McQ                               |  |  |  |  |   |   |  |  |   |   |                                     |   |   |  
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AHU-11<br>AHU-12<br>AHU-13<br>AHU-14<br>Number<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-2<br>AHU-1<br>AHU-2<br>AHU-3<br>AHU-4<br>AHU-3<br>AHU-4<br>AHU-3<br>AHU-4<br>AHU-11<br>AHU-12<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-14<br>AHU-  | CC-12-1<br>CC-13-1<br>CC-13-1<br>CC-13-1<br>CC-14-1<br>Number<br>PH-1-1<br>PH-2-1<br>PH-2-1<br>PH-3-1<br>PH-3-1<br>PH-4-1<br>PH-5-1<br>PH-5-1<br>PH-6-1<br>PH-7-1<br>PH-10-1<br>PH-10-1<br>PH-10-1<br>PH-10-1<br>PH-11-1<br>PH-12-1<br>PH-14-1<br>Number<br>F-1-1<br>F-2-1<br>F-5-1<br>F-6-1<br>F-6-1<br>F-7-1<br>F-8-1<br>F-8-1<br>F-8-1<br>F-8-1<br>F-10-1<br>F-11-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-2-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1<br>F-12-1  | 363         442         403         213         Type         -         Preheat         Cartridge   
              | Air °F<br>E.A.T.<br>0.0.<br>244.8<br>29.4<br>42.1<br>41.6<br>0.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.0<br>50.                                   | 4<br>4<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5   | 10<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12  | 78.0<br>78.0<br>78.0<br>93.0<br>93.0<br>93.0<br>93.0<br>93.0<br>1000<br>315<br>250<br>250<br>250<br>250<br>250<br>250<br>250<br>250<br>250<br>25  | 65.0<br>65.0<br>65.0<br>75.0<br>BTUH Output<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-   | 51.0           50.8           51.2           53.1           Gas Press in. H <sub>2</sub> O           6.5           4.5           4.5           4.5           6.5           4.5           6.5           4.5           6.5           6.5           6.5           6.5           6.5           6.5           6.5           5           6.5           5           6.5           5           6.5           5           6.5           95   
   
   
   
   
   
   
   | 50.7<br>50.7<br>50.7<br>51.1<br>53.1<br>53.1<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20                 | 407.6.4<br>1116.4<br>770.5<br>289.9<br>8<br>0.88<br>0.38<br>0.38<br>0.38<br>0.38<br>0.38<br>0.38<br>0.  
  | 289.8<br>797.9<br>556.5<br>172.0<br>7ype<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring<br>Spring           | 0.33<br>0.67<br>0.58<br>0.23<br>0.23<br>0.23<br>0.23<br>0.23<br>0.23<br>0.23<br>0.23  | DX<br>DX<br>DX<br>DX<br>DX<br>DX<br>MCQuay Model RPS030C<br>MCQuay Model RPS040C<br>MCQuay MODE<br>MCQUAY MCQUAY MCD<br>MCQUAY MODE<br>MCQUAY MCD<br>MCQUAY MCD<br>MCQUAY MCD<br>MCQUAY |  |  |  |  |   |   |  |  | | | | | | |
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Appendix IV-1

#### AHU 1

						CLG	SPAC	E PEAI	<			HEATING C	OIL PE	AK		ТЕМІ	PERATUR	ES	
	Peaked at Time: Outside Air: Space Sens. + Lat.			o/Hr: 7 / 15 /HR: 93 / 75 /	102	1 1 1	Mo/Hr: OADB:					Mo/Hr: 1 OADB: (				SADB Plenum	<b>Cooling</b> 49.3 85.4		<b>ting</b> 68.0 58.9
			Plenum Sens. + Lat Btu/h		Percent Of Total (%)	1	Space Sensible Btu/h	Percent Of Total (%)				Space Peak Space Sens Btu/h	Tot S		Percent Of Total (%)	Return Ret/OA Fn MtrTD	68.0 71.8 0.2		68.0 57.8 0.0
Envelope Load	ls	Dtu/II	Dta/IT	Dtd/11	(70)	1	Dtu/II	(70)		lope L	oads	Dta/II		510/11	(70)	Fn BldTD	0.5		0.0
Skylite Solar		0	0	0	0.00		0	0.00	-	ylite Sc		0		0	0.00	Fn Frict	1.6		0.0
Skylite Cond		0	0	0	0.00		0	0.00		ylite Co		0		0	0.00				
Roof Cond		0	3,660	3,660	1.60		0	0.00		of Con		0	-2	2,909	1.86				
Glass Solar		0	0	0	0.00		0	0.00		ass Sol		0		0	0.00				
Glass Cond		0	0	0	0.00		0	0.00	Gla	ass Coi	nd	0		0	0.00		IRFLOWS		
Wall Cond		0	0	0	0.00	1	0	0.00	Wa	all Cond	d	0		0	0.00	A	INFLOWS		
Partition		0		0	0.00	i -	0	0.00	i Pa	rtition		0		0	0.00		Cooling	Hea	ting
Exposed Floo	r	0		0	0.00	1	0	0.00	Ex	posed	Floor	0		0	0.00	Vent	1,008	1	,008
Infiltration		0		0	0.00	į.	0	0.00	Infi	iltration	1	0		0	0.00	Infil	0		0
Sub Total ==>	•	0	3,660	3,660	1.60	1	0	0.00	Su	b Total	==>	0	-2	2,910	1.86	Supply	6,691	6	,691
			-	-		i.			i.							MinStop/Rh	6.691	6	.691
Internal Loads						1			Intern	nal Loa	ads					Return	6,691	6	.691
Lights		7,534	1.884	9,418	4.11	i.	7,534	5.41	Lig	hts		0		0	0.00	Exhaust	1,008		,008
People		5.041	7	5.041	2.20		2.521	1.81		ople		0		0	0.00	Rm Exh	0		0
Misc		8.871	0	118,871	51.86		118.871	85.39		sc		59,436	59	,436	-37.92	Auxiliary	0		0
Sub Total ==>		1,446	1,884	133,330	58.17		128,926	92.61		b Total	l ==>	59,436		,436	-37.92	, tuxina y	C C		ů
						I I			1										
Ceiling Load		5,543	-5,543	0	0.00		5,666		Ceilir			-2,909		0	0.00	ENGIN	IEERING	CKS	
Ventilation Loa		0	0	69,994	30.54		0		Venti			0		6,449	48.78	LINOIT			
Ov/Undr Sizing	3	4,740		4,740	2.07		4,617	3.32	Ov/U			-56,560	-56	,560	36.09		Cooling		
Exhaust Heat			0	0	0.00				Exha	ust He	at			0	0.00	% OA	15.1		15.1
Sup. Fan Heat				17,487	7.63	1			OA P	reheat	Diff.			0	0.00	cfm/ft <sup>2</sup>	6.64		6.64
Ret. Fan Heat			0	0	0.00	i -			i RA P	reheat	Diff.			0	0.00	cfm/ton	350.32		
Duct Heat Pku	р		0	0	0.00	1			Addit	tional I	Reheat		-80	,247	51.20	ft²/ton	52.78		
Reheat at Desi	gn			0	0.00	į.			1							Btu/hr-ft <sup>2</sup>	227.35	-15	5.53
Grand Total ==	- 11	1.730	0	229.211	100.00	i I	139.210	100.00	Gran	d Toto	1	-34	156	5.731	100.00	No. People	10		
	• 14	1,730	0	229,211	100.00	1	139,210	100.00	Gran	u Tola	1 ==>	-34	-156	5,731	100.00				
	Total Cap	<b>bacity</b> MBh	COOLING Sens Cap. MBh	COIL SEL Coil Airflow		DB/W	<b>B/HR</b> gr/lb	Leave D °F		HR r/lb		AREAS Gross Total	Glass ft <sup>2</sup> (%	(6)	HEA	TING COIL Capacity MBh	SELECT Coil Airflow		<b>Lvg</b> °F
Main Clg	19.1	229.2	184.8	6.691	71.8		51.6	47.0	0	2.0	Floor	1,008	<b>v</b> -	-	Main Htg	-156.8	6.691	47.0	68.0
Aux Clq	0.0	0.0	0.0	0,091	0.0	0.0	0.0	0.0		0.0	Part	1,000			Aux Hta	0.0	0,031	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0		0.0	ExFlr	0			Preheat	0.0	0	0.0	0.0
Opt vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Roof	1,008	0	0	rieneat	0.0	0	0.0	0.0
Total	19.1	229.2									Wall	1,008	0		Humidif	0.0	0	0.0	0.0
illai	19.1	229.2									wall	U	U	-	Opt Vent	0.0	0	0.0	0.0
															•		0	0.0	0.0
															Total	-156.8			

Appendix IV-1

#### AHU 2

			CLG SPAC	E PEAK			HEATING C	OIL PEAK		TEM	PERATUR	ES			
	ed at Time: outside Air:		o/Hr: 7 / 15 /HR: 93 / 75 /	102	Mo/Hr: OADB:				Mo/Hr: OADB:			SADB Plenum	<b>Cooling</b> 50.2 84.2		t <b>ing</b> 58.3 58.9
	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h		Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)			Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Of Total	Return Ret/OA Fn MtrTD	84.2 93.0 0.2	5	58.9 0.0 0.0
Envelope Loads Skylite Solar Skylite Cond Roof Cond	0 0	0 0 6.932	0 0 6.932	0.00 0.00 0.72	0	0.00 0.00 0.00	Envelope Skylite S Skylite ( Roof Co	Solar Cond	0 0 0	0 0 -5.425	0.00	Fn BldTD Fn Frict	0.4 1.3		0.0 0.0
Glass Solar Glass Cond Wall Cond	4,056 2,203 0	0 0 0	4,056 2,203 0	0.42 0.23 0.00	4,404 2,159 0	2.00 0.98 0.00	Glass S Glass C Wall Co	olar ond nd	0 -6,308 0	-6,308 -1	0 0.00 0.74 0.00	A	IRFLOWS		
Partition Exposed Floor Infiltration Sub Total ==>	0 0 6,259	6,932	0 0 13,192	0.00 0.00 0.00 1.37	0 0 6,564	0.00 0.00 0.00 2.98	Partition Exposed Infiltration Sub Tot	d Floor on	0 0 -1 -6,309	0 0 -1 -11,735	0.00	Vent Infil Supply	Cooling 11,123 0 11,123	,	t <b>ing</b> 123 0 123
Internal Loads Lights People Misc	10,838 9,400 66,245	2,710 0	13,548 9,400 66,245	1.41 0.98 6.89	10,838 4,700 66,245	4.91 2.13 30.03	Internal Lo Lights People Misc	oads	0 0 33.123	0 0 33,123	0.00	MinStop/Rh Return Exhaust Rm Exh Auxiliarv	11,123 0 0 11,123 0	,	123 0 0 123 0
Sub Total ==>	86,483 9,642	2,710 -9,642	89,193 0	9.27 0.00	81,783 9,769	37.07 4.43	Sub Tot	ad	-5,426	33,123	-3.91 0.00		NEERING		•
Ventilation Load Ov/Undr Sizing Exhaust Heat Sup. Fan Heat Ret. Fan Heat Duct Heat Pkup Reheat at Desig	122,923	0 0 0 0	712,649 122,923 0 23,728 0 0 0	74.10 12.78 0.00 2.47 0.00 0.00 0.00	0 122,491	0.00 55.52	Ventilation Ov/Undr S Exhaust H OA Prehe RA Prehe Additiona	Sizing leat at Diff. at Diff.	0 -25,014	-843,393 -25,014 C C C C C C C C	2.95 0.00 0.00 0.00 0.00	© OA cfm/ft <sup>2</sup> cfm/ton ft <sup>2</sup> /ton Btu/hr-ft <sup>2</sup> No. People	Cooling 100.0 5.92 138.79 23.46 511.53 19	Heat 10 5	00.0 5.92
Grand Total ==>	225,308	0	961,684	100.00	220,608	100.00	Grand To	tal ==>	-3,627	-847,020	100.00		10		
	<b>otal Capacity</b> ton MBh		COIL SEL Coil Airflow		N DB/WB/HR °F gr/lb	Leave DI °F	<b>B/WB/HR</b> °F gr/lb		AREAS Gross Total	Glass ft² (%)	HEA	ATING COIL Capacity MBh	<b>SELECT</b> Coil Airflow		<b>Lvg</b> °F
Aux Clg	30.1961.70.00.00.00.0	554.4 0.0 0.0	11,123 0 0	93.0 0.0 0.0	75.0 101.9 0.0 0.0 0.0 0.0	0.0	8.2 50.0 0.0 0.0 0.0 0.0	Floor Part ExFlr Roof	1,880 0 0 1,880	0 0	Main Htg Aux Htg Preheat	-248.1 0.0 -599.1	11,123 0 11,123	48.3 0.0 0.0	68.3 0.0 48.3
<b>Total</b> 8	961.7							Wall	147	147 100	Humidif Opt Vent <i>Total</i>	-355.4 0.0 -1,202.5	11,123 0	1.1 0.0	46.7 0.0

Appendix IV-1

#### AHU 3

	COOLING COIL PEAK Peaked at Time: Mo/Hr: 7 / 15 Outside Air: OADB/WB/HR: 93 / 75 / 1				CLG SPAC	E PEAK			HEATING C	OIL PEAK		ТЕМІ	PERATUR	ES	
	ed at Time: outside Air:			102	Mo/Hr: OADB:				Mo/Hr: 1 OADB:			SADB Plenum	<b>Cooling</b> 49.0 84.3	6	<b>ting</b> 58.0 58.9
	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h		Percent Of Total (%)	Space Sensible Btu/h	Percent Of Total (%)			Space Peak Space Sens Btu/h		C Percent C Of Total	Return Ret/OA Fn MtrTD	68.0 86.3 0.2	6	58.0 18.3 0.0
Envelope Loads Skylite Solar		0	0	0.00	0	0.00	Envelope Skylite		0	() (	. ,	Fn BldTD Fn Frict	0.5		0.0 0.0 0.0
Skylite Cond Roof Cond	0 0	0 4,332	0 4,332	0.00 0.93	000	0.00 0.00	Skylite Roof C	ond	0 0	) -3,397	0.95				
Glass Solar Glass Cond Wall Cond	0 0 0	0 0 0	0 0 0	0.00 0.00 0.00	0	0.00 0.00 0.00	Glass S Glass C Wall Co	Cond	0 0 0	( ( (	0.00	Α	IRFLOWS		
Partition Exposed Floor	0	0	0	0.00	0	0.00 0.00 0.00	Partitio		0	(	0.00	Vent	<b>Cooling</b> 4,708	Heat	<b>ting</b> 708
Infiltration Sub Total ==>	0 0	4,332	0 4,332	0.00 0.93	0	0.00 0.00	Infiltrati Sub To	ion	0 0	( -3,397	0.00	Infil Supply	0 6,442	6,	0 442
Internal Loads	7.018	1.755	8.773	1.89	7.018	5.13	Internal L Lights	oads	0	(	) 0.00	MinStop/Rh Return Exhaust	6,442 4,278 2,543	4,	442 278 543
People Misc	5,885 71,520	1,755	5,885 71,520	1.09 1.27 15.39	2,943	2.15 52.29	People Misc		0 35,760	35,760	0.00	Rm Exh Auxiliary	2,543 2,165 0		165 0
Sub Total ==>	84,423	1,755	86,178	18.55	81,481	59.57	Sub To		35,760	35,760	) -10.02				Ĵ
Ceiling Load Ventilation Load	6,087 0 49,203	-6,087 0	0 310,090 49,203	0.00 66.74 10.59	6,230 0 49.060	4.55 0.00 35.87	Ceiling Lo Ventilatio	on Load	-3,397 0	) -356,997 -32,426	99.98	ENGIN	IEERING Cooling		4 <sup>1</sup> 112 av
Ov/Undr Sizing Exhaust Heat Sup. Fan Heat	49,203	0	49,203 0 14,813	0.00	49,060	35.67	Exhaust I OA Prehe	Heat	-32,426	-32,420 (	0.00	% OA cfm/ft²	73.1 5.47		73.1 5.47
Ret. Fan Heat Duct Heat Pkup Reheat at Desig	n	0 0	0 0 0	0.00 0.00 0.00			RA Prehe Additiona			C C		cfm/ton ft²/ton Btu/hr-ft²	166.39 30.40 394.75	-303	3.42
Grand Total ==>	139,713	0	464,616	100.00	136,771	100.00	Grand To	otal ==>	-63	-357,060	) 100.00	No. People	12		
	<b>otal Capacity</b> ton MBh		COIL SEL Coil Airflow cfm		<b>N</b> DB/WB/HR °F gr/lb	Leave DE °F	<b>3/WB/HR</b> °F gr/lb		AREAS Gross Total	Glass <sup>ft²</sup> (%)	HEA	TING COIL Capacity MBh	Coil Airflow		<b>Lvg</b> °F
Aux Clg	8.7 464.6 0.0 0.0	282.8 0.0	6,442 0	86.3 0.0	70.6 87.4 0.0 0.0	0.0 0	6.8 47.4 0.0 0.0	Floor Part	1,177 0		Main Htg Aux Htg	0.0	6,442 0	46.9 0.0	68.0 0.0
	0.0 0.0 8.7 464.6	0.0	0	0.0	0.0 0.0	0.0 (	0.0 0.0	ExFlr Roof Wall	0 1,177 0	0 0	Preheat Humidif	-205.4 0.0	6,442 0	18.3 0.0	46.9 0.0
	-0.7 -04.0							vvail	0	0 0	Opt Vent Total		0	0.0	0.0

Appendix IV-1

#### AHU 4

	COOLING (		K		CLG SPA	CE PEAK			HEATING C	OIL PEAK		ТЕМІ	PERATUR	ES	
	Peaked at Time: Outside Air: Space Sens. + Lat.		o/Hr: 7 / 15 /HR: 93 / 75 /	102	Mo/H OADE	r: 6 / 16 3: 92			Mo/Hr: 1 OADB:			SADB Plenum	<b>Cooling</b> 48.8 83.9	6	t <b>ing</b> 58.0 58.9
	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h		Percent Of Total (%)	Sensib	e Percent e Of Total h (%)			Space Peak Space Sens Btu/h		C Percent C Of Total	Return Ret/OA Fn MtrTD	68.0 84.8 0.2	6	58.0 22.4 0.0
Envelope Loads Skylite Solar		0	0	0.00		0 0.00	Envelope Skylite		0	(	. ,	Fn BldTD Fn Frict	0.5		0.0 0.0 0.0
Skylite Cond Roof Cond	0	0 4.201	0 4,201	0.00		0 0.00 0 0.00 0 0.00	Skylite Roof C	Cond	0	-3,276	0.00	1111100	1.4		0.0
Glass Solar Glass Cond	0	4,201	4,201	0.98		0 0.00 0 0.00 0 0.00	Glass Glass (	Solar	0	-3,276	0.00				
Wall Cond	0	0	0	0.00		0 0.00	Wall Co	ond	0	C	0.00	Α	RFLOWS		
Partition Exposed Floor	0		0 0	0.00 0.00		0 0.00 0 0.00	Partitio Expose	n ed Floor	0	(		Vent	Cooling 4,201	Heat 4.	t <b>ing</b> 201
Infiltration	0	4 004	0	0.00		0 0.00	Infiltrati	ion	0	(	0.00	Infil	0	,	0
Sub Total ==>	0	4,201	4,202	0.98		0 0.00		otal ==>	0	-3,277	7 1.03	Supply MinStop/Rh	6,261 6,261	,	261 261
Internal Loads Lights	6.089	1.522	7,612	1.78	6,08	9 4.54	Internal L Lights	_oads	0	(	0.00	Return Exhaust	4,425 2,365		425 365
People	5,677	1,022	5,677	1.33	2,83	8 2.12	People	•	0	C	0.00	Rm Exh	1,835		835
Misc Sub Total ==>	70,097 81,863	0 1,522	70,097 83,385	16.38 19.48	- ,		Misc Sub To	otal ==>	35,048 35,048	35,048 35,048		Auxiliary	0		0
Ceiling Load	5.724	-5.724	0	0.00	5.86	2 4.37	Ceiling L	ood	-3,276	C	0.00				ı
Ventilation Load	<b>i</b> 0	-5,724	277,223	64.76	-,	0 0.00	Ventilatio		0	-318,522	99.98	ENGIN	IEERING		
Ov/Undr Sizing Exhaust Heat Sup. Fan Heat	49,304	0	49,304 0 13,949	11.52 0.00 3.26		6 36.68	Ov/Undr Exhaust OA Prehe	Heat	-31,835	-31,835 ( (	0.00	% OA cfm/ft²	Cooling 67.1 5.51	6	t <b>ing</b> 67.1 5.51
Ret. Fan Heat Duct Heat Pkup Reheat at Desig	n	0 0	0 0 0	0.00 0.00 0.00			RA Prehe				0.00	cfm/ton ft²/ton Btu/hr-ft²	175.50 31.83 377.05		
Grand Total ==>	• 136,891	0	428,063	100.00	134,05	2 100.00	Grand To	otal ==>	-63	-318,586	6 100.00	No. People	11		
Т	otal Capacity ton MBh		COIL SEL Coil Airflow		<b>N</b> DB/WB/HR °F gr/lb	Leave DI °F	<b>B/WB/HR</b> °F gr/lb		AREAS Gross Total	Glass ft <sup>2</sup> (%)	HEA	ATING COIL Capacity MBh	SELECT Coil Airflow		<b>Lvg</b> °F
	35.7 428.1	265.1	6,261	84.8	69.5 84.0		6.7 47.2	Floor	1,135		Main Htg		6,261	46.8	68.0
Aux Clg Opt Vent	0.0 0.0 0.0 0.0	0.0 0.0	0 0	0.0 0.0	0.0 0.0 0.0 0.0		0.0 0.0 0.0 0.0	Part ExFlr	0 0		Aux Htg Preheat	0.0 -170.5	0 6,261	0.0 22.4	0.0 46.8
Total 3	35.7 428.1							Roof Wall	1,135 0	0 0 0 0	Humidif	0.0	0	0.0	0.0
											Opt Vent <i>Total</i>	0.0 -318.7	0	0.0	0.0

Appendix IV-1

#### AHU 5

						CLG SPA		<u> </u>		HEATING C	OIL PEAK		ТЕМ	PERATUR	ES	
Pe	Outside Air: Space			o/Hr: 7 / 15 /HR: 93 / 75 /	102		lr: 6 / 16 B: 92			Mo/Hr: 1 OADB:			SADB Plenum	<b>Cooling</b> 49.2 84.6	6	<b>ting</b> 68.0 58.9
	Se		Plenum Sens. + Lat Btu/h		Percent Of Total (%)	Sensib	ce Percent le Of Total /h (%)			Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	of Total	Return Ret/OA Fn MtrTD	68.0 79.8 0.2	6	68.0 35.9 0.0
Envelope Lo	ads	Dtu/H	Dta/H	Dta/H	(70)	Dia	(/0)	Envelope	Loads	Dtu/II	Dtu/i	(/0)	Fn BldTD	0.4		0.0
Skvlite Sola		0	0	0	0.00		0 0.00	Skylite		0	C	0.00	Fn Frict	1.3		0.0
Skylite Con	d	0	0	0	0.00		0 0.00	Skylite	Cond	0	Ċ	0.00		-		
Roof Cond		0	3.190	3,190	1.56		0 0.00	Roof C		0	-2,508					
Glass Solar		Ō	0	0	0.00		0 0.00	Glass S		0	_,					
Glass Cond		Ő	0	Ő	0.00		0 0.00	Glass (		Õ	Ċ					
Wall Cond	•	0	0	0 0	0.00		0 0.00	Wall Co		0	C		A	IRFLOWS		
Partition		0	0	0	0.00		0 0.00	Partitio		0	C			Cooling	Heat	41.00
Exposed Flo		0		0	0.00		0 0.00		ed Floor	0	C		Vent	Cooling		
	001	•								-				1,738	Т,	,738
Infiltration		0	0.400	0	0.00		0 0.00	Infiltrati		0	0		Infil	0		0
Sub Total =	=>	0	3,190	3,190	1.56		0 0.00	Sub To	otal ==>	0	-2,509	1.90	Supply	3,682	,	,682
	_							Internal L	aada				MinStop/Rh		- )	,682
Internal Load	ds								loads	0	-	0.00	Return	3,682		,682
Lights		5,470	1,368	6,838	3.35			Lights		0	C		Exhaust	1,738	1,	,738
People		4,346		4,346	2.13			People		0	C	0.00	Rm Exh	0		0
Misc		35,496	0	35,496	17.38	35,49	96 45.87	Misc		17,748	17,748	-13.46	Auxiliary	0		0
Sub Total =	=>	45,313	1,368	46,680	22.86	43,14	40 55.75	Sub To	otal ==>	17,748	17,748	-13.46				
Ceiling Load		4,557	-4,557	0	0.00			Ceiling L		-2,508	C		ENGI	NEERING	CKS	
Ventilation L		0	0	117,016	57.31		0 0.00	Ventilatio		0	-131,819					
Ov/Undr Sizi	ing	29,681		29,681	14.54		75 38.22	Ov/Undr	Sizing	-15,297	-15,297			Cooling		ting
Exhaust Hea	at		0	0	0.00			Exhaust	Heat		C	0.00	% OA	47.2	4	47.2
Sup. Fan Hea	at			7,615	3.73			OA Prehe	eat Diff.		C	0.00	cfm/ft <sup>2</sup>	4.24	4	4.24
Ret. Fan Hea	at		0	0	0.00			RA Prehe	eat Diff.		C	0.00	cfm/ton	216.40		
Duct Heat Pl	kup		0	0	0.00			Additiona	al Reheat		C	0.00	ft²/ton	51.08		
Reheat at De	esign		-	0	0.00								Btu/hr-ft <sup>2</sup>	234.91	-151	1.76
Grand Total	==>	79,551	0	204,182	100.00	77,37	78 100.00	Grand To	otal ==>	-58	-131,877	100.00	No. People	9		
					FCTIO	)N				AREAS		HEA		SELECT		
	Tota ton	I Capacity MBh		Coil Airflow		<b>DB/WB/HR</b> °F gr/lb	Leave D °F	<b>B/WB/HR</b> °F gr/lb		Gross Total	Glass ft <sup>2</sup> (%)			Coil Airflow cfm		Lvg °F
Main Clg	17.0		133.5	3,682	79.8	65.7 72.2		6.3 45.0	Floor	869	,	Main Htg	-85.1	3,682	47.3	68.0
Aux Clg	0.0	-	0.0	0,002	0.0	0.0 0.0		0.0 0.0	Part	0		Aux Hta	0.0	0,002	0.0	0.0
Opt Vent	0.0		0.0	0	0.0	0.0 0.0		0.0 0.0	ExFir	0		Preheat	-46.8	3.682	35.9	47.3
Opt vent	0.0	0.0	0.0	0	0.0	0.0 0.0	0.0	0.0 0.0	Roof	869	0 0	rieneat	-40.0	5,002	55.9	47.3
Total	17.0	204.2							Wall	0	0 0	Humidif	0.0	0	0.0	0.0
illai	17.0	204.2							wall	0	0 0		0.0	0		
												Opt Vent		0	0.0	0.0
												Total	-131.9			

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#### AHU 6

	COOLING COIL PEAK Peaked at Time: Mo/Hr: 7 / 15 Outside Air: OADB/WB/HR: 93 / 75 / 1				CLG SPAC	E PEAK			HEATING C	OIL PEAK		TEM	PERATUR	ES	
				102	Mo/Hr: OADB:				Mo/Hr: 1 OADB:			SADB Plenum	<b>Cooling</b> 49.3 84.5	6	t <b>ing</b> 58.0 58.9
	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h		Percent Of Total (%)	Sensible				Space Peak Space Sens Btu/h		C Percent C Of Total	Return Ret/OA Fn MtrTD	68.0 79.5 0.2	6	58.0 56.8 0.0
Envelope Loads Skylite Solar		0	0	0.00		0.00	Envelope Skylite		0	(	. ,	Fn BldTD Fn Frict	0.4		0.0 0.0 0.0
Skylite Cond Roof Cond	0 0 0	0 2,966 0	0 2,966	0.00	0	0.00	Skylite Roof Co	ond	0 0 0	( -2,331	1.90				
Glass Solar Glass Cond Wall Cond	0	0	0 0 0	0.00 0.00 0.00	0		Glass S Glass C Wall Co	Cond	0	( ( (	0.00	Α	IRFLOWS		
Partition Exposed Floor	0	C C	0	0.00 0.00	0	0.00	Partitio Expose	n ed Floor	0	(	0.00 0.00	Vent	<b>Cooling</b> 1,616	Heat	t <b>ing</b> 616
Infiltration Sub Total ==>	0 0	2,966	0 2,966	0.00 1.55		0.00 0.00	Infiltrati Sub To		0 0	) -2,332		Infil Supply MinStop/Rh	0 3,524 3,524		0 524 524
Internal Loads Lights	5,057	1,264	6,322	3.30	5,057	6.86	Internal L Lights		0	(		Return Exhaust	3,524 3,524 1,616	3,	524 524 616
People Misc	4,040 33,314	0	4,040 33,314	2.11 17.38	33,314	45.21	People Misc		0 16,657 16,657	( 16,657 16,657	-13.59	Rm Exh Auxiliary	0 0		0 0
Sub Total ==> Ceiling Load	42,411 4,230	1,264 -4,230	43,675 0	22.79 0.00		54.82 5.87	Sub To		16,657 -2,331	(co,or				<u> </u>	
Ventilation Load		0	108,697 29,062	56.71 15.16	0 28,964	0.00	Ventilatio	on Load Sizing	0 -14,384	-122,522 -14,384	2 99.95 11.73		NEERING Cooling	Heat	
Exhaust Heat Sup. Fan Heat Ret. Fan Heat		0	0 7,267 0	0.00 3.79 0.00			Exhaust I OA Prehe RA Prehe	eat Diff.		( ( (	0.00	% OA cfm/ft <sup>2</sup> cfm/ton	45.9 4.36 220.63		15.9 1.36
Duct Heat Pkup Reheat at Desig		0	0 0	0.00			Additiona			(		ft²/ton Btu/hr-ft²	50.58 237.24	-151	1.77
Grand Total ==>	• 75,703	0	191,667	100.00	73,683	100.00	Grand To	otal ==>	-59	-122,581	100.00	No. People	0		
Т	<b>otal Capacity</b> ton MBh		COIL SEL Coil Airflow cfm		<b>)N DB/WB/HR</b> °F gr/lb	Leave DE °F	<b>3/WB/HR</b> °F gr/lb		AREAS Gross Total	Glass ft² (%)	HEA	TING COIL Capacity MBh	SELECT Coil Airflow		Lvg °F
Aux Clg	16.0 191.7 0.0 0.0	126.0 0.0	3,524 0	79.5 0.0	65.4 71.5 0.0 0.0	0.0	6.4 45.1 0.0 0.0	Floor Part	808 0	. ,	Main Htg Aux Htg	0.0	3,524 0	47.4 0.0	68.0 0.0
Opt Vent	0.0 0.0 6.0 191.7	0.0	0	0.0	0.0 0.0	0.0 (	0.0 0.0	ExFlr Roof Wall	0 808 0	0 0	Preheat Humidif	-41.6 0.0	3,524 0	36.8 0.0	47.4 0.0
, otar	10.0 191.7							vvali	0	0 0	Opt Vent Total		0	0.0	0.0

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#### AHU 7

	COOLING COIL PEAK Peaked at Time: Mo/Hr: 7 / 15 Outside Air: OADB/WB/HR: 93 / 75 /					CLG SPAC	E PEAK	,		HEATING C	OIL PEAK		TEM	PERATUR	ES	
Pe	Outside Air: Space				102	Mo/Hr: OADB:				Mo/Hr: 1 OADB:			SADB Plenum	<b>Cooling</b> 51.0 84.6	6	t <b>ing</b> 68.0 58.9
	Se		Plenum Sens. + Lat Btu/h		Percent Of Total (%)	Sensible				Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	of Total	Return Ret/OA Fn MtrTD	68.0 93.0 0.2	e	68.0 0.0 0.0
Envelope Loa	ads	Btain	Dtain	Brain	(//)	Diam	(/0)	Envelope	Loads	Dta/II	Dia	. (/0)	Fn BldTD	0.5		0.0
Skylite Solar		0	0	0	0.00		0.00	Skylite S		0	C		Fn Frict	1.4		0.0
Skylite Cond	ł	0	0	0	0.00	0	0.00	Skylite 0		0	C					
Roof Cond		0	7,346	7,346	1.04	0	0.00	Roof Co	nd	0	-5,784	0.92				
Glass Solar		0	0	0	0.00	0	0.00	Glass S	olar	0	Ċ	0.00				
Glass Cond		0	0	0	0.00	0	0.00	Glass C	ond	0	C	0.00				
Wall Cond		0	0	0	0.00	0	0.00	Wall Co	nd	0	C	0.00	A	RFLOWS		
Partition		Ő	C C	0 0	0.00	-		Partition		Ő	Č			Cooling	Hea	tina
Exposed Flo	or	Ő		0 0	0.00	-		Exposed		0	Ċ		Vent	8,335		.335
Infiltration		1		1	0.00	-	0.00	Infiltratio		-1	-1		Infil	0,000	ο,	0
Sub Total =	=>	1	7,346	7,346	1.04		0.00	Sub Tot		-1	-5,786	0.00	Supply	8,335	8	.335
	-		1,010	1,010	1.01		0.00		ui		0,100	0.02	MinStop/Rh			.335
Internal Load	le							Internal Lo	bads				Return	1,032		,032
Lights	13	12,901	3,225	16.126	2.28	12,901	8.18	Lights		0	C	0.00	Exhaust	1,032		.032
People		10.022	0,220	10,022	1.42		3.18	People		0	C		Rm Exh	7.303		.303
Misc		97,750	0	97,750	13.84	- / -	62.02	Misc		48.875	48,875		Auxiliary	7,505	7,	,505
Sub Total ==						· · ·		Sub Tot	al .	48,875	48,875		Auxiliary	0		0
Sub Total =	=>	120,673	3,225	123,898	17.54	115,662	13.30	SUD TOL	ai ==>	40,070	40,070	0 -1.13				
Ceiling Load		10,571	-10,571	0	0.00			Ceiling Lo		-5,784	C		ENGIN		скя	
Ventilation L		0	0	524,645	74.29			Ventilation		0	-631,996					
Ov/Undr Sizi		31,387		31,387	4.44		19.76	Ov/Undr S		-43,235	-43,235			Cooling		
Exhaust Heat	-		0	0	0.00			Exhaust H			C		% OA	100.0		00.0
Sup. Fan Hea	at			18,966	2.69			OA Prehea			C	0.00	cfm/ft <sup>2</sup>	4.16	4	4.16
Ret. Fan Hea	t		0	0	0.00			RA Prehea	at Diff.		C	0.00	cfm/ton	141.62		
Duct Heat Pk	up		0	0	0.00			Additiona	Reheat		C	0.00	ft²/ton	34.06		
Reheat at De	sign			0	0.00								Btu/hr-ft <sup>2</sup>	352.35	-448	8.29
0	-	400.000	0	700.040	400.00	457.004	400.00	0	- 1	1.10	000 4 40	400.00	No. People	20		
Grand Total :	==>	162,632	0	706,243	100.00	157,621	100.00	Grand To	al ==>	-146	-632,142	2 100.00				
	Total ton	Capacity MBh		COIL SEI		<b>)N</b> DB/WB/HR °F gr/lb	Leave DI °F	<b>B/WB/HR</b> °F gr/lb		AREAS Gross Total	Glass ft² (%)	HEA	TING COIL Capacity MBh	SELECT Coil Airflow		<b>Lvg</b> °F
					-	3	-	3.	<b>-1</b>	0.004	(//)	Main III			-	-
Main Clg	58.9	706.2	408.9	8,335	93.0	75.0 101.9		8.9 51.4	Floor	2,004		Main Htg	-176.8	8,335	49.0	
Aux Clg	0.0	0.0	0.0	0	0.0	0.0 0.0		0.0 0.0	Part	0		Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0 0.0	0.0	0.0 0.0	ExFlr	0		Preheat	-455.4	8,335	0.0	49.0
									Roof	2,004	0 0					40 -
Total	58.9	706.2							Wall	0	0 0	Humidif	-266.3	8,335	1.1	46.7
												Opt Vent	0.0	0	0.0	0.0
									1			Total	-898.6			

Appendix IV-1

#### AHU 8

	COOLING COIL PEAK Peaked at Time: Mo/Hr: 7 / 15 Outside Air: OADB/WB/HR: 93 / 75 / 10				CLG SPAC	E PEAK			HEATING C	OIL PEAK		ТЕМ	PERATUR	ES	
				102	Mo/Hr: OADB:				Mo/Hr: <sup>7</sup> OADB:			SADB Plenum	<b>Cooling</b> 49.5 83.3		<b>ing</b> 0.0 8.3
	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h		Percent Of Total (%)	Sensible	Percent Of Total (%)			Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	of Total	Return Ret/OA Fn MtrTD	68.0 83.4 0.2	6 2	8.0 6.2 0.0
Envelope Loads		Brain	Dtain	(/0)	Bian	(70)	Envelope	Loads	Dtain	Dtail	. (///	Fn BldTD	0.5		0.0
Skylite Solar	0	0	0	0.00	0	0.00	Skylite S	Solar	0	C	0.00	Fn Frict	1.6		0.0
Skylite Cond	0	0	0	0.00	0	0.00	Skylite 0	Cond	0	C	0.00				
Roof Cond	0	7,964	7,964	1.58	0	0.00	Roof Co	ond	0	-6,632	2 1.80				
Glass Solar	32,213	, 0	32,213	6.40	32,213	20.67	Glass S	olar	0	Ć	0.00				
Glass Cond	3,493	0	3,493	0.69		2.24	Glass C	ond	-17,482	-17,482	2 4.74				
Wall Cond	77	274	351	0.07	125	0.08	Wall Co	nd	-137	-641	0.17	A	RFLOWS		
Partition	0		0	0.00		0.00	Partition	)	0	C	-		Coolina	Heati	ina
Exposed Floor	Ő		Õ	0.00	-	0.00	Exposed		0 0	C		Vent	4,643		543
Infiltration	0		Õ	0.00		0.00	Infiltratio		-1	-1		Infil	1,010	1,0	0
Sub Total ==>	35.784	8.238	44.022	8.75		22.99	Sub Tot		-17.620	-24,756		Supply	7,551	7,5	
	00,701	0,200	11,022	0.10	00,002	22.00	000 / 00	ui	11,020	21,700	0.12	MinStop/Rh		7.5	
Internal Loads							Internal Lo	oads				Return	5,780		780
Lights	12.045	3.011	15.056	2.99	12.045	7.73	Lights		0	C	0.00	Exhaust	2.871	2.8	
People	11,608	3,011	11,608	2.31	5.804	3.72	People		0	C		Rm Exh	1.772		772
Misc	37,424	0	37,424	7.44	- ,	24.01	Misc		18,712	18,712	0.00	Auxiliary	1,772	1,1	0
Sub Total ==>	61,077	3,011	64,088	12.73		35.46	Sub Tot	61	18,712	18,712		Auxiliary	0		0
Sub 10tal ==>	01,077	3,011	04,000	12.75	55,275	55.40	Sub 101	ai ==>	10,712	10,712	-5.00				
Ceiling Load	11,249	-11,249	0	0.00		7.38	Ceiling Lo		-7,136	C		ENGIN		CKS	
Ventilation Load		0	303,173	60.23		0.00	Ventilation		0	-352,068			-		
Ov/Undr Sizing	71,909		71,909	14.29		34.17	Ov/Undr S		-10,363	-10,363			Cooling	Heati	
Exhaust Heat		0	0	0.00			Exhaust H	leat		C		% OA	61.5		1.5
Sup. Fan Heat			20,137	4.00			OA Prehe	at Diff.		C	0.00	cfm/ft <sup>2</sup>	3.25	3	.25
Ret. Fan Heat		0	0	0.00			RA Prehea	at Diff.		C	0.00	cfm/ton	180.04		
Duct Heat Pkup		0	0	0.00			Additiona	I Reheat		C	0.00	ft²/ton	55.35		
Reheat at Desig	n		0	0.00								Btu/hr-ft <sup>2</sup>	216.81	-82	.89
Grand Total ==>	180,019	0	503,329	100.00	155,855	100.00	Grand To	tol	-16,406	-368,474	100.00	No. People	23		
Grand Total ==:	180,019	-	,		,	100.00	Granu To	lai ==>	,	-300,474	1				
r	ton MBh		COIL SEL Coil Airflow		N DB/WB/HR °F gr/lb	Leave DI °F	<b>B/WB/HR</b> °F gr/lb		AREAS Gross Total	Glass ft <sup>2</sup> (%)	HEA	TING COIL Capacity MBh	Coil Airflow		<b>Lvg</b> °F
Main Clg 4	1.9 503.3	325.7	7.551	83.4	68.6 81.4	47.1 40	6.0 44.4	Floor	2,322	``	Main Htg	-192.4	7.551	47.1	70.0
	0.0 0.0	0.0	7,001	0.0	0.0 0.0		0.0 0.0	Part	2,522		Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0 0.0	0.0	0	0.0	0.0 0.0		0.0 0.0	ExFir	0		Preheat	0.0	7.551	26.2	47.1
Obr Actur	0.0 0.0	0.0	0	0.0	0.0 0.0	0.0 0	5.5 0.0	Roof	2,322	0 0	rieneat	0.0	7,551	20.2	47.1
Total 4	1.9 503.3							Wall	674	407 60	Humidif	0.0	0	0.0	0.0
	1.3 000.0							wail	074	407 00	Opt Vent	0.0	0	0.0	0.0
													U	0.0	0.0
											Total	-192.4			

Appendix IV-1

#### AHU 9

	со	OLING (		ĸ		CLG SPAC	E PEAK	<u> </u>		HEATING C	OIL PEAK		TEM	PERATUR	ES	
Pe	Peaked at Time: Outside Air: Space Sens + Lat			o/Hr: 7 / 15 /HR: 93 / 75 /	102	Mo/Hr OADB	: 6 / 16 : 92			Mo/Hr: 1 OADB:			SADB Plenum	<b>Cooling</b> 49.0 83.4		<b>ting</b> 68.1 58.9
	Se		Plenum Sens. + Lat Btu/h		Percent Of Total (%)	Sensible	Percent Of Total			Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	6 Of Total	Return Ret/OA Fn MtrTD	68.0 76.7 0.2	e	68.0 44.3 0.0
Envelope Lo	bads	Btain	Dta/H	Brain	(/0)	Bran	(/0)	Envelope	Loads	Diam	Bran	. (/0)	Fn BldTD	0.5		0.0
Skylite Sola	ar	0	0	0	0.00	0	0.00	Skylite		0	C		Fn Frict	1.4		0.0
Skylite Con	d	0	0	0	0.00	0	0.00	Skylite	Cond	0	C					
Roof Cond		0	8,308	8,308	2.72	0	0.00	Roof C	ond	0	-6,431					
Glass Solar	r	0	0	0	0.00	0	0.00	Glass S	Solar	0	(					
Glass Cond	ł	0	0	0	0.00	0	0.00	Glass C	Cond	0	(	0.00		RFLOWS		
Wall Cond		0	0	0	0.00	0	0.00	Wall Co	ond	0	C	0.00	A	RFLOW5		
Partition		0	-	0	0.00	0	0.00	Partitio	n	0	C	0.00		Cooling	Heat	tina
Exposed FI	oor	0		0	0.00	0	0.00	Expose	d Floor	0	Ċ	0.00	Vent	2,228		228
Infiltration		Ō		0	0.00			Infiltrati		-1	-1		Infil	_,0	_,	0
Sub Total =	=>	Ő	8.308	8,308	2.72			Sub To		-1	-6.431		Supply	6.381	6.	.381
		-	-,	-,							-,		MinStop/Rh		- )	381
Internal Loa	eh							Internal L	.oads				Return	6,266		266
Lights	45	10.114	2.528	12.642	4.13	10.114	7.50	Lights		0	(	0.00	Exhaust	2,113		113
People		11,142	2,020	11,142	3.64	- /		People		0	Ċ	0.00	Rm Exh	115	,	115
Misc		21,712	0	21,712	7.10			Misc		10,856	10,856	0.00	Auxiliary	0		0
Sub Total =		42.968	2.528	45,497	14.87	· · ·		Sub To	tol	10,856	10,856		Auxiliary	0		0
Sub Tolar =	/	42,900	2,520	45,497	14.07	57,597	21.12	300 10	lai>	10,850	10,050	-0.40				
Ceiling Load		10,837	-10,837	0	0.00	· · · ·		Ceiling L		-6,431	C		ENGIN		CKS	
Ventilation L		0	0	150,954	49.34		0.00	Ventilatio		0	-168,974					
Ov/Undr Sizi	•	86,667		86,667	28.33		64.04	Ov/Undr		-5,038	-5,038			Cooling	Heat	
Exhaust Hea			0	0	0.00			Exhaust			(		% OA	34.9		34.9
Sup. Fan He	at			14,520	4.75			OA Prehe	eat Diff.		C		cfm/ft <sup>2</sup>	2.86	2	2.86
Ret. Fan Hea	at		0	0	0.00			RA Prehe	eat Diff.		C	0.00	cfm/ton	250.27		
Duct Heat Pl	kup		0	0	0.00			Additiona	al Reheat		C	0.00	ft²/ton	87.40		
Reheat at De	esign			0	0.00								Btu/hr-ft <sup>2</sup>	137.29	-67	7.33
Grand Total		140,472	0	205 047	100.00	134.901	100.00	Grand To	tol	-613	-169,587	7 100.00	No. People	22		
Grand Total	==>	140,472	0	305,947	100.00	134,90	100.00	Grand To	ntai ==>	-013	-109,007	100.00				
	<b>Total</b> ton	Capacity MBh		COIL SEL Coil Airflow cfm		N DB/WB/HR °F gr/lb	Leave DI °F	<b>B/WB/HR</b> °F gr/lb		AREAS Gross Total	Glass ft² (%)	HEA	TING COIL Capacity MBh	Coil Airflow		<b>Lvg</b> °F
Main Clg	25.5	306.0	211.5	6.381	76.7	63.2 64.9	47.0 4	5.8 43.9	Floor	2,228		Main Htg	-150.1	6,381	47.0	68.1
Aux Clg	0.0	0.0	0.0	0	0.0	0.0 0.0		0.0 0.0	Part	_,0		Aux Htg	0.0	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0 0.0		0.0 0.0	ExFir	0		Preheat	0.0	6,381	44.3	47.0
	0.0	0.0	0.0	0	0.0	5.0 0.0	0.0		Roof	2,228	0 0		0.0	0,001		
Total	25.5	306.0							Wall	0	0 0	Humidif	0.0	0	0.0	0.0
	20.0	000.0								5	ũ ũ	Opt Vent	0.0	0	0.0	0.0
												Total	-150.1	0	0.0	0.0
												IUIdi	-150.1			

#### AHU 10

#### Variable Volume Reheat (30% Min Flow Default)

	COOL	ING C		ĸ		CLG S	PACE	E PEAK	<u> </u>		HEATING	COIL PE	EAK		TEM	PERATUR	ES	
	Peaked at Time: Outside Air: Space Sens. + Lat.			o/Hr: 7 / 16 /HR: 93 / 74 /	100		Mo/Hr: DADB:	• / · ·			Mo/Hr: OADB:				SADB Plenum	<b>Cooling</b> 57.1 77.1	9	<b>ting</b> 90.8 69.8
			Plenum Sens. + Lat Btu/h		Percent Of Total (%)	Sei		Percent Of Total (%)			Space Peak Space Sens Btu/h	Tot		Percent Of Total (%)	Return Ret/OA Fn MtrTD	77.1 80.4 0.3	6	69.8 25.6 0.0
Envelope Loads	5				. ,		210/11		Envelope					、	Fn BldTD	0.7		0.0
Skylite Solar		0	0	0	0.00		0	0.00	Skylite S		0		0	0.00	Fn Frict	2.0		0.0
Skylite Cond		0	0	0	0.00		0	0.00	Skylite (		0		0	0.00				
Roof Cond		0	53,935	53,935	4.97		0	0.00	Roof Co		0		4,218	5.73				
Glass Solar		8,235	0	338,235	31.18		50,068	59.45	Glass S		0		0	0.00				
Glass Cond	4	6,298	0	46,298	4.27		39,922	6.78	Glass C		-203,273		3,273	26.35	Δ	RFLOWS		
Wall Cond		0	2,585	2,585	0.24		0	0.00	Wall Co		0		3,567	0.46				
Partition		0		0	0.00		0	0.00	Partitior		0		0	0.00		Cooling	Heat	
Exposed Floor		0		0	0.00		0	0.00	Expose		0		0	0.00	Vent	6,295	6,	,295
Infiltration		0		0	0.00		0	0.00	Infiltratio		-2		-2	0.00	Infil	0		0
Sub Total ==>	38	4,533	56,520	441,053	40.66	38	89,991	66.23	Sub Tot	'al ==>	-203,275	-25	1,060	32.54	Supply MinStop/Rh	29,549 9.939		,939 .939
Internal Loads									Internal L	oads					Return	29.305		.696
Lights	7	5.973	18,993	94,966	8.75	7	75,973	12.90	Lights		0		0	0.00	Exhaust	6,052		052
People		4.825	10,335	84.825	7.82		7.125	8.00	People		0		Õ	0.00	Rm Exh	243		243
Misc		7,485	0	67,485	6.22		67.485	11.46	Misc		33,742		3,742	-4.37	Auxiliary	243		243
Sub Total ==>		8,283	18,993		22.79		0.583	32.36	Sub Tot	61	33,742		3,742	-4.37	Auxiliary	0		0
Sub Total ==>	22	0,203	16,993	247,276	22.19		0,563	32.30	Sub Tol	ai ==>	33,742	3	3,742	-4.37				
Ceiling Load		8,478	-8,478	0	0.00		8,306	1.41	Ceiling Lo		-13,131		0	0.00	ENGIN		cke	
Ventilation Loa	k	0	0	314,880	29.02		0	0.00	Ventilatio	n Load	0	-51	2,414	66.42	ENGIN	IEEKING	CNS	
Ov/Undr Sizing		0		0	0.00		0	0.00	Ov/Undr S	Sizing	0		0	0.00		Cooling	Heat	ting
Exhaust Heat			-13,964	-13,964	-1.29				Exhaust H	leat		2	1,629	-2.80	% OA	21.3	6	63.3
Sup. Fan Heat				95,616	8.81				OA Prehe	at Diff.			0	0.00	cfm/ft <sup>2</sup>	2.29	(	0.77
Ret. Fan Heat			0	0	0.00				RA Prehe	at Diff.		-6	3,375	8.21	cfm/ton	326.85		
Duct Heat Pkup			0	0	0.00				Additiona	I Reheat			0	0.00	ft²/ton	143.02		
Reheat at Desig	n			0	0.00										Btu/hr-ft <sup>2</sup>	83.91	-60	0.76
		4 000	50.074	4 00 4 000	400.00	-	0.070	400.00	0		100.004		4 470	100.00	No. People	189		
Grand Total ===	► 62	1,293	53,071	1,084,860	100.00	58	88,879	100.00	Grand To	tal ==>	-182,664	-//	1,478	100.00				
-	f <b>otal Cap</b> ton			COIL SEL Coil Airflow		DN DB/WB/H °F gr/		Leave DI °F	<b>B/WB/HR</b> °F gr/lb		AREAS Gross Total	Glass	(%)	HEA	TING COIL Capacity MBh	SELECT Coil Airflow		Lvg °F
Main Clg		084.9	855.1	29,283	80.4	64.6 65			2.1 54.5	Floor	12,929			Main Htg	-405.1	9.939	54.2	90.8
	90.4 1, 0.0	084.9	855.1 0.0	29,283	80.4 0.0		.7 .0		2.1 54.5 0.0 0.0						-405.1	- )	54.2 0.0	90.8 0.0
Aux Clg				0			-			Part	0			Aux Htg		0		
Opt Vent	0.0	0.0	0.0	0	0.0	0.0 0	.0	0.0	0.0 0.0	ExFlr Roof	0 12,929	0	0	Preheat	-380.5	6,295	0.0	54.2
Total	1 1 00	084.9									5,687		-	Humidif	0.0	0	0.0	0.0
TOTAL	90.4 1,	064.9								Wall	0,007	4,409	-		0.0	0		
														Opt Vent		U	0.0	0.0
														Total	-785.5			

Appendix IV-1

#### AHU 11

	COOLING COIL PEAK Peaked at Time: Mo/Hr: 7 / 14 Outside Air: OADB/WB/HR: 93 / 75 / 10				CLG SPAC	E PEAK			HEATING C	OIL PEAK		TEMF	PERATUR	ES	
	Outside Air: Space Sens. + Lat.			102	Mo/Hr: OADB:				Mo/Hr: 1 OADB:			SADB Plenum	<b>Cooling</b> 53.3 87.9	7	<b>ing</b> 2.5 2.9
	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h		Percent Of Total (%)	Sensible	Percent Of Total (%)			Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Of Total	Return Ret/OA Fn MtrTD	72.0 84.3 0.2	71 20	2.0 8.8 0.0
Envelope Loads Skylite Solar Skylite Cond	0 0	0	0	0.00 0.00	0	0.00 0.00	Envelope Skylite S Skylite (	Solar Cond	0	C	0.00	Fn BldTD Fn Frict	0.5 1.5		0.0 0.0
Roof Cond Glass Solar Glass Cond	0 19,714 3,010	5,138 0 0	5,138 19,714 3,010	1.33 5.10 0.78	50,764 -1,541	0.00 41.32 -1.25	Roof Co Glass S Glass C	olar Cond	0 0 -11,504	-4,822 0 -11,504	0.00		RFLOWS		
Wall Cond Partition Exposed Floor	0 0 0	0	0 0 0	0.00 0.00 0.00	0	0.00 0.00 0.00	Wall Co Partitior Expose	n d Floor	0 0 0		0.00	Vent	<b>Cooling</b> 3,531	Heati	531
Infiltration Sub Total ==>	0 22,724	5,138	0 27,862	0.00 7.20		0.00 40.06	Infiltratio Sub Tor	tal ==>	-1 -11,504	-1 -16,326	0.00	Infil Supply MinStop/Rh Return	0 5,884 5,884 4,497	5,8	0 384 384 197
Lights People Misc Sub Total ==>	12,901 8,328 50,162 71,391	3,225 0 3.225	16,126 8,328 50,162 74,616	4.17 2.15 12.97 19.29	50,162	10.50 3.39 40.83 54.71	Lights People Misc Sub Tot	tol	0 0 25,081 25.081	0 0 25,081 25,081	0.00 -8.75	Exhaust Rm Exh Auxiliary	2,143 1,387 0	2,1 1,3	143 387 0
Ceiling Load Ventilation Load	8,364 0	-8,364 0	0 242,478	0.00 62.68	6,420 0	5.22 0.00	Ceiling Lo Ventilatio	oad n Load	-4,822 0	0 -283,464	0.00 98.92	ENGIN	IEERING		
Ov/Undr Sizing Exhaust Heat Sup. Fan Heat Ret. Fan Heat Duct Heat Pkup	26,956	0 0 0	26,956 0 14,924 0 0	6.97 0.00 3.86 0.00 0.00		0.00	Ov/Undr S Exhaust H OA Prehe RA Prehe Additiona	leat at Diff. at Diff.	-11,850	-11,850 0 0 0 0	0.00 0.00 0.00	% OA cfm/ft² cfm/ton ft²/ton	Cooling 60.0 3.53 182.54 51.67	60 3.	0.0 .53
Reheat at Design Grand Total ==>		0	0 386,837	0.00		100.00	Grand To	tal ==>	-3,095	-286,559	100.00	Btu/hr·ft <sup>2</sup> No. People	232.26 17	-239	.81
	<b>otal Capacity</b> ton MBh	COOLING Sens Cap. MBh	COIL SEL Coil Airflow cfm		N DB/WB/HR °F gr/lb	Leave DI °F	<b>B/WB/HR</b> °F gr/lb		AREAS Gross Total	Glass ft² (%)	HEA	TING COIL Capacity MBh	SELECT Coil Airflow		<b>Lvg</b> °F
Aux Clg	2.2386.80.00.00.00.0	222.9 0.0 0.0	5,884 0 0	84.3 0.0 0.0	67.8 75.8 0.0 0.0 0.0 0.0	0.0	5.2 35.4 0.0 0.0 0.0 0.0	Floor Part ExFlr	1,666 0 0		Main Htg Aux Htg Preheat	-140.9 0.0 -145.7	5,884 0 5,884	0.0	72.5 0.0 51.0
Total 3	2.2 386.8							Roof Wall	1,566 253	0 0 253 100	Humidif Opt Vent <i>Total</i>	-112.8 0.0 -399.4	3,531 0	1.1 0.0	46.7 0.0

Appendix IV-1

#### AHU 12

	coc	DLING (		K		CLG SPA		K		HEATING C	OIL PEAK		TEM	PERATUR	ES	
Pea	aked at 7 Outside			o/Hr: 7 / 15 /HR: 93 / 75 /	102	Mo/H OADE	r: 7 / 16 3: 93			Mo/Hr: 1 OADB:			SADB Plenum	<b>Cooling</b> 54.2 88.1	7	<b>ting</b> 72.1 62.2
	Sen	Space is. + Lat. Btu/h	Plenum Sens. + Lat Btu/h		Percent Of Total (%)	Sensib	e Percent e Of Total h (%)			Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Of Total	Return Ret/OA Fn MtrTD	72.0 79.4 0.3	-	72.0 46.8 0.0
Envelope Loa	ds				. ,			Envelope				、 ,	Fn BldTD	0.8		0.0
Skylite Solar		0	0	0	0.00		0 0.00	Skylite		0	0	0.00	Fn Frict	2.3		0.0
Skylite Cond		0	0	0	0.00		0 0.00	Skylite		0	0					
Roof Cond		0	28,360	28,360	3.75		0 0.00	Roof Co		0	-24,726					
Glass Solar		0	0	0	0.00		0 0.00	Glass S		0	0					
Glass Cond		0	0	0	0.00		0 0.00	Glass C		0	0		Δ	IRFLOWS		
Wall Cond		171	286	457	0.06			Wall Co		-242	-754					
Partition		0		0	0.00		0 0.00	Partition		0	0			Cooling	Hea	
Exposed Flo	or	0		0	0.00		0 0.00	Expose		0	0		Vent	5,870	5,	870
Infiltration		0		0	0.00		0 0.00	Infiltrati		-2	-2		Infil	0		0
Sub Total ==	->	171	28,645	28,817	3.81	15	7 0.05	Sub To	tal ==>	-244	-25,482	5.39	Supply	16,773		773
													MinStop/Rh			773
Internal Loads	s							Internal L	oads	•			Return	14,474		474
Lights		51,127	12,782	63,908	8.45			Lights		0	0		Exhaust	3,571	,	571
People		40,574		40,574	5.37			People		0	0	0.00	Rm Exh	2,299	2,	299
Misc		219,349	0	219,349	29.02			Misc		109,675	109,675		Auxiliary	0		0
Sub Total ==	>	311,050	12,782	323,832	42.84	290,76	3 87.24	Sub To	tal ==>	109,675	109,675	-23.21				
Ceiling Load		41,427	-41,427	0	0.00	,	-	Ceiling Lo		-25,238	0		ENGIN		CKG	
Ventilation Lo		0	0	339,077	44.86		0 0.00	Ventilatio		0	-471,330					
Ov/Undr Sizin	5	939		939	0.12		0 0.00	Ov/Undr S	- 3	-85,358	-85,358			Cooling		
Exhaust Heat			0	0	0.00			Exhaust H	leat		0		% OA	35.0		35.Ū
Sup. Fan Heat	t			63,215	8.36			OA Prehe	at Diff.		0	0.00	cfm/ft <sup>2</sup>	2.07		2.07
Ret. Fan Heat			0	0	0.00			RA Prehe	at Diff.		0	0.00	cfm/ton	266.28		
Duct Heat Pki	up		0	0	0.00			Additiona	I Reheat		0	0.00	ft²/ton	128.83		
Reheat at Des	sign			0	0.00								Btu/hr-ft <sup>2</sup>	93.15	-8	1.36
Grand Total =		353.587	0	755.880	100.00	333.30	0 100.00	Grand To	tal>	-1.165	-472.496	100.00	No. People	81		
Grand Total =	_/	555,507	-	,			0 100.00	Grand TO		,	-472,430					
	Total ( ton	Capacity MBh		COIL SEL Coil Airflow cfm		<b>DB/WB/HR</b> °F gr/lb	Leave D °F	<b>B/WB/HR</b> °F gr/lb		AREAS Gross Total	Glass ft <sup>2</sup> (%)	HEA	TING COIL Capacity MBh	SELECT Coil Airflow cfm		<b>Lvg</b> °F
Main Clg	63.0	755.9	534.0	16.773	79.4	65.1 70.1	50.8 4	9.7 51.4	Floor	8.115	. ,	Main Htg	-397.9	16.773	50.8	72.1
Aux Clg	0.0	0.0	0.0	0	0.0	0.0 0.0		0.0 0.0	Part	0,115		Aux Hta	-397.9	0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0 0.0		0.0 0.0	ExFlr	0		Preheat	-74.8	16,773	46.8	50.8
oprivent	0.0	0.0	0.0	0	0.0	0.0 0.0	0.0	0.0 0.0	Roof	8.115	0 0	reneal	-14.0	10,775	40.0	50.0
Total	63.0	755.9							Wall	290	0 0	Humidif	-187.6	5,870	1.1	46.7
i Ulai	05.0	155.9							vvall	290	• •	Opt Vent	-187.6	5,870 0	0.0	40.7
												-		0	0.0	0.0
												Total	-660.3			

Appendix IV-1

#### AHU 13

	COOLING COIL PEAK				CLG SPAC	ACE PEAK HEATING COIL PEAK					ТЕМ	PERATUR	PERATURES			
Pea	aked at Outsi	Time: de Air:		o/Hr: 7 / 15 /HR: 93 / 75 /	102	Mo/Hr: OADB:				Mo/Hr: 1 OADB:			SADB Plenum	<b>Cooling</b> 54.3 87.5	-	<b>ting</b> 72.1 62.4
	Se	Space ens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h		Percent Of Total (%)	Sensible				Space Peak Space Sens Btu/h		C Percent Of Total	Return Ret/OA Fn MtrTD	72.0 79.4 0.3	-	72.0 46.8 0.0
Envelope Loa	ads	Dta/II	Dtain	Dta/H	(/0)	Bia	(/0)	Envelope	Loads	Btd/ff	2(0)1	(/0)	Fn BldTD	0.7		0.0
Skylite Solar		0	0	0	0.00			Skylite		0	C		Fn Frict	2.2		0.0
Skylite Cond		0	0	0	0.00			Skylite		0	(					
Roof Cond		0	26,375	26,375	4.36		0.00	Roof Co		0	-22,846					
Glass Solar		0	0	0	0.00			Glass S		0	(					
Glass Cond		0	0	0	0.00		0.00	Glass C		0	0		•	IRFLOWS		
Wall Cond		0	0	0	0.00			Wall Co		0	C		A			
Partition		0		0	0.00	0	0.00	Partitior		0	(	0.00		Cooling	Hea	ting
Exposed Flo	or	0		0	0.00	0	0.00	Expose	d Floor	0	0	0.00	Vent	4,702	4,	702
Infiltration		0		0	0.00	0		Infiltratio	on	-2	-2		Infil	0		0
Sub Total ==	=>	0	26,375	26,375	4.36	0	0.00	Sub To	tal ==>	-2	-22,848	6.03	Supply	13,435	13,	435
													MinStop/Rh	13,435	13.	435
Internal Load	s							Internal L	oads				Return	11,746	11.	746
Liahts		40.871	10.218	51.089	8.44	40.871	15.44	Lights		0	0	0.00	Exhaust	3.013		013
People		37,385	-, -	37,385	6.18	18.693	7.06	People		0	0	0.00	Rm Exh	1.689	1.	689
Misc		167,715	0	167,715	27.72			Misc		83,857	83,857	<b>-22.12</b>	Auxiliary	0	- ,	0
Sub Total ==	=>	245,970	10,218	256,188	42.34			Sub To	tal ==>	83,857	83,857		, tuxina y	Ũ		Ũ
			,							,						
Ceiling Load		36,592	-36,592	0	0.00	37,503	14.16	Ceiling Lo		-22,846	C	0.00	ENCIN	IEERING	cve	
Ventilation Lo	bad	0	0	273,251	45.16	0	0.00	Ventilatio	n Load	0	-377,526	6 99.61	ENGIN	EERING	una	
Ov/Undr Sizir	ng	910		910	0.15	0	0.00	Ov/Undr S	Sizing	-62,504	-62,504	16.49		Cooling	Hea	ting
Exhaust Heat	-		0	0	0.00			Exhaust H	leat		0	0.00	% OA	35.0		35.Õ
Sup. Fan Hea	t			48,325	7.99			OA Prehe	at Diff.		C	0.00	cfm/ft <sup>2</sup>	1.80		1.80
Ret. Fan Heat	t		0	0	0.00			RA Prehe	at Diff.		C	0.00	cfm/ton	266.45		
Duct Heat Pk	an		0	0	0.00			Additiona	Reheat		Ċ	0.00	ft²/ton	148.29		
Reheat at Des			-	0	0.00								Btu/hr-ft <sup>2</sup>	80.92	-70	0.80
	5			-									No. People	75		
Grand Total =	=>	283,474	0	605,049	100.00	264,781	100.00	Grand To	tal ==>	-1,494	-379,020	0 100.00	· ·			
				GOIL SEL						AREAS		HEA	TING COIL			
	Total ton	I Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter °F	°F gr/lb	Leave DI °F	<b>3/WB/HR</b> °F gr/lb		Gross Total	Glass ft <sup>2</sup> (%)		Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Clg	50.4	605.1	423.2	13,435	79.4	65.0 69.8	-	9.7 50.6	Floor	7.477		Main Htg	-314.7	13,435	51.1	72.1
0	50.4 0.0		423.2	13,435	79.4 0.0	0.0 0.0		9.7 50.6 0.0 0.0		7,477			-	13,435	0.0	0.0
Aux Clg		0.0		-					Part	-		Aux Htg	0.0	-		
Opt Vent	0.0	0.0	0.0	0	0.0	0.0 0.0	0.0	0.0 0.0	ExFlr	0 7.477	0 0	Preheat	-64.4	13,435	46.8	51.1
Total	50.4	605.1							Roof	7,477	0 0	ئالە: مەر بال	-150.3	4,702	1 1	16 7
Total	50.4	005.1							Wall	U	0 0	Humidif		,	1.1	46.7
												Opt Vent	0.0	0	0.0	0.0
									1			Total	-529.4			

Appendix IV-1

#### AHU 14

	COOLING COIL PEAK				CLG SPAC	E PEAK	<u> </u>		HEATING C	OIL PEAK		TEMF	PERATUR	ES	
	ed at Time: Outside Air:		o/Hr: 7 / 15 /HR: 93 / 75 /	102	Mo/Hr: OADB:				Mo/Hr: 1 OADB:	• · ·		SADB Plenum	<b>Cooling</b> 54.5 69.9		<b>ng</b> 8.0 7.0
	<b>Space</b> Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h		Percent Of Total (%)	Sensible				Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Of Total	Return Ret/OA Fn MtrTD	69.9 93.0 0.1	67 (	7.0 0.0 0.0
Envelope Loads	; 0	0	0	0.00			Envelope Skylite		0	0	• • •	Fn BldTD Fn Frict	0.3 1.0		0.0 0.0
Skylite Solar Skylite Cond	0	0	0	0.00	-		Skylite		0	0		FILFIC	1.0	,	0.0
Roof Cond	0	4.544	4.544	2.06	-		Roof Co		0	-3,398					
Glass Solar	0	0	0	0.00			Glass S		Ō	0					
Glass Cond	0	0	0	0.00	0	0.00	Glass C	Cond	0	0	0.00		RFLOWS		
Wall Cond	124	294	419	0.19	147	0.33	Wall Co	nd	-135	-461	0.20	AI	RFLOW5		
Partition	0		0	0.00	0	0.00	Partitior		0	0			Cooling	Heati	
Exposed Floor	0		0	0.00			Expose		0	0		Vent	2,978	2,9	
Infiltration	0		0	0.00			Infiltratio		0	0		Infil	0		0
Sub Total ==>	124	4,839	4,963	2.25	147	0.33	Sub To	tal ==>	-136	-3,859	1.71	Supply	2,978	2,9	-
							Internal L	oode				MinStop/Rh	,	2,9	
Internal Loads	7.044	4.004	0.005		7.044	47 54	Lights	uaus	0	0	0.00	Return	2,978	2,9	
Lights	7,844 5.177	1,961	9,805 5,177	4.44 2.34	7,844 2.589	-	People		0	0		Exhaust Rm Exh	2,978	2,9	
People Misc	33,609	0	33,609	2.34	33.609		Misc		16,805	16,805	0.00		0		0 0
Sub Total ==>	46.630	1.961	33,609 48,591	22.01	44,042		Sub To	tal>	16,805	16,805		Auxiliary	0		0
Sub 10tal ==>	40,030	1,901	40,591	22.01	44,042	90.51	Sub 10	lai ==>	10,005	10,005	-7.44				
Ceiling Load	611	-611	0	0.00		1.37	Ceiling Lo		-335	0		ENGIN		cke	
Ventilation Load		0	168,749	76.42			Ventilatio		0	-225,800		ENGIN		una	
Ov/Undr Sizing	23		23	0.01	0	0.00	Ov/Undr S		-16,334	-16,334	7.23		Cooling	Heati	
Exhaust Heat		-6,188	-6,188	-2.80			Exhaust H			3,389		% OA	100.0	100	
Sup. Fan Heat		_	4,676	2.12			OA Prehe			0		cfm/ft <sup>2</sup>	2.88	2.	.88
Ret. Fan Heat		0	0	0.00			RA Prehe			0		cfm/ton	161.83		
Duct Heat Pkup		0	0	0.00			Additiona	I Reheat		0	0.00	ft²/ton	56.27	000	
Reheat at Desig	n		0	0.00								Btu/hr-ft <sup>2</sup>	213.26	-308.	.44
Grand Total ==>	47,389	0	220,814	100.00	44,800	100.00	Grand To	tal ==>	0	-225,799	100.00	No. People	10		
			COIL SEL	FCTIO	N				AREAS		HEA		SELECT	ON	
Т	ton MBh		Coil Airflow cfm			Leave DI °F	<b>B/WB/HR</b> °F gr/lb		Gross Total	Glass ft <sup>2</sup> (%)			Coil Airflow cfm		<b>Lvg</b> °F
Main Clg 1	8.4 220.8	132.5	2,978	93.0	75.0 101.9	53.1 5	3.1 60.1	Floor	1.035		Main Htg	-49.5	2.978	53.1	68.0
	0.0 0.0	0.0	2,370	0.0	0.0 0.0		0.0 0.0	Part	0		Aux Hta	0.0	2,370	0.0	0.0
	0.0 0.0	0.0	0	0.0	0.0 0.0		0.0 0.0	ExFir	0		Preheat	-176.3	2,978		53.1
••••			-					Roof	1,035	0 0			,		
Total 1	8.4 220.8							Wall	171	0 0	Humidif	-93.5	2,978	1.1	45.9
											Opt Vent	0.0	0	0.0	0.0
											Total	-319.4			
								L							

# MONTHLY ENERGY CONSUMPTION

By psuae

Alternative: 1 PA Lab Facility

Floor Area =

	Monthly Energy Consumption												
Utility	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
Electric													
On-Pk Cons. (kWh)	598,696	536,139	599,426	589,246	686,188	733,552	817,214	761,597	680,118	622,950	592,722	598,482	7,816,331
On-Pk Demand (kW) Off-Pk Demand (kW)	959 999	937 997	970 1,041	994 1,072	1,184 1,075	1,318 1,137	1,387 1,250	1,295 1,151	1,190 1,091	1,021 1,093	1,019 1,041	988 1,039	1,387 1,250
Gas													
On-Pk Cons. (therms)	11,943	11,548	7,555	3,991	2,046	1,231	703	947	1,597	3,860	5,389	8,875	59,684
On-Pk Demand (therms/hr)	24	24	16	9	4	3	3	3	3	8	13	18	24
Water													
Cons. (1000gal)	0	0	0	0	0	6	12	12	3	0	0	0	33
Building Energy Consump Source Energy Consumpt			731,077 1,933,129										

44,654 ft2

# MONTHLY UTILITY COSTS

By psuae

Alternative: 1

						/Ionthly U	tility Cost	6					
Utility	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
Electric													
On-Pk Cons. (\$) On-Pk Demand (\$)	47,262 5,632	44,182 5,505	47,570 5,700	47,706 5,837	56,189 6,950	64,845 7,733	70,088 8,135	65,399 7,601	59,272 6,983	49,723 5,994	48,449 5,985	47,956 5,805	648,641 77,860
Total (\$):	52,894	49,687	53,271	53,543	63,139	72,579	78,224	72,999	66,255	55,717	54,434	53,762	726,501
Gas													
On-Pk Cons. (\$)	2,132	2,067	1,404	812	490	354	267	307	415	791	1,045	1,623	11,708
Monthly Total (\$):	55,026	51,753	54,675	54,355	63,629	72,933	78,490	73,307	66,670	56,508	55,478	55,385	738,209

PECO Energy Company	Superseding Ninth Revised Page No. 45
RATE-GS GENERAL SERVICE	
AVAILABILITY.	
Service through a single metering installation for offices, professional, commercia	al or industrial establishments, governmental
agencies, and other applications outside the scope of the Residence Service rate sc	nedules.
CURRENT CHARACTERISTICS.	
Standard single-phase or polyphase secondary service.	
MONTHLY RATE TABLE.	
FIXED DISTRIBUTION SERVICE CHARGE:	
\$ 6.74 for single-phase service without demand measurement, or	(I)
\$ 8.81 for single-phase service with demand measurement, or	(I)
\$23.82 for polyphase service.	(I)
METERING AND BILLING CREDITS A customer receiving Advanced Meter Servi	
will receive a credit on the Fixed Distribution Service Charge equal to the Total M	-
Appendix B to the Joint Petition for Full Settlement. A customer receiving Consol	-
Fixed Distribution Service Charge equal to the Billing and Collection Credit set for	th for this Base Rate in Appendix B to the
Joint Petition for Full Settlement.	
VARIABLE DISTRIBUTION SERVICE CHARGE:	
3.32¢ per kWh for the first 80 hours' use of billing demand	(1)
<ul> <li>* 1.56¢ per kWh for the next 80 hours' use of the billing demand</li> </ul>	(1)
0.98¢ per kWh for additional use; except	(1)
0.43¢ per kWh over both 400 hours' use of billing demand and 2,000 kWh	(1)
······································	()
COMPETITIVE TRANSITION CHARGE:	
6.92¢ per kWh for the first 80 hours' use of billing demand	(I)
<ul> <li>3.32¢ per kWh for the next 80 hours' use of billing demand</li> </ul>	(I)
2.13¢ per kWh for additional use; except	
1.00¢ per kWh over both 400 hours' use of billing demand and 2,000 kWh.	(D)
ENERGY AND CAPACITY CHARGE: The following Energy and Capacity Charges will	

receives Default PLR Service. These charges are not applicable to the customer if it obtains Competitive Energy Supply. 10.64¢ per kWh for the first 80 hours' use of billing demand

	10.64¢ per kWh for the first 80 hours' use of billing demand	(I)
*	5.79¢ per kWh for the next 80 hours' use of billing demand	(I)
	4.20¢ per kWh for additional use; except	(I)
	2.67¢ per kWh over both 400 hours' use of billing demand and 2,000 kWh.	(I)

\* During October through May this block is eliminated.

TRANSMISSION SERVICE FOR CUSTOMERS RECEIVING DEFAULT PLR SERVICE: Unless such a customer is able to obtain transmission service on its own, PECO Energy will provide transmission service, and will impose charges on such a customer for such transmission service.

STATE TAX ADJUSTMENT CLAUSE, NUCLEAR DECOMMISSIONING COST ADJUSTMENT APPLY TO THIS RATE.

#### DETERMINATION OF DEMAND.

The billing demand will be measured where consumption exceeds 1,100 kilowatt-hours per month for three consecutive months; or where load tests indicate a demand of five or more kilowatts; or where the heating modification is applied; or where the customer requests demand measurement. Measured demands will be determined to the nearest 0.1 of a kilowatt but will not be less than 1.2 kilowatts, and will be adjusted for power factor in accordance with the Rules and Regulations.

For those customers with demand measurement, during October through May the billing demand will not be less than 40% of the highest billing demand in the preceding months of June through September (applied on an unbundled basis)., nor less than the minimum value stated in the contract for service. If a measured demand customer has less than 1,100 monthly kilowatt-hours of use, the monthly billing demand will be the measured demand or the metered monthly kilowatt-hours divided by 175 hours, whichever is less, but not less than 40% of the highest billing demand in the preceding months of June through September, nor less than 1.2 kilowatts. There will be a one-time waiver of the application of the previous sentences as they relate to minimums associated with PLR Energy and Capacity charges the first time a customer at a service location elects to receive Competitive Energy Supply. This one-time waiver is specific to a particular service location as a result of dissolution provided the new entity was not created through merger, partnership, joint venture, acquisition and/or any other type of combined business structure with the former customer.

For those customers without demand measurement, the monthly billing demand will be computed by dividing the metered monthly kilowatt-hours by 175 hours. The computed demand will be determined to the nearest 0.1 of a kilowatt, but will not be less than 1.2 kilowatts.

(D) Denotes Decrease

(I) Denotes Increase

Supplement No. 43 To Tariff Electric Pa. P.U.C. No. 3

Tenth Revised Page No. 45

#### PECO Energy Company MINIMUM CHARGE

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The monthly minimum charge for customers without demand measurement will be the Fixed Distribution Service Charge. The monthly minimum charge for customers with demand measurement will be the Fixed Distribution Service Charge, plus a charge of \$5.85 per KW of billing demand, as follows: Variable Distribution-\$0.85 per kW; Competitive Transition Charge-\$1.85 per kW; Energy and Capacity-\$3.15 per kW (Energy and Capacity Charge applicable only if Customer receives Default PLR Service).

#### **HEATING MODIFICATION.**

Wood, solar, wind, water, and biomass systems may be used to supply a portion of the heating requirements in conjunction with service provided hereunder. Any customer system of this type that produces electric energy may not be operated concurrently with service provided by the Company except under written agreement setting forth the conditions of such operation as provided by and in accordance with the provisions of the Auxiliary Service Rider.

#### METERING.

#### A. Single Meter.

Applicable where an area is heated solely by permanently connected electric space heating installations (1) acceptable to the Company, (2) sensitive to outdoor temperature and (3) not less than 5 kilowatts. Qualifying electric heating systems are (1) electric resistance coils, (2) electric resistance baseboards, (3) electric boilers and (4) heat pumps with electric back-up.

During October through May the monthly maximum measured demand shall be reduced by one-half of the difference between the peak winter measured demand and the base load demand over the two most recent winter seasons preceding the start of the current winter season (October 1st). The demand reduction will be subject to annual review and any revisions will be based on the two most recent winter seasons. The base load demand will be defined as the lowest measured demand during the period from October to May. For time-of-use metered customers, the demand reduction will be based upon the difference between the peak winter and base load demands regardless of whether they occur on or off peak. During this period, the billing demand shall never be less than 15 kilowatts; except for those customers in service as of February 18, 1971, the billing demand during October through May shall not be less than one-half of the monthly measured demand.

A customer whose demand reduction was calculated under the methods in effect on October 17, 1996, will continue to receive the same reduction until January 2, 2000 unless the current method (described in the preceding paragraph) yields a smaller billed demand for the customer.

A customer who adds new electrical connected heating load will receive the same proportion of forgiven demand to total demand that they currently receive.

This demand modification will only be applicable within 30 days of the date that the customer requests billing under this provision. It shall be the responsibility of the customer to notify the Company of any subsequent changes to its heating equipment or requirements.

B. Separate Meters.

At the option of the customer, electricity supplying permanently connected space heating installations or heating equipment sensitive to outdoor temperature with a total capacity of not less than 5 kilowatts, which are acceptable to the Company, will be measured apart from the customer's other requirements for electric service at the premises. Air conditioning equipment of rated electrical capacity up to twice that of the heating equipment also may be supplied through this separate heating circuit.

 During October through May the usage of this separate circuit shall be billed at the charges listed below in lieu of the pricing of the basic Monthly Rate Table.

 VARIABLE DISTRIBUTION SERVICE CHARGE:
 0.77¢ per kWh
 COMPETITIVE TRANSITION CHARGE:
 1.70¢ per kWh
 ENERGY AND CAPACITY CHARGE: The following Energy and Capacity Charges will apply to the customer if the customer receives Default PLR Service. These charges are not applicable to the customer if it obtains Competitive Energy Supply:

3.62¢ per kWh

During June through September the combined usage shall be billed under the price provisions of the basic Monthly Rate Table.

TRANSMISSION SERVICE FOR CUSTOMERS RECEIVING DEFAULT PLR SERVICE: Unless such a customer is able to obtain transmission service on its own, PECO Energy will provide transmission service, and will impose charges on such a customer for such transmission service.

#### OFF-PEAK THERMAL STORAGE PROVISION.

Off-peak energy may be provided exclusively for qualifying Thermal Storage applications only in conjunction with this rate schedule when the load supplied is separately metered. This service will be billed separately at the rate of \$11.39 per month, plus the charges listed below.

3:	OFF-PEAK USAGE DURING THE WINTER AND SUI
n (l)	VARIABLE DISTRIBUTION SERVICE CHARGE:
n <b>(I)</b>	COMPETITIVE TRANSITION CHARGE:
Capacity Charges will apply to the customer if the customer	ENERGY AND CAPACITY CHARGE: The followir
he customer if it obtains Competitive Energy Supply:	receives Default PLR Service. These charges are not
ו <b>(ו)</b>	

(D) Denotes Decrease

(I) Denotes Increase

Supplement No. 46 To Tariff Electric Pa. P.U.C. No. 3 Seventh Revised Page No. 47 Superseding Sixth Revised Page No. 47

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 ON-PEAK USAGE DURING THE WINTER MONTHS:

 VARIABLE DISTRIBUTION SERVICE CHARGE:
 2.01¢ per kWh

 COMPETITIVE TRANSITION CHARGE:
 1.32¢ per kWh

 ENERGY AND CAPACITY CHARGE: The following Energy and Capacity Charges will apply to the customer if the customer receives Default PLR Service. These charges are not applicable to the customer if it obtains

 Competitive Energy Supply.
 2.69¢ per kWh

TRANSMISSION SERVICE FOR CUSTOMERS RECEIVING DEFAULT PLR SERVICE: Unless such a customer is able to obtain transmission service on its own, PECO Energy will provide transmission service, and will impose charges on such a customer for such transmission service.

During the summer months, any on-peak demand and energy will contribute to the pricing of the basic Monthly Rate Table. To qualify for this provision, the customer must submit an engineering study performed by a professional engineer registered in the Commonwealth of Pennsylvania to the Company for technical review and approval. On-peak hours are defined as the hours between 8:00 a.m. and 8:00 p.m., Eastern Standard Time or Daylight Saving Time, whichever is in common use, daily except Saturdays, Sundays and holidays; except that the on-peak hours will end at 4:00 p.m. on Fridays. Off-peak hours are defined as the hours other than those specified as on-peak hours. For Cooling Thermal Storage applications, during the months of June through September, on-peak hours will commence at 10:00 a.m. instead of 8:00 a.m.

#### SPECIAL PROVISION.

In accordance with Section 1511, Title 66 Public Utilities, a volunteer fire company, non-profit rescue squad, non-profit ambulance service or a non-profit senior citizen center meeting the requirements set forth below, may, upon application, elect to have its electric service billed at any of the following rate schedules: Rate R Residential Service, Rate RT Residential Time of Use, Rate R-H Residential Heating Service, or Rate OP Off-Peak Service as appropriate for the application. The execution of an electric service contract for a minimum term of one year at the chosen rate will be required of any entity electing service pursuant to the options provided by this provision.

For the purposes of this provision, the following words and terms shall have the following meanings, unless the context clearly indicates otherwise:

**VOLUNTEER FIRE COMPANY** - a separately metered service location consisting of a building, sirens, a garage for housing vehicular fire fighting equipment, or a facility certified by the Pennsylvania Emergency Management Agency (PEMA) for fire fighter training. The use of electric service at this location shall be to support the activities of the volunteer fire company. Any fund raising activities at this service location must be used solely to support volunteer fire fighting operations.

The customer of record at this service location must be a predominantly volunteer fire company recognized by the local municipality or PEMA as a provider of fire fighting services.

NON-PROFIT SENIOR CITIZEN CENTER - a separately metered service location consisting of a facility for the use of senior citizens coming together as individuals or groups and where access to a wide range of services to senior citizens is provided. The customer of record at this service location must be an organization recognized by the Internal Revenue Service (IRS) or the Commonwealth as a non-profit entity and recognized by the Pennsylvania Department of Aging as an operator of a senior citizen center.

NON-PROFIT RESCUE SQUAD – a separately metered service location consisting of a building, sirens, a garage for housing (C) vehicular rescue equipment; and qualified by the Commonwealth as a non-profit entity; and a facility recognized by the Pennsylvania Emergency Management Agency (PEMA) or the Pennsylvania Department of Health as a provider of rescue services. The use of electric service at this location shall be to support the activities of the non-profit rescue squad. Any fund raising activities at this service location must be used solely to support the non-profit rescue squad operations.

**NON-PROFIT AMBULANCE SERVICE** – a separately metered service location consisting of a building, sirens, a garage for housing vehicular rescue equipment; and qualified by the Commonwealth as a non-profit entity; and a facility licensed by the Pennsylvania Department of Health as a provider of ambulance services. The use of electric service at this location shall be to support the activities of the non-profit ambulance service. Any fund raising activities at this service location must be used solely to support the non-profit ambulance service operations.

#### TERM OF CONTRACT.

The initial contract term shall be for at least one year.

#### PAYMENT TERMS.

Standard. (C) Denotes Change

Issued February 7, 2003

#### SERVICE AGREEMENT

Customer must execute a service agreement in the form prepared by the Company. Such agreement shall specify, among other things, the maximum daily interruptible transportation quantity or the total daily capacity of the customer's equipment. The standard agreement shall have a term of not less than one year, and shall continue from month to month thereafter unless terminated by the customer or the Company upon written notice to the other not less than sixty (60) days prior to the end of a term. Notwithstanding the above, the service agreement executed under this pilot Rate Schedule shall terminate at the conclusion of this Pilot Program. The Company may also terminate a service agreement at any time as provided by law or by provisions of this Tariff. A service agreement for a period of more or less than one year may be executed only upon the mutual agreement of the Company and the customer. Service initiation cannot take place until the special metering equipment is installed and operating to the Company's satisfaction. Service will be initiated only on the first day of a calendar month.

#### INTERRUPTIBLE SERVICE

#### 1. QUALITY OF SERVICE

The Company may curtail (reduce) or interrupt deliveries to the customer whenever, at the Company's sole discretion, it determines that the available capacity in all or a portion of its system is projected to be insufficient to meet the requirements of all customers. Although the Company will endeavor to provide as much notice as is reasonable and practical, the customer shall maintain the ability to curtail or interrupt usage upon eight (8) hours notice. In the event of a system emergency, upon notice by the Company, the customer shall use its best efforts to curtail or interrupt usage upon less than eight (8) hours notice.

#### 2. ALTERNATE FUEL CAPABILITY

In order to qualify for interruptible daily transportation service under this Rate Schedule, a customer must: (1) have installed and operable alternate fuel equipment, including appropriate fuel storage capacity, capable of displacing the daily quantity of gas subject to curtailment or interruption as specified in the appropriate subpart of section 5 below; or (2) or in the alternative demonstrate to the Company's sole satisfaction the ability to manage its business without the use of gas during periods of curtailment or interruption.

#### **3. REQUIREMENTS**

Customer is responsible for providing to the Company continuously-updated mailing and electronic addresses, as well as fax and voice telephone numbers, for communication of interruption notices on a 24-hour per day, 7-day per week basis. Interruption notices shall be considered received by the customer upon transmission by the Company to the electronic address and/or telephone number provided by the customer.

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#### 4. PENALITIES FOR UNAUTHORIZED USAGE

During any period of curtailment or interruption, the Company shall have the right to immediate access, without prior notice to the customer, to inspect the Company's gas measurement equipment and all gas-using facilities at the customer's premises. If the Company determines that the customer is using or has used a quantity of gas in excess of the quantity authorized by the notice of curtailment or interruption, the Company shall have the right to impose the following penalties: (a) to take measures to physically restrict the flow of gas into the customer's premises, or, if flow restriction is not practical, to terminate service; and, (b) to impose a penalty equal to the greater of any actual cost incurred or penalty imposed upon the Company as a result of the violation by the customer, or \$25.00/Dth, in addition to the Company's cost of the gas used, for each Dth taken in excess of the quantity authorized in the notice. In addition to the foregoing, the customer shall hold the Company harmless and defend the Company against any and all claims against the Company arising from service problems caused or materially contributed to by the customer's violation of the notice of curtailment or interruption.

#### LEVELS OF SERVICE

For the purposes of the pilot program, existing customers will be placed into their corresponding rate class. The Company at its sole discretion will determine Level of Service.

#### 1. IT-1

This interruptible rate will be available to customers who otherwise do not qualify for rates IT-2 through IT-8

#### 2. IT-2

An applicant for service under this rate shall be required to execute a Service Agreement, contracting for not less than 2,500 Dth of gas transportation service per year under the terms of this Tariff, in which shall be defined maximum and minimum quantities of gas to be delivered. Customers electing service under this rate shall have and maintain complete and adequate standby non-natural gas energy (e.g., oil, propane, electric, steam) and equipment for alternate operation in the event of interruption of gas service.

#### 3. IT-3

An applicant for service under this rate shall be required to execute a Service Agreement, contracting for not less than 5,000 Dth of gas transportation service per year under the terms of this Tariff, in which shall be defined maximum and minimum quantities of gas to be delivered. Customers electing service under this rate shall have and maintain complete and adequate standby non-natural gas energy (e.g., oil, propane, electric, steam) and equipment for alternate operation in the event of interruption of gas service.

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#### 4. IT-4

An applicant for service under this rate shall be required to execute a Service Agreement, contracting for not less than 5,000 Dth of gas transportation service per year under the terms of this Tariff, in which shall be defined maximum and minimum quantities of gas to be delivered. Customers electing service under this rate shall have and maintain complete and adequate standby No. 4 oil and equipment for alternate operation in the event of interruption of gas service.

#### 5. IT-5

An applicant for service under this rate shall be required to execute a Service Agreement, contracting for not less than 5,000 Dth of gas transportation service per year under the terms of this Tariff, in which shall be defined maximum and minimum quantities of gas to be delivered. Customers electing service under this rate shall have and maintain complete and adequate standby No. 5 or No. 6 oil and equipment for alternate operation in the event of interruption of gas service.

#### 6. IT-6

An applicant for service under this rate shall be required to execute a Service Agreement, contracting for not less than 80,000 Dth of gas transportation service per year under the terms of this Tariff, in which shall be defined maximum and minimum quantities of gas to be delivered. Customers electing service under this rate shall have and maintain complete and adequate standby non-natural gas energy (e.g., oil, propane, electric, steam) and equipment for alternate operation in the event of interruption of gas service.

#### 7. IT-7

An applicant for service under this rate shall be required to execute a Service Agreement, contracting for not less than 350,000 Dth of gas transportation service per year under the terms of this Tariff, in which shall be defined maximum and minimum quantities of gas to be delivered. Customers electing service under this rate shall have and maintain complete and adequate standby non-natural gas energy (e.g., oil, propane, electric, steam) and equipment for alternate operation in the event of interruption of gas service.

(C) - Change

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#### 8. IT-8

An applicant for service under this rate shall be required to execute a Service Agreement, in which shall be defined maximum and minimum quantities of gas to be delivered. Service shall be for gas transportation service for use in any form of combined cooling, heating and power production where there is sequential usage of energy in at least two distinct applications from the same fuel source or in sequential production of electrical energy and useful thermal energy from the same fuel source by a qualifying facility as defined in Section 201 of the Public Utilities Regulatory Policies Act of 1978. The determination by the Company as to the Customer's ability to co-generate will be final. Customers electing service under this rate shall have and maintain complete and adequate standby non-natural gas energy (e.g., oil, propane, electric, steam) and equipment for alternate operation in the event of interruption of gas service.

#### CHARGES

#### **1. MONTHLY BILL**

The monthly bill shall consist of the sum of the monthly customer charge and the transportation charge as detailed below:

Per Dth Delivered

#### CUSTOMER CHARGE

Per Meter Location Per Month

IT-1:	\$ 75
<b>IT-2</b> :	\$ 75
IT-3:	\$ 150
IT-4:	\$ 150
IT-5:	\$ 150
IT-6:	\$ 250
<b>IT-7</b> :	\$ 250
IT-8:	\$ 250

#### TRANSPORTATION CHARGE

IT-1:	\$ 3.94 maximum
IT-2:	\$ 3.70 maximum
IT-3:	\$1.72 maximum
<b>IT-4</b> :	\$1.28 maximum
IT-5:	\$ 0.84 maximum
<b>IT-6</b> :	\$ 0.83 maximum
<b>IT-7</b> :	\$ 0.74 maximum
IT-8:	\$ 0.75 maximum

(C) - Change

**Multi-Performance** 

# USA Coil & Air



Customer: Project: Date:

03/30/2004

P.O.BOX 578 DEVAULT, PA 19432 (800) 872-2645 (USA & CANADA) (610) 296-9668 (610) 296-9763 (FAX)

No.	Fin HGT	Fin LTH	ROWS	FPI	CIRCT	FACE (SQ FT)	SCFM	EAT DB	EAT WB
1	42.00	69.00	10	10	×	20.13	6672	71.80	58.40
LVG DB	LVG WB	FACE VEL	AIR PD IN	ENT GLY	LVG GLY	GLY PD (FT)	GPM	TOTAL BTUH	SENSIBLE BTUH
44.72	44.72	332	0.48	40.00	52.54	4.84	40.00	236191	199570
Qty: 1	Item:	AHU-1		Model: GW	₩58-KK-06	942-F	T	ype: Glyco	ol - %
Tube OD:	5/8"	Wall Thk	: 0.02	Fin Th	k: 0.006	Alu	minum	Cori	rugated

No.	Fin HGT	Fin LTH	ROWS	FPI	CIRCT	FACE (SQ FT)	SCFM	EAT DB	EAT WB
2	48.00	85.00	9	10		28.33	11123	93.00	75.00
LVG DB	LVG WB	FACE VEL	AIR PD IN	ENT GLY	LVG GLY	GLY PD (FT)	GPM	TOTAL BTUH	SENSIBLE BTUH
46.33	46.32	393	0.74	40.00	53.00	31.25	161.0 0	985034	562478
Qty: 1	Item:	AHU-2	I	Model: GV	√58-JK-08	548-F		ype: Glyc	ol - %
Tube OD:	5/8"	Wall Thk	: 0.02	Fin Th	<b>c:</b> 0.006	Alu	minum	Cor	rugated

						FACE			
No.	Fin HGT	Fin LTH	ROWS	FPI	CIRCT	(SQ FT)	SCFM	EAT DB	EAT WB
3	42.00	69.00	- 9	10	ν.	20.13	6447	86.30	70.60
		FACE	AIR	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		GLY PD		TOTAL	SENSIBLE
LVG DB	LVG WB	VEL	PD IN	ENT GLY	LVG GLY	(FT)	GPM	BTUH	BTUH
45.92	45.91	320	0.49	40.00	52.75	10.69	78.00	468305	283767
Qty: 1	Item:	AHU-3		Model: GV	<b>∛58-JK-06</b>	942-F	Ту	pe: Glyc	ol - %
Tube OD:	: 5/8"	Wall Thk	: 0.02	Fin Th	<b>c:</b> 0.006	Alu	minum	Corr	rugated

No.	Fin HGT	Fin LTH	ROWS	FPI	CIRCT	FACE (SQ FT)	SCFM	EAT DB	EAT WB
4	42.00	69.00	9	10		20.13	6268	84.80	69.50
LVG DB	LVG WB	FACE VEL	AIR PD IN	ENT GLY	LVG GLY	GLY PD (FT)	GPM	TOTAL BTUH	SENSIBLE BTUH
45.81	45.80	311	0.46	40.00	52.74	9.39	72.00	431788	266734
Qty: 1	Item:	AHU-4		Model: GV	<b>∛58-JK-06</b>	942-F	T	ype: Glyc	ol - %
Tube OD:	5/8"	Wall Thk	:: 0.02	Fin Th	<b>c:</b> 0.006	Alu	minum	Cor	rugated

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**Multi-Performance** 



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Customer:	
Project:	
Date:	03

03/30/2004

No.	Fin HGT	Fin LTH	ROWS	FPI	CIRCT	FACE (SO FT)	SCFM	EAT DB	EAT WB
5	33.00	53.00	10	10		12.15	3394	79.80	65.70
LVG DB	LVG WB	FACE VEL	AIR PD IN	ENT GLY	LVG GLY	GLY PD (FT)	GPM	TOTAL BTUH	SENSIBLE BTUH
43.86	43.86	279	0.40	40.00	50.10	5.67	43.00	204468	133940
Qty: 1	Item:	AHU-5		Model: GV	<b>1</b> 58-KK-05	333-F	T	ype: Glyc	ol - %
Tube OD:	5/8"	Wall Thk	: 0.02	Fin Th	<b>k:</b> 0.006	Alu	minum	Cor	rugated
									λ.

No.	Fin HGT	Fin LTH	ROWS	FPI	CIRCT	FACE (SQ FT)	SCFM	EAT DB	EAT WB
6	33.00	53.00	10	10		12.15	3534	79.40	65.40
LVG DB	LVG WB	FACE VEL	AIR PD IN	ENT GLY	LVG GLY	GLY PD (FT)	GPM	TOTAL BTUH	SENSIBLE BTUH
45.35	45.35	291	0.43	40.00	52.31	4.52	34.00	197087	131989
Qty: 1	Item:	AHU-6		Model: GV	<b>∛58-KK-05</b>	333-F	Ty	ype: Glyc	ol - %
Tube OD:	: 5/8"	Wall Thk	: 0.02	Fin Th	<b>c:</b> 0.006	Alu	minum	Cori	rugated

						FACE			
No.	Fin HGT	Fin LTH	ROWS	FPI	CIRCT	(SQ FT)	SCEM	EAT DB	EAT WB
7	48.00	73.00	8	10		24.33	8375	93.00	75.00
		FACE	AIR			GLY PD		TOTAL	SENSIBLE
LVG DB	LVG WB	VEL	PD IN	ENT GLY	LVG GLY	(FT)	GPM	BTUH	BTUH
							120.0		
47.51	47.49	344	0.52	40.00	52.70	15.66	0	717610	412274
Qty: 1	Item:	AHU-7	]	Model: GV	<b>∛58-нк-07</b>	348-F	T	Type: Glyco	ol - %
Tube OD:	: 5/8"	Wall Thk	: 0.02	Fin Th	<b>c:</b> 0.006	Alu	uminum	Corr	rugated

No.	Fin HGT	Fin LTH	ROWS	FPI	CIRCT	FACE (SQ FT)	SCFM	EAT DB	EAT WB
8	42.00	69.00	10	10	011/01	20.13	7535	83.40	68.60
LVG DB	LVG WB	FACE VEL	AIR PD IN	ENT GLY	LVG GLY	GLY PD (FT)	GPM	TOTAL BTUH	SENSIBLE BTUH
45.37	45.36	374	0.71	40.00	52.42	13.13	86.00	502894	313304
Qty: 1	Item:	AHU-8		Model: GV	<b>∛58-KK-06</b>	942-F	Т	ype: Glyc	ol - %
Tube OD:	: 5/8"	Wall Thk	: 0.02	Fin Th	<b>c:</b> 0.006	Alu	ıminum	Cor	rugated

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Customer:	
Project:	
Date:	03/30/2004

No.	Fin HGT	Fin LTH	ROWS	FPI	CIRCT	FACE (SQ FT)	SCFM	EAT DB	EAT WB
9	42.00	69.00	10	10	28	20.13	6381	76.70	63.20
LVG DB	LVG WB	FACE VEL	AIR PD IN	ENT GLY	LVG GLY	GLY PD (FT)	GPM	TOTAL BTUH	SENSIBLE BTUH
45.08	45.07	317	0.49	40.00	52.84	6.15	52.00	314206	221891
Qty: 1	Item:	AHU-9	]	Model: GV	<b>∛58-KK-06</b>	942-F	Ту	pe: Glyco	ol - 25%
Tube OD:	: 5/8"	Wall Thk	: 0.02	Fin Th	k: 0.006	Alu	minum	Corr	rugated

No.	Fin HGT	Fin LTH	ROWS	FPI	CIRCT	FACE (SQ FT)	SCFM	EAT DB	EAT WB
10	33.00	93.00	7	10	22	21.31	14603	80.40	64.60
LVG DB	LVG WB	FACE VEL	AIR PD IN	ENT GLY	LVG GLY	GLY PD (FT)	GPM	TOTAL BTUH	SENSIBLE BTUH
51.20	50.89	685	1.36	40.00	53.28	19.07	92.00	575199	464582
Qty: 2	Item:	AHU-10	1	Model: GV	<b>V58-GK-09</b>	333-F	T	vpe: Glyco	ol - 25%
Tube OD:	5/8"	Wall Thk	: 0.02	Fin Th	<b>k:</b> 0.006	Alu	minum	Cori	rugated

						FACE			
No.	Fin HGT	Fin LTH	ROWS	FPI	CIRCT	(SQ FT)	SCFM	EAT DB	EAT WB
11	36.00	67.00	10	10	24	16.75	5930	84.30	67.80
		FACE	AIR			GLY PD		TOTAL	SENSIBLE
LVG DB	LVG WB	VEL	PD IN	ENT GLY	LVG GLY	(FT)	GPM	BTUH	BTUH
44.50	44.49	354	0.63	40.00	51.36	13.02	73.00	390320	257987
Qty: 1	Item:	AHU-11		Model: GV	<b>V58-KK-06</b>	736-F	Ty	pe: Glyc	ol - 25%
Tube OD:	: 5/8"	Wall Thk	: 0.02	Fin Th	<b>c:</b> 0.006	Alu	minum	Cor	rugated

						FACE			
No.	Fin HGT	Fin LTH	ROWS	FPI	CIRCT	(SQ FT)	SCFM	EAT DB	EAT WB
12	54.00	89.00	8	10	36	33.38	16713	79.40	65.10
		FACE	AIR			GLY PD		TOTAL	SENSIBLE
LVG DB	LVG WB	VEL	PD IN	ENT GLY	LVG GLY	(FT)	GPM	BTUH	BTUH
,							125.0		
48.63	48.55	501	0.91	40.00	53.35	15.83	0	785561	562238
Qty: 1	Item:	AHU-12		Model: GV	<b>√</b> 58-HK-08	954-F	T	ype: Glyco	ol - 25%
Tube OD:	5/8"	Wall Thk	: 0.02	Fin Thl	k: 0.006	Alu	minum	Cori	rugated

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Customer:	
Project:	
Date:	

03/30/2004

No.	Fin HGT	Fin LTH	ROWS	FPI	CIRCT	FACE (SQ FT)	SCFM	EAT DB	EAT WB
13	48.00	85.00	7	11	32	28.33	13386	79.40	65.00
LVG DB	LVG WB	FACE VEL	AIR PD IN	ENT GLY	LVG GLY	GLY PD (FT)	GPM	TOTAL BTUH	SENSIBLE BTUH
		1				(/	102.0		
49.12	49.02	472	0.80	40.00	52.69	11.66	0	609100	442946
Qty: 1	Item:	AHU-13	1	Model: GV	₩58-GL-08	548-F	T	ype: Glyc	ol - 25%
Tube OD:	5/8"	Wall Thk	: 0.02	Fin Th	k: 0.006	Alu	minum	Cor	rugated

No.	Fin HGT	Fin LTH	ROWS	FPI	CIRCT	FACE (SQ FT)	SCFM	EAT DB	EAT WB
14	33.00	53.00	6	10	22	12.15	2989	93.00	75.00
		FACE	AIR			GLY PD		TOTAL	SENSIBLE
LVG DB	LVG WB	VEL	PD IN	ENT GLY	LVG GLY	(FT)	GPM	BTUH	BTUH
51.52	51.45	246	0.22	40.00	52.64	3.89	38.00	226034	133649
Qty: 1	Item:	AHU-14	]	Model: GV	158-FK-05	5333-F	T	ype: Glyco	ol - 25%
Tube OD:	5/8"	Wall Thk	: 0.02	Fin Th	<b>c:</b> 0.006	Alu	minum	Cori	cugated

# Replacement engineering made easy.

# **Quick select table**

DESCRIPTION	UNIT SIZE										
	003	004	006	008	010	012	014				
Airflow Range, CFM	900-2500	1200-3100	1700-4600	2200-6000	2900-7700	3600-9700	4200-11200				
CFM @ 500 Feet/Minute Through Large Face Area Coil	1550	1950	2850	3750	4800	6050	7000				
Height x Width, in.	34 x 38	38 x 40	38 x 52	40 x 58	44 x 64	50 x 66	50 x 74				
COOLING COIL FACE AREA, sq.ft.											
Staggered Large	3.9	4.8	6.6	8.5	10.7	13.5	15.4				
Large	3.1	3.9	5.7	7.5	9.6	12.1	14.0				
Staggered Medium	2.6	3.4	4.7	6.4	8.3	9.8	11.2				
Medium	2.1	2.8	4.1	5.6	7.4	8.8	10.2				
Small	NA	2.3	3.3	4.7	6.4	7.7	8.9				
FAN SECTION - depth, in. / weight, lbs.											
Largest Housed Fan & Motor Avail. w/ Top Hor. Discharge	32/478	32/492	36/24	40/928	40/951	46/1175	46/1271				
Largest Inline Fan and Motor Available	N/A	N/A	N/A	N/A	N/A	44/1189	44/1222				
Largest Belt Drive Plenum Fan and Motor Available	N/A	N/A	N/A	N/A	34/947	42/1271	42/932				
Largest Direct Drive Plenum Fan and Motor Available	N/A	N/A	N/A	44/902	46/1054	56/1431	56/1514				
Largest Twin Fan and Motor Available	N/A	N/A	N/A	50/1099	54/1461	56/1537	58/1726				
MIXING BOX - depth, in. / weight, lbs.		•	•	•	•	•					
Mixing Box Only	20/232	20/252	20/299	20/344	22/421	24/454	24/493				
ECONOMIZER - depth, in. / weight, lbs.	1										
	66/602	66/675	70/760	66/804	74/950	72/959	77/1130				
BLENDER - depth, in. / weight, lbs.	00/002	00/010	10/100	00/004	14/000	12/000	7111100				
Largest Kees	18/189	20/219	24/292	26/348	28/401	34/492	36/554				
Largest Blender Products IV	18/187	22/224	26/311	30/384	34/459	38/525	40/604				
		22/224	20/311	30/364	34/409	36/325	40/004				
SIDE LOAD FILTER SECTIONS - depth, in. / weight, lbs.		40/474	40/000	40/005	40/050	40/004	40/004				
Flat 2" and 4"	12/163	12/174	12/209	12/235	12/259	12/281	12/301				
2" Angular	32/324	30/332	30/397	30/437	30/479	30/504	30/548				
Cartridge (12" deep w/2" Pre-Filter)	22/257	22/286	22/343	22/400	22/438	22/474	22/514				
Bag (36" w/2" Pre-Filter)	42/398	42/431	42/517	42/584	42/640	42/677	42/734				
FRONT LOAD FILTER SECTIONS - depth, in. / weight, lt			•	•	•	•	-				
Cartridge (12" deep w/2" Pre-Filter)	16/222	16/239	16/294	16/340	16/368	16/424	16/456				
Bag (36" w/2" Pre-Filter)	40/388	40/419	40/497	40/570	40/611	40/678	40/735				
FACE AND BYPASS - depth, in. / weight, lbs.	-		-	-	-	-					
Internal	12/188	12/206	12/248	12/284	12/321	12/352	12/386				
External	18/264	18/289	18/349	20/415	22/482	24/549	24/595				
COIL SECTIONS - depth, in. / weight, lbs.											
Heating Only (2 Row Water)	12/326	12/358	12/407	12/459	12/503	12/558	12/597				
Cooling Only (4 Row Water)	24/495	24/663	24/767	24/733	24/814	24/903	24/1004				
Cooling Only (6 Row Water)	24/527	24/703	24/822	24/805	24/905	24/1017	24/1136				
Cooling and Reheat (12 Row Cooling & 1 Row Heating)	36/797	36/1033	36/1236	36/1289	36/1475	36/1690	36/1868				
ACCESS SECTIONS - depth, in. / weight, lbs.	-			-	-						
16" Deep	16/171	16/183	16/217	16/241	16/260	16/277	16/299				
24" Deep	24/217	24/231	24/274	24/304	24/329	24/349	24/377				
30" Deep	30/252	30/270	30/320	30/355	30/384	30/407	30/440				
36" Deep	36/293	36/313	36/371	36/410	36/444	36/470	36/509				
42" Deep	42/329	42/352	42/417	42/461	42/499	42/529	42/572				
48" Deep	48/366	48/391	48/464	48/513	48/556	48/588	48/688				
54" Deep	54/386	54/411	54/489	54/581	54/631	54/663	54/722				
DIFFUSER - depth, in. / weight, lbs.	0000	0	0 11 100	0 00 .	0	0000	0				
With Housed Fan	10/122	10/132	10/159	12/195	12/211	16/265	16/285				
With Inline Fan	N/A	N/A	N/A	N/A	N/A	18/287	18/309				
	IN/A	IN/A	IN/A	IN/A	IN/A	10/207	10/309				
ATTENUATOR - depth, in. / weight, lbs.	40/269	40/440	40/524	40/672	40/740	40/024	40/004				
Short Madium	40/368	40/449	40/531	40/673	40/749	40/831	40/901				
Medium	52/485	52/595	52/742	52/858	52/958	52/1166	52/1280				
Long	64/590	64/726	64/944	64/1091	64/1216	64/1420	64/1560				
SUPPLY OR RETURN PLENUM - depth, in. / weight, lbs.			•	•	•	•	•				
Top, Bottom or End Opening	14/160	16/194	16/232	18/277	20/319	22/360	22/391				

**NOTES**: Values based on typical industry sizes. Skyline Air Handling units are available in 2 inch increments of height and width to fit exact space requirements. Approximate shipping weights include roofcap option, 6"curb-ready base and double wall construction. Coil weights based on aluminum fins and 12 fins per inch with 18" vestibule. Mixing box section includes an end damper with hood. Economizer section includes side dampers with hoods. Front load filter sections include 24" upstream plenum section with tread plate for heavy duty floor liner. Height dimension includes 6" curb-ready base. Only horizontal units are available. Upblast and downblast poises not available for either housed fans or twin fans.

# Quick select table - continued

DESCRIPTION	UNIT SIZE									
	017	021	025	030	035	045	055			
Airflow Range, CFM	5000-13500	6000-16000	7300-19400	8500-22500	10000-26500		11400-3020			
CFM @ 500 Feet/Minute Through Large Face Area Coil	8400	10050	12150	14150	16700	21300	25200			
Height x Width, in.	52 x 80	52 x 82	66 x 86	66 x 98	72 x 102	84 x 106	96 x 106			
COOLING COIL FACE AREA, sq. ft.	-									
Staggered Large	18.3	21.9	27.4	31.9	37.1	50.4	N/A			
Large	16.8	20.1	24.3	28.3	33.4	42.6	50.4			
Staggered Medium	13.7	17.2	21.3	24.8	29.7	34.9	46.5			
Medium	12.6	15.8	18.2	21.2	24.1	31.0	38.8			
Small	11.2	14.4	16.7	19.5	22.3	27.1	34.9			
FAN SECTION - depth, in. / weight, lbs.	-	-			-					
Largest Housed Fan & Motor Available	50/1584	52/1735	58/2137	58/2410	58/2485	58/2574	60/2718			
w/ Top Horizontal Dishcharge										
Largest Inline Fan & Motor Available	48/1520	54/1930	64/2810	64/2953	70/3505	82/4184	82/4524			
Largest Belt Drive Plenum Fan & Motor Available	48/1823	52/2103	56/2690	58/3063	62/3430	66/3773	66/4150			
Largest Direct Drive Plenum Fan & Motor Available	66/1608	68/1672	78/2643	78/2965	84/4082	86/4382	92/4633			
Largest Twin Fan and Motor Available	58/1821	66/2296	66/2639	74/3269	82/3839	78/4415	78/5077			
MIXING BOX - depth, in. / weight, lbs.						1				
Mixing Box Only	26/564	30/657	32/872	32/1022	36/1168	42/1248	48/1328			
ECONOMIZER - depth, in. / weight, lbs.	-	-			-					
	80/1226	84/1319	84/1409	86/1768	100/1911	106/2136	112/2318			
BLENDER - depth, in. / weight, lbs.										
Largest Kees	38/627	42/721	46/1023	48/1219	58/1496	64/1747	68/1921			
Largest Blender Products IV	46/775	48/841	52/1087	60/1434	64/1588	70/1902	70/2287			
SIDE LOAD FILTER SECTIONS - depth, in. / weight, lbs	s.									
Flat 2" and 4"	12/330	12/348	12/487	12/609	12/643	12/675	12/709			
2" Angular	30/616	30/638	32/836	32/984	32/1055	32/1129	32/1208			
Cartridge (12" deep w/2" Pre-Filter)	22/576	22/627	22/795	22/970	22/1042	22/1115	22/1193			
Bag (36" w/2" Pre-Filter)	42/796	42/844	42/1054	42/1279	42/1348	44/1428	44/1515			
FRONT LOAD FILTER SECTIONS - depth, in. / weight,	lbs.	-	•	•	•	•				
Cartridge (12" deep w/2" Pre-Filter)	16/540	16/573	16/771	16/882	16/1012	20/1495	20/1787			
Bag (36" w/2" Pre-Filter)	40/814	40/863	40/1074	40/1299	40/1403	44/1815	44/2122			
FACE AND BYPASS - depth, in. / weight, lbs.										
Internal	12/422	12/452	12/617	12/747	12/800	12/896	12/897			
External	26/684	30/778	32/1032	32/1200	34/1313	44/1458	50/1656			
COIL SECTIONS - depth, in. / weight, lbs.										
Heating Only (2 Row Water)	12/657	16/740	12/1042	12/1133	12/1144	16/1219	16/1339			
Cooling Only (4 Row Water)	24/1105	24/1208	36/2087	36/2292	36/2320	48/2390	48/2461			
Cooling Only (6 Row Water)	24/1262	24/1396	42/2506	42/2829	42/2888	48/3177	48/3494			
Cooling and Reheat (12 Row Cooling & 1 Row Heating)	36/2100	36/2358	42/2450	42/3084	42/3724	42/4170	42/4671			
ACCESS SECTIONS - depth, in. / weight, lbs.	00.2100	00.2000								
16" Deep	16/323	16/339	16/478	16/587	16/618	16/655	16/687			
24" Deep	24/407	24/426	24/577	24/697	24/731	24/775	24/814			
30" Deep	30/474	30/497	30/657	30/784	30/823	30/783	30/822			
36" Deep	36/549	36/575	36/744	36/879	36/923	36/969	36/1017			
42" Deep	42/617	42/645	42/823	42/1032	42/1084	42/1138	42/1195			
42 Deep 48" Deep	42/617	42/645	42/823	42/1032	42/1084	42/1138	42/1195			
54" Deep	54/777	54/811	54/1025	54/1121	54/1247	54/1309	54/1374			
	34/777	34/011	54/1025	54/1100	54/1247	54/1309	34/13/4			
DIFFUSER - depth, in. / weight, lbs.	16/200	16/226	24/569	24/695	24/747	20/1004	20/4005			
With Housed Fan	16/309	16/326	24/568	24/685	24/717	30/1004	30/1295			
With Inline Fan	18/334	22/406	26/603	26/723	28/789	32/1222	32/2016			
ATTENUATOR - depth, in. / weight, lbs.	10/10	40/105-	40/1777	10/1= :-	10/10- :	10/0055	1010			
Short	40/1006	40/1095	40/1529	40/1749	40/1894	40/2083	40/2294			
Medium	52/1436	52/1585	52/2051	52/2285	52/2591	52/2850	52/3135			
Long	64/1752	64/1973	64/2518	64/2799	64/3124	64/3436	64/3779			
SUPPLY OR RETURN PLENUM - depth, in. / weight, lbs	s									
Top, Bottom or End Opening	24/475	28/547	30/741	30/881	32/962	36/1077	40/1195			

NOTES: Values based on typical industry sizes. Skyline Air Handling units are available in 2 inch increments of height and width to fit exact space requirements. Approximate shipping weights include roofcap option, 6"curb-ready base and double wall construction. Coil weights based on aluminum fins and 12 fins per inch with 18" vestibule. Mixing box section includes an end damper with hood. Economizer section includes side dampers with hoods. Front load filter sections include 24" upstream plenum section with tread plate for heavy duty floor liner. Height dimension includes 6" curb-ready base. Only horizontal units are available. Upblast and downblast poises not available for either housed fans or twin fans.

# Coil data

Table 12: Unit coil dimensional data -	— English units of measure
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STANDARD CHILLED WATER, DX, or 3 & 4 ROW HEATING COILS (English Units — inches and square feet)							CLEANABLE COILS OR 1 & 2 ROW HEATING COILS (English Units — inches and square feet)						
Unit Size		Stagg./ Large	Large	Stagg./ Medium	Medium	Small		Stagg./ Large	Large	Stagg./ Medium	Medium	Small	
	FH x FL	—	18 x 25	—	12 x 25	_	FH x FL		18 x 22		12 x 22	_	
003	Face Area	—	3.1	—	2.1	_	Face Area	_	2.8	_	1.8	_	
	FH x FL	—	21 x 27	—	18 x 27	12 x 27	FH x FL	_	21 x 24	_	18 x 24	12 x 24	
004	Face Area	—	3.9	_	3.4	2.3	Face Area	_	3.5	_	3	2	
	FH x FL	_	21 x 39	_	18 x 39	12 x 39	FH x FL	_	21 x 36	_	18 x 36	12 x 36	
006	Face Area	_	5.7	_	4.9	3.3	Face Area	_	5.3	_	4.5	3	
	FH x FL	_	24 x 45	_	18 x 45	15 x 45	FH x FL	_	24 x 42	_	18 x 42	15 x 42	
008	Face Area	_	7.5	_	5.6	4.7	Face Area	_	7	_	5.3	4.4	
	FH x FL	_	27 x 51	_	21 x 51	18 x 51	FH x FL	_	27 x 48	_	21 x 48	18 x 48	
010	Face Area	_	9.6	_	7.4	6.4	Face Area	_	9	_	7	6	
	FH x FL	_	33 x 53	_	24 x 53	21 x 53	FH x FL	_	33 x 50	_	24 x 50	21 x 50	
012	Face Area	_	12.1	_	8.8	7.7	Face Area	_	11.5	_	8.3	7.3	
	FH x FL	_	33 x 61	_	27 x 61	21 x 61	FH x FL	_	33 x 58	_	27 x 58	21 x 58	
014	Face Area	_	14	_	11.4	8.9	Face Area	_	13.3	_	10.9	8.5	
	FH x FL	_	36 x 67	_	27 x 67	24 x 67	FH x FL	_	36 x 64	_	27 x 64	24 x 64	
017	Face Area	_	16.8	_	12.6	11.2	Face Area	_	16	_	12	10.7	
	FH x FL	_	42 x 69	_	33 x 69	30 x 69	FH x FL	_	42 x 66	_	33 x 66	30 x 60	
021	Face Area	_	20.1	_	15.8	14.4	Face Area	_	19.3	_	15.1	13.8	
	FH x FL	_	48 x 73	_	36 x 73	33 x 73	FH x FL	_	_	42 x 70	36 x 70	33 x 70	
	Face Area	_	24.3	_	18.2	16.7	Face Area	_	_	20.4	17.5	16	
025	FH x FL	(2) 27 x 73	(2) 24 x 73	(2) 21 x 73	_	_	FH x FL	(2) 27 x 70	(2) 24 x 70	_	_	_	
	Face Area	27.4	24.3	21.3	_	_	Face Area	26.2	23.3	_	_	_	
	FH x FL		48 x 85	_	36 x 85	33 x 85	FH x FL	_	_	42 x 82	36 x 82	33 x 82	
	Face Area		28.3	_	21.2	19.5	Face Area	_	_	23.9	20.5	18.8	
030	FH x FL	(2) 27 x 85	(2) 24 x 85	(2)21 x 85	_	_	FH x FL	(2) 27 x 82	(2) 24 x 82	_	_	_	
	Face Area	31.9	28.3	24.8	_	_	Face Area	30.8	27.3	_	_	_	
	FH x FL		54 x 89	_	42 x 89	39 x 89	FH x FL	_	_	_	42 x 86	39 x 80	
	Face Area		33.4	_	24.1	22.3	Face Area	_	_	_	23.3	21.5	
035	FH x FL	(2) 30 x 89	(2) 27 x 89	(2)24 x 89	_	_	FH x FL	(2) 30 x 86	(2) 27 x 86	(2)24 x 86	_	_	
	Face Area	37.1	33.4	29.7	_	-	Face Area	35.8	32.3	28.7	_	_	
	FH x FL	_	_	_	48 x 93	_	FH x FL	_	_	_	_	_	
• ·	Face Area	—	—	_	31	_	Face Area	_	_	_	_	_	
045	FH x FL	(2) 39 x 93	(2) 33 x 93	(2) 27 x 93	(2) 24 x 93	_	FH x FL	(2) 39 x 90	(2) 33 x 90	(2) 27 x 90	(2) 24 x 90	_	
	Face Area	50.4	42.6	34.9	31.0	_	Face Area	48.8	41.3	33.8	30.0	_	
	FH x FL	(2) 45 x 93	_	_	_	_	FH x FL	_			_	_	
	Face Area	58.1	_	_	_		Face Area	_	_	_	_	_	
055	FH x FL	_	(2) 39 x 93	(2) 36 x 93	(2) 30 x 93	_	FH x FL	_	(2) 39 x 90	(2) 36 x 90	(2) 30 x 90	_	
	Face Area	_	50.4	46.5	38.8	_	Face Area		48.8	45.0	37.5	_	

#### Coil section depth limitation by number of rows in coil for single banks of coils (excludes staggered coils)

36"

Section depth Maximum number of rows

12"	2 row water or steam
14"	4 row water (except 5WM & 5WD)

16" 4 row 5WM & 5WD water

#### Cooling only section (no moisture eliminator)

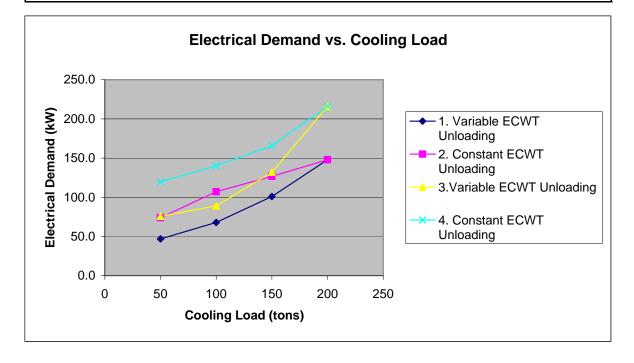
- Section depth 18" 24" 30" Maximum number of rows 4 row DX or water (except 5WM & 5WD)
- 8 row DX or water
- 10 row DX or 12 water

- Combination cooling and 1 or 2 row reheat (no moisture eliminator) Section depth Maximum number of rows
- Section depth 24" 30" 6 row water or DX 10 row water or DX

  - 12 row water

NOTES: The spacing between coil casings is a minimum of 4". If more access between coils is required, increase the section depth. Cooling coil sections are avail-able in section depths of 18", 24", 30", 36", 42", 48", 54". If a moisture eliminator is required, use the next larger section size.

	oling		NT Unloadii			1	
		_					
Capacity	% Capacity	kW	%kW	kW/ton	CWT	ambient reduct	
200			100%	0.740	85		@ 85
150	75%	101.0	68%	0.673	75	20.40%	@ 75
100	50%	68.0	46%	0.680	65	36.50%	@ 65
50	25%	47.0	32%	0.940	65	36.50%	@ 65
						_	_
			WT Unloadi				
Capacity	% Capacity	kW	%kW	kW/ton	CWT		
200				0.740			
150		126.8		0.845			
100	50%	107.1	72%	1.071			
50	25%	74.0	50%	1.480	85		
Ice Making							
	3.V		VT Unloadir			1	
Capacity	3.V % Capacity	kW	%kW	kW/ton	CWT	ambient reduct	[
Capacity 200	3.V % Capacity 100%	kW 216.0	%kW 100%	kW/ton 1.080	85	0	
Capacity 200 150	3.V % Capacity 100% 75%	kW 216.0 132.0	%kW 100% 61%	kW/ton 1.080 0.880	85 75	0 20.40%	@ 75
Capacity 200 150 100	3.V % Capacity 100% 75% 50%	kW 216.0 132.0 89.0	%kW 100% 61% 41%	kW/ton 1.080 0.880 0.890	85 75 65	0 20.40% 36.50%	@ 75 @ 65
Capacity 200 150	3.V % Capacity 100% 75% 50%	kW 216.0 132.0	%kW 100% 61%	kW/ton 1.080 0.880	85 75	0 20.40% 36.50%	@ 75 @ 65
Capacity 200 150 100	3.V % Capacity 100% 75% 50% 25%	kW 216.0 132.0 89.0 76.0	%kW 100% 61% 41% 35%	kW/ton 1.080 0.880 0.890 1.520	85 75 65	0 20.40% 36.50%	@ 75 @ 65
Capacity 200 150 100 50	3.V % Capacity 100% 75% 50% 25% 4. C	kW 216.0 132.0 89.0 76.0 onstant EC	%kW 100% 61% 41% 35% WT Unloadi	kW/ton 1.080 0.880 0.890 1.520	85 75 65 65	0 20.40% 36.50%	@ 75 @ 65
Capacity 200 150 100 50 Capacity	3.V % Capacity 100% 75% 50% 25% 4. C % Capacity	kW 216.0 132.0 89.0 76.0 onstant EC kW	%kW 100% 61% 41% 35% WT Unloadi %kW	kW/ton 1.080 0.880 0.890 1.520 ng kW/ton	85 75 65 65 CWT	0 20.40% 36.50%	@ 75 @ 65
Capacity 200 150 100 50 Capacity 200	3.V % Capacity 100% 75% 50% 25% 4. C % Capacity 100%	kW 216.0 132.0 89.0 76.0 onstant EC kW 216.0	%kW 100% 61% 41% 35% WT Unloadi %kW 100%	kW/ton 1.080 0.880 0.890 1.520 ng kW/ton 1.080	85 75 65 65 65 CWT	0 20.40% 36.50% 36.50%	@ 75 @ 65
Capacity 200 150 50 Capacity 200 150	3.V % Capacity 100% 75% 50% 25% 4. C % Capacity 100% 75%	kW 216.0 132.0 89.0 76.0 onstant EC' kW 216.0 165.8	%kW 100% 61% 41% 35% WT Unloadi %kW 100% 77%	kW/ton 1.080 0.880 0.890 1.520 ng kW/ton 1.080 1.106	85 75 65 65 65 CWT 85 85	0 20.40% 36.50% 36.50%	@ 75 @ 65
Capacity 200 150 100 50 Capacity 200	3.V % Capacity 100% 75% 50% 25% 4. C % Capacity 100% 75% 50%	kW 216.0 132.0 89.0 76.0 onstant EC' kW 216.0 165.8	%kW 100% 61% 41% 35% WT Unloadi %kW 100%	kW/ton 1.080 0.880 0.890 1.520 ng kW/ton 1.080	85 75 65 65 65 CWT 85 85	0 20.40% 36.50% 36.50%	@ 75 @ 65



#### 25% Ethylene Glycol Properties, Discharging

Spec Grav	1.04	
Density	64.90	lbm/cf
Viscosity	3.07	centipoise
Viscosity	0.0307	poise
Viscosity	0.00206	lbm/(ft*s)

	G	Glycol Property Interpolation								
	20%	25%	30%							
40	2.59		3.54							
40	2.59	3.065	3.54							
50	2.18		2.95							

skyline coil	Branch #	AHU	Individual Flows gpm	Entering branch flow gpm	Pipe D in.	Pipe D ft.	Pipe Area (sf)	Eq H Run Length ft	Volume flow (cf/s)	Velocity (ft/s)	Density (lbm/cf)	µ@49 F	εft (steel)	ε/D	Re	f	Δh	Coil Pdrop	running pipe	running @ coil
021	CHWP-01	1	43.0	1200.8	10.0	0.833	0.54542	220.0	2.675	4.9053	64.90	0.00206	0.00015	0.000180	1.29E+05	0.0155	1.52891	4.84	1.53	6.37
035	CHWP-02	2	173.2	1157.8	8.0	0.667	0.34907	122.5	2.580	7.3898	64.90	0.00206	0.00015	0.000225	1.55E+05	0.0170	2.648858	31.25	4.18	35.43
025	CHWP-03	3	83.9	984.5	8.0	0.667	0.34907	122.5	2.194	6.2841	64.90	0.00206	0.00015	0.000225	1.32E+05	0.0170	1.915474	10.69	6.09	16.78
025	CHWP-04	4	77.5	900.6		0.667	0.34907	122.5	2.007	5.7484	64.90		0.00015	0.000225		0.0175		9.39	7.74	17.13
014	CHWP-05	9	56.0	823.1	8.0	0.667	0.34907	122.5	1.834	5.2539	64.90		0.00015	0.000225	1.10E+05	0.0180	1.417688	6.15	9.16	15.31
010	CHWP-06	6	36.6			0.667	0.34907	122.5	1.709	4.8968	64.90		0.00015	0.000225		0.0180		4.52	10.39	14.91
010	CHWP-07	5	46.3	730.6		0.667	0.34907	122.5	1.628	4.6633	64.90		0.00015	0.000225		0.0180	1.116856	5.67	11.51	17.18
025	CHWP-08	7	129.1	684.3		0.667	0.34907	122.5	1.525	4.3680	64.90		0.00015	0.000225		0.0185		15.66	12.52	28.18
021	CHWP-09	8	92.5	555.2		0.500	0.19635	122.5	1.237	6.3001	64.90		0.00015	0.000300		0.0185	2.793508	13.13	15.31	28.44
014	CHWP-10	11	78.5	462.7	6.0	0.500	0.19635	122.5	1.031	5.2501	64.90		0.00015	0.000300		0.0190		13.02	17.30	30.32
2 x 045	CHWP-11	12	134.5	384.1	5.0	0.417	0.13635	122.5	0.856	6.2767	64.90		0.00015	0.000360		0.0190	3.417237	15.83	20.72	36.55
2 x 055	CHWP-12	10	99.0	249.6		0.333	0.08727	122.5	0.556	6.3734	64.90		0.00015	0.000450		0.0205		19.07	25.47	44.54
010	CHWP-13	14	40.9	150.6		0.333	0.08727	122.5	0.336	3.8460	64.90		0.00015	0.000450		0.0225		3.89	27.37	31.26
035	CHWP-14	13	109.8	109.8	3.0	0.250	0.04909	122.5	0.245	4.9815	64.90	0.00206	0.00015	0.000600	3.92E+04	0.0225	4.248266	11.66	31.62	
								1812									31.61882			44.54
	Vertical Ru	n	1200.8	1200.8	10.0	0.833	0.54542	128.0	2.675	4.9053	64.90	0.00206	0.00015	0.000180	1.29E+05	0.0170	0.975633			
																		F		
																		L	45.52	tt wg

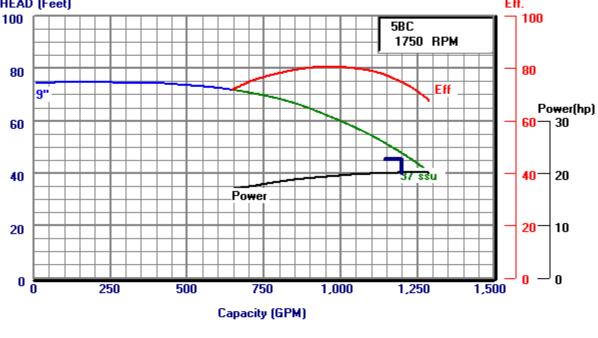
	Individual Flows gpm	Entering branch flow gpm	Pipe D in.	Pipe D ft.	Pipe Area (sf)	Eq V Run Length ft	Volume flow (cf/s)	Velocity (ft/s)	Density (lbm/cf)	µ@49 F	εft (steel)	ε/D	Re	f	Δh		
Condenser Pump	1800	n/a	12.0	1.000	0.78540	128	4.010	5.1062	64.90	0.00206	0.00015	0.000150	1.61E+05	0.0160	0.829169	0.8291693 ft	t wg
														(@ disch)	cond	22.8 ft	t wg

23.629169 ft wg

	1510 5B	С	
Flow Rate (GPM)	1200	Pump Head (Feet)	45.52
Viscosity (SSU)	37	Specific Gravity	1.04
Speed (RPM)	1750	NPSHr (Feet)	16.8
Weight (lbs)	610	Cost Index	100%
Suction Size (in.)	6	Suction Velocity (fps)	13.3
Discharge Size (in.)	5	Discharge Velocity (fps)	19.2
Impeller Size (in.)	9.0	Pump Efficiency (%)	76.10
Max. Flow (GPM)	1287	Duty Flow/Max Flow (%)	93.3
Flow @ BEP (GPM)	975	Min. Rec. Flow (GPM)	243.7
Selected Motor Size (HP)	20	Selected Motor Size (kw)	14.91
Duty-Point Power (BHP)	19.02	Duty-Point Power (kw)	14.18
Maximum Power (BHP)	19.64	Maximum Power (kw)	14.65
Motor Manufacturer	US Prem Eff	Full Load Amps	24.00
Manufacturer Catalog Numbe	er E906	Full Load Efficiency (%)	94.0
Frame Size	256T	Full Load Power Factor (%	) 80.4

## Select another pump Return to Bell & Gosssett Home Page

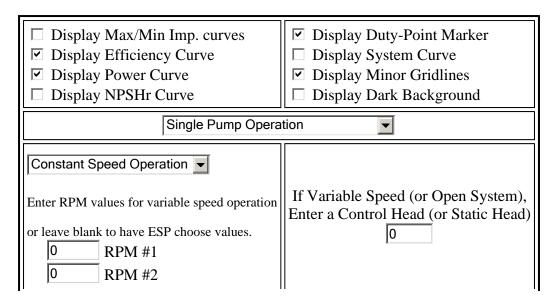




Pump Series:       1510       Min Imp Dia = 7 "       Design Capacity =1200.0       ITT Bell & Go         Suction Size = 6 "       Max Imp Dia = 9.5 "       Design Head =45.5       8200 N. Austrict Austring Austrin Austrict Austrict Austrict Austrict Austringt Austrict
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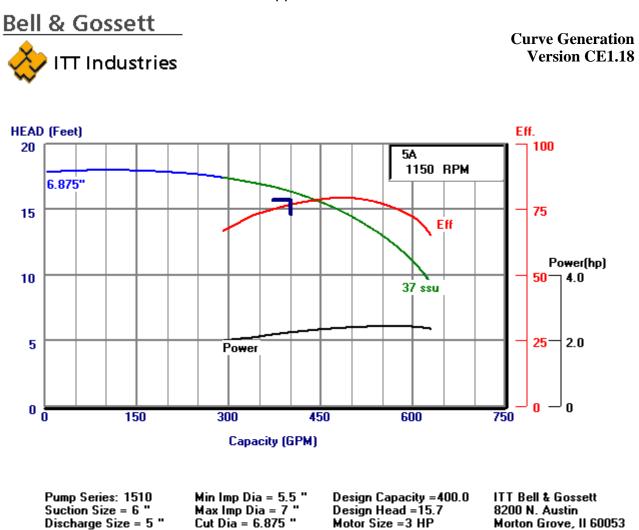
The Power and Eff. curves shown are corrected for viscosity.

# **Generate Another Pump Curve**



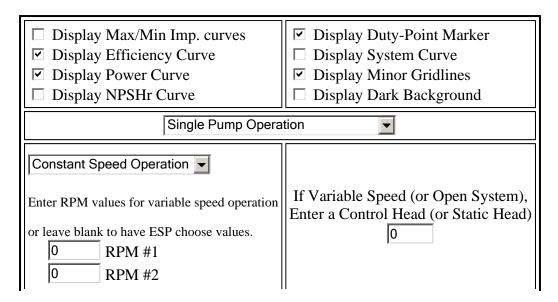
	1510 5A	L	
Flow Rate (GPM)	400	Pump Head (Feet)	15.7
Viscosity (SSU)	37	Specific Gravity	1.04
Speed (RPM)	1150	NPSHr (Feet)	3.0
Weight (lbs)	440	Cost Index	100%
Suction Size (in.)	6	Suction Velocity (fps)	4.4
Discharge Size (in.)	5	Discharge Velocity (fps)	6.4
Impeller Size (in.)	6.875	Pump Efficiency (%)	80.88
Max. Flow (GPM)	619	Duty Flow/Max Flow (%)	64.6
Flow @ BEP (GPM)	491	Min. Rec. Flow (GPM)	122.7
Selected Motor Size (HP)	3	Selected Motor Size (kw)	2.24
Duty-Point Power (BHP)	2.06	Duty-Point Power (kw)	1.54
Maximum Power (BHP)	2.27	Maximum Power (kw)	1.69
Motor Manufacturer	US High Eff	Full Load Amps	4.40
Manufacturer Catalog Number	r R334	Full Load Efficiency (%)	89.5
Frame Size	213T	Full Load Power Factor (%)	64.2

## Select another pump Return to Bell & Gosssett Home Page



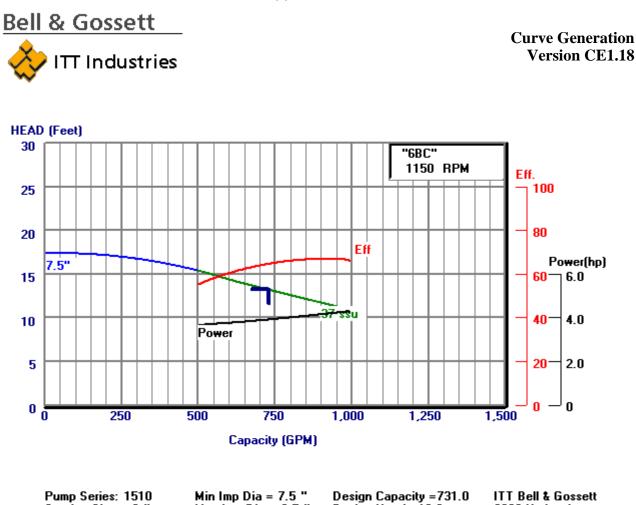
The Power and Eff. curves shown are corrected for viscosity.

# **Generate Another Pump Curve**



1510 6BC								
Flow Rate (GPM)	731	Pump Head (Feet)	13.25					
Viscosity (SSU)	37	Specific Gravity	1.04					
Speed (RPM)	1150	NPSHr (Feet)	3.9					
Weight (lbs)	560	Cost Index	100%					
Suction Size (in.)	8	Suction Velocity (fps)	4.7					
Discharge Size (in.)	6	Discharge Velocity (fps)	8.1					
Impeller Size (in.)	7.5	Pump Efficiency (%)	68.19					
Max. Flow (GPM)	992	Duty Flow/Max Flow (%)	73.7					
Flow @ BEP (GPM)	901	Min. Rec. Flow (GPM)	225.2					
Selected Motor Size (HP)	5	Selected Motor Size (kw)	3.73					
Duty-Point Power (BHP)	3.73	Duty-Point Power (kw)	2.78					
Maximum Power (BHP)	4.07	Maximum Power (kw)	3.04					
Motor Manufacturer	US Prem Eff	Full Load Amps	7.20					
Manufacturer Catalog Numbe	er R338	Full Load Efficiency (%)	89.9					
Frame Size	215T	Full Load Power Factor (%	)66.6					

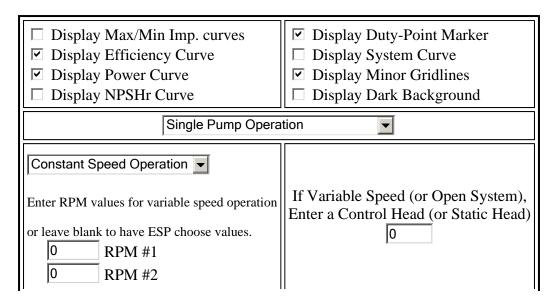
## Select another pump Return to Bell & Gosssett Home Page



Pump Series: 1510Min Imp Dia = 7.5 "<br/>Max Imp Dia = 9.5 "Design Capacity = 731.0ITT Bell & Gossett<br/>8200 N. Austin<br/>Motor Size = 5 HPDischarge Size = 6 "Cut Dia = 7.5 "Motor Size = 5 HPMorton Grove, II 60053

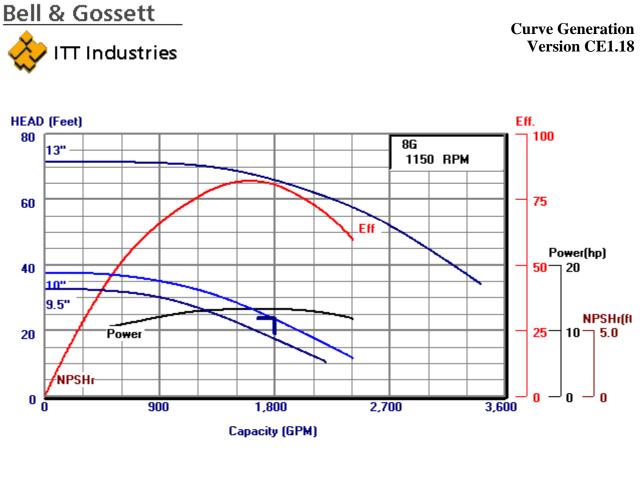
The Power and Eff. curves shown are corrected for viscosity.

# **Generate Another Pump Curve**



<b>1510 8</b> G	r F	
1800	Pump Head (Feet)	23.6
1150	NPSHr (Feet)	n/a
1120	Cost Index	100%
10	Suction Velocity (fps)	7.3
8	Discharge Velocity (fps)	11.5
10.0	Pump Efficiency (%)	80.63
2409	Duty Flow/Max Flow (%)	74.7
1489	Min. Rec. Flow (GPM)	372.3
15	Selected Motor Size (kw)	11.19
13.29	Duty-Point Power (kw)	9.91
13.23	Maximum Power (kw)	9.87
US Prem Eff	Full Load Amps	18.40
: J473	Full Load Efficiency (%)	92.8
284T	Full Load Power Factor (%)	)79.4
	1800 1150 1120 10 8 10.0 2409 1489 15 13.29 13.23 US Prem Eff J473	1800       Pump Head (Feet)         1150       NPSHr (Feet)         1120       Cost Index         10       Suction Velocity (fps)         8       Discharge Velocity (fps)         10.0       Pump Efficiency (%)         2409       Duty Flow/Max Flow (%)         1489       Min. Rec. Flow (GPM)         15       Selected Motor Size (kw)         13.29       Duty-Point Power (kw)         13.23       Maximum Power (kw)         US Prem Eff       Full Load Amps         Y473       Full Load Efficiency (%)

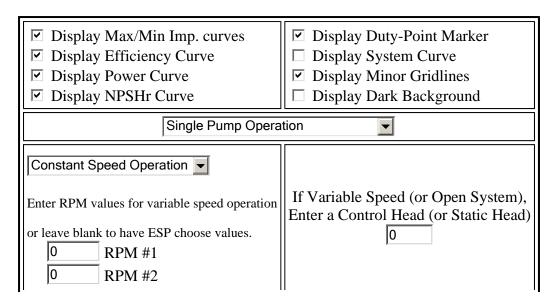
Select another pump Return to Bell & Gosssett Home Page



Min Imp Dia = 9.5 "	Design Capacity =1800.0	ITT Bell & Gossett
Max Imp Dia = 13 "	Design Head =23.6	8200 N. Austin
Cut Dia = 10 "	Motor Size =15 HP	Morton Grove, II 60053
	Max Imp Dia = 13 "	Max Imp Dia = 13 " Design Head =23.6

The Power and Eff. curves shown are for the cut dia. impeller.

# **Generate Another Pump Curve**



Product Line: NC Class Model NC8305J1 No. of Cells 1 Motor 40 HP, 1800 RPM Motor Output 40.0 BHP Tower Flow Rate 1800 GPM Hot Water Temp. 95.00 °F Cold Water Temp. 85.00 °F Wet-Bulb Temp. 75.00 °F ## CTI Certified ## Fan 8.00 ft Dia., 6 Blades Fan Speed 473 RPM, 11888 ft/min Air Flow 147400 CFM Per Cell 147400 CFM Total Weights: Per Cell \*\* Total \*\* Shipping 9147 lb 9147 lb Max. Operating 19442 lb 19442 lb Dimensions: Per Cell Total Width 18.75 ft 18.75 ft 10.90 ft Length 10.90 ft Height 12.98 ft 12.98 ft Static Lift 12.23 ft For CAD layouts refer to DXF file NC8305 Minimum Clearance for Enclosures: Clearance required on air inlet sides of tower without altering performance. Assumes no air from below tower. 8.06 ft Solid Wall 50% Open Wall 6.31 ft Collection Basin Heater Sizing: Minimum ambient temperature to maintain water at 40.00 이단 Heater kW/Cell 18.0 15.0 12.0 9.0 7.5 4.5 6.0 Ambient Temp °F -16.14 -6.05 4.04 14.13 19.17 24.22 29.26

## MONTHLY ENERGY CONSUMPTION

By psuae

Alternative: 1 PA Lab Facility

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	Monthly Energy Consumption												
Utility	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
Electric													
On-Pk Cons. (kWh)	561,428	506,213	553,879	545,417	664,702	720,629	827,665	753,052	667,750	584,283	550,933	554,303	7,490,254
On-Pk Demand (kW) Off-Pk Demand (kW)	814 922	817 919	793 1,154	798 1,148	852 1,223	1,017 1,305	1,408 1,474	1,053 1,275	987 1,263	799 1,172	809 1,160	814 904	1,408 1,474
Gas													
On-Pk Cons. (therms)	12,607 24	11,994	8,808 17	5,347	2,244	1,186	700	908	1,596	5,129 10	6,689	9,907 19	67,115
On-Pk Demand (therms/hr)	24	24	17	11	4	3	3	3	4	10	14	19	24
Water													
Cons. (1000gal)	0	0	45	159	631	922	1,253	1,021	709	242	127	0	5,109
Building Energy Consump Source Energy Consumpt Floor Area =			722,797 1,875,871 44,654	Btu/(ft2-									

## MONTHLY UTILITY COSTS

By psuae

Alternative: 1

					N	/Ionthly U	tility Cost	s					
Utility	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
Electric													
On-Pk Cons. (\$) On-Pk Demand (\$)	42,316 4,788	40,107 4,801	41,491 4,661	41,262 4,690	47,432 5,006	56,368 5,971	71,072 8,258	58,670 6,187	53,415 5,797	42,886 4,697	41,762 4,757	42,005 4,783	578,787 64,396
Total (\$):	47,104	44,908	46,152	45,952	52,438	62,339	79,331	64,857	59,212	47,583	46,519	46,788	643,183
Gas													
On-Pk Cons. (\$)	2,243	2,141	1,612	1,038	522	347	266	301	415	1,001	1,260	1,795	12,941
Monthly Total (\$):	49,346	47,049	47,764	46,990	52,960	62,685	79,597	65,158	59,627	48,585	47,780	48,583	656,124



## FEATURES & SPECIFICATIONS

#### INTENDED USE

High performance deep-cell parabolic luminaires for superior light control, visual comfort and light cutoff in open area applications.

#### ATTRIBUTES

Designed for optimal performance with T8 lamps and electronic ballasts. Choice of low iridescent diffuse or specular louver finishes. Also available with Achroma<sup>™</sup> non-iridescent louver finish.

#### CONSTRUCTION

Black reveal provides floating louver appearance, conceals optional air-supply slots.

Integral T-bar safety clips hold T-bar securely; no fasteners required to install.

Overlapping flange and modular ceiling trims factory-installed with standard swing-gate hangers or field convertible with optional trim and hangers. T-hinges die-formed for maximum strength. Latches spring-loaded, concealed in reveal.

Optional heat-removal dampers and air closure strips to control airflow.

Housing formed from cold-rolled steel. Louvers formed from anodized aluminum. No asbestos is used in this product.

#### FINISH

Five-stage iron-phosphate pretreatment ensures superior paint adhesion and rust resistance. Painted parts finished with high-gloss, baked white enamel.

#### **ELECTRICAL SYSTEM**

Thermally-protected, resetting, Class P, HPF, non-PCB, UL Listed, CSA certified ballast is standard. Energy saving and electronic ballasts are sound rated A.

Luminaire is suitable for damp locations. AWM, TFN or THHN wire used throughout, rated for required temperatures.

#### LISTING

UL Listed (standard). CSA Certified or NOM Certified (see Options).

#### WARRANTY

Guaranteed for one year against mechanical defects in manufacture. Specifications subject to change without notice.

## **ORDERING INFORMATION**

2PM3N					
Series	Air function	Lamp type	Voltage		Options
3" deep cell parabolic, 2' wide <b>Trim type</b>	<ul> <li>A Air supply/return (slots in side trim)</li> <li>H Heat removal (through lamp cavity, dampers available)</li> <li>B No air function</li> <li>D Dual function</li> </ul>	32 32W T8 (48") 40 40W T12 (48") Number of lamps 2, 3, 4	<b>120, 277, 347,</b> <b>MVOLT</b> <sup>2</sup> Others available.	1/4 GEB GEB10IS GEB10RS	One 3-lamp ballast One 4-lamp ballast Electronic ballast, ≤20% THD Electronic ballast, ≤10% THD, Instant Start Electronic ballast, ≤10% THD, Rapid Start Emergency battery pack (nominal 300 lumens; see Fluorescent Battery Packs tab)
<ul> <li>G Grid</li> <li>F Overlapping flange</li> <li>MT Modular fit-in</li> <li>ST Screw slot</li> </ul>	supply/return/ removal	Not included. Number of cells <sup>1</sup> 12 , 16 , 18 , 24, 32	Louver finish LD Low iridescent anodized diffuse silver ND Achroma™	PWS1836 GLR GMF LP CRE	Tandem fixture pairs (shared ballasts) 6' prewire, 3/8" dia., 18-gauge, 3 wires Internal fast-blow fuse Internal slow-blow fuse Lamped; specify lamp type and color Flanged trim for continuous row mounting (end) Flanged trim for continuous row mounting (middle)
<ul> <li>NOTES:</li> <li>1 Typical cell configuratio by lamp quantity unless otherwise.</li> <li>2 MVOLT available with G</li> <li>3 Consult factory for hous</li> <li>4 Available with 3-lamp 18 only.</li> </ul>	s specified GEB10IS only. ing depth.		non-iridescent diffuse silver LS Low iridescent anodized specular silver <sup>3</sup> C Diffuse gold anodized (champagne) <sup>3</sup> W White enamel <sup>3</sup>	ACS HRD APB PAF 2R JP CSA	Air closure strips (A and D models only) Heat-removal dampers Air-pattern control blades (A and D models only) <sup>3</sup> Painted after fabrication (white enamel) <sup>3</sup>

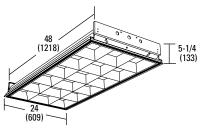
# Type PARAMAX® Parabolic Troffer



**Specifications** Length: 24 (609) Width: 48 (1218) Depth: 5-1/4 (133) Weight: 35 lbs (15.9 kg)

Catalog Number

Notes



All dimensions are inches (millimeters).

#### Example: 2PM3N G B 3 32 18LD 120 GEB

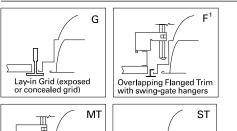
Fluorescent

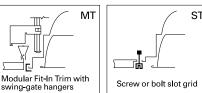
5-1/4

## **MOUNTING DATA**

Continuous row mounting of flanged units requires CRE and CRM trim options (see options).

Ceiling Type	Appropriate Trim Type
Exposed grid tee	G
Concealed grid tee	G, ST
Concealed Z-spline	F, MT
Metal pan (consult factory)	МТ
Screw slot (consult factory)	ST
Acoustical tile, plaster or plasterboard on rigid support parallel to lamps	F





#### NOTE:

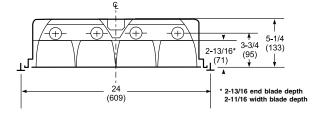
1 Recommended rough-in dimensions for F trim fixtures 24"x48" (Tolerance is +1/4", -O"). Swing-gate range 1-7/16" to 3-7/16", span 23-1/2" to 26-7/16".

## PHOTOMETRICS

Calculated using the zonal cavity method in accordance with IESNA LM41 procedures. Floor reflectances are 20%. Lamp configurations shown are typical. Full photometric data on these and other configurations available upon request.

Ţ <u>Ţ</u>		$-L_{-L_{-L_{-L_{-L_{-L_{-L_{-L_{-L_{-L_{$	4 (133) ↓
(	24 (609)	* 2-13/16 end 2-11/16 width	blade depth n blade depth
	Q		
	$\oplus$ 2R $\oplus$ $\oplus$	<b>v</b> 4	<b>↑</b> 5 <b>-</b> 1/4
	I Y Y	2-13/16 <sup>*</sup> 3-3/4 (71) € (95)	(133)
Ī		* 2-13/16 end b	ade depth
	24 609)	► 2-11/16 width	

DIMENSIONS



61 (LD louver) \$3.96

F

Energy (C	<b>Energy</b> (Calculated in accordance with NEMA standard LE-5)										
LER.FP	ANNUAL ENERGY COST*	LAMP DESCRIPTION	LAMP LUMENS	BALLAST FACTOR	WATTS						
62 (LD louve	er) \$3.87	(2) 32WT8	2850	.88	62						
60 (ND louv	er) \$4.00	(2) 32WT8	2850	.88	62						
66 (LD louve	er) \$3.64	(3) 32WT8	2850	.88	86						
62 (ND louv	er) \$3.87	(3) 32WT8	2850	.88	86						

(4) 32WT8

#### \* Comparative yearly lighting energy cost per 1000 lumens

#### 2PM3N 4 32 32LD

## Report LTL 6366 – Lumens per lamp = 2900 S/MH (along) 1.2 (across) 1.3

2850

.88

111

#### **Coefficient of Utilization**

					-				
Ceilin	g	80%	30% 70% 50%						
Wall	70%	50%	30%	70%	50%	30%	50%	30%	10%
0	80	80	80	78	78	78	74	74	74
1	75	72	70	73	71	69	68	66	65
2	69	65	61	68	64	60	61	59	56
3	64	58	54	63	57	53	55	52	49
4	59	52	47	58	52	47	50	46	43
5	55	47	42	54	47	42	45	41	38
6	51	43	38	50	42	37	41	37	33
7	47	39	34	46	39	34	38	33	30
8	44	36	31	43	35	30	35	30	27
9	41	33	28	40	33	28	32	27	24
10	39	30	25	38	30	25	29	25	22

#### **Zonal Lumens Summary**

Zone	Lumens	%Lamp	%Fixture
0-30	2791	24.1	35.9
0-40	4592	39.6	59.1
0-60	7443	64.2	95.7
0-90	7775	67.0	100.0
90-180	0	0	0
0-180	7775	67.0	100.0

#### Lithonia Lighting

Acuity Lighting Group, Inc. Fluorescent One Lithonia Way, Conyers, GA 30012 Phone: 800-858-7763 Fax: 770-929-8789 In Canada: 1100 50th Ave., Lachine, Quebec H8T 2V3 www.lithonia.com

#### 2PM3N 2 32 12LD Report LTL 6369 – Lumens per lamp = 2900 S/MH (along) 1.3 (across) 1.5

## Coefficient of Utilization

COCI	Guerricientoi unization											
Ceiling	9	80%			70%			50%				
Wall	70%	50%	30%	70%	50%	30%	50%	30%	10%			
0	91	91	91	89	89	89	85	85	85			
1	85	82	79	83	80	77	77	75	73			
2	78	72	68	76	71	67	68	65	62			
3	71	64	58	69	63	58	61	56	53			
4	65	57	51	64	56	50	54	49	45			
5	60	51	44	59	50	44	48	43	39			
6	55	46	39	54	45	39	44	38	34			
7	51	41	35	50	41	35	40	34	30			
8	48	38	31	46	37	31	36	31	27			
9	44	34	28	43	34	28	33	28	24			
10	41	32	26	41	31	25	30	25	22			

#### **Zonal Lumens Summary**

Zone	Lumens	%Lamp	%Fixture
0-30	1256	21.7	28.4
0-40	2133	36.8	48.2
0-60	4074	70.3	92.0
0-90	4428	76.3	100.0
90-180	0	0	0
0-180	4428	76.3	100.0



An ScuityBrands Company

2PM3N 3 32 18LD	
Report LTL 6347 – Lumens per lamp	) = <b>2900</b>
S/MH (along) 1.3 (across) 1.6	

#### **Coefficient of Utilization**

Ceiling		80%			70%			50%	
Wall	70%	50%	30%	70%	50%	30%	50%	30%	10%
0	90	90	90	88	88	88	84	84	84
1	84	81	78	82	79	77	76	74	73
2	77	72	68	76	71	67	68	65	62
3	71	65	60	70	64	59	61	57	54
4	66	58	52	64	57	52	55	51	47
5	61	52	46	59	51	46	50	45	41
6	56	47	41	55	47	41	45	40	36
7	52	43	37	51	42	37	41	36	32
8	49	39	33	48	39	33	38	33	29
9	46	36	30	45	36	30	35	30	26
10	43	33	28	42	33	27	32	27	24

#### **Zonal Lumens Summary**

Zone	Lumens	%Lamp	%Fixture
0-30	2132	24.5	32.5
0-40	3711	42.7	56.6
0-60	6142	70.6	93.7
0-90	6552	75.3	100.0
90-180	0	0	0
0-180	6552	75.3	100.0
0-60 0-90	6142 6552	70.6 75.3	93.7 100.0

Type

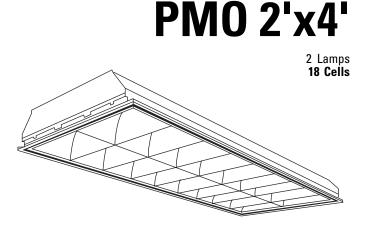
Catalog number

## FEATURES

- · Full family of light controlling parabolic luminaires designed to control screen glare in VDT open office environments.
- Meets IES RP-1 minimum luminance criteria for office lighting systems in VDT applications.
- · Choice of diffuse or specular louvers utilize the latest developments in louver finishing for minimized louver iridescence. Ideal for use with triphosphor lamps.
- Black reveal provides floating louver appearance, conceals optional air-supply slots.
- Overlapping flange and modular ceiling trims factory-installed with standard swing-gate hangers or field convertible with optional trim and hanger kits.
- Optional heat-removal dampers and air-pattern control blades allow airflow control.
- T-hinges die-formed for maximum strength. Latches springloaded, concealed in reveal.
- · Guaranteed for one year against mechanical defects in manufacture.

## SPECIFICATIONS

- BALLAST Thermally-protected, resetting, Class P, HPF, non-PCB, UL listed, CSA certified ballast is standard. Energysaving and electronic ballasts are sound rated A. Standard combinations are CBM approved and conform to UL 935.
- WIRING & ELECTRICAL Fixture conforms to UL 1570 and is suitable for damp locations. AWM, TFN or THHN wire used throughout, rated for required temperatures.
- MATERIALS Housing formed from cold-rolled steel. Louvers formed from anodized aluminum. No asbestos is used in this product.
- FINISH Five-stage iron-phosphate pretreatment ensures superior paint adhesion and rust resistance. Painted parts finished with high-gloss, baked white enamel.
- LISTING UL listed and labeled. Listed and labeled to comply with Canadian Standards and Mexican Standards (see options). Specifications subject to change without notice.



**Optimax® Parabolic Light Control System** 

## ENERGY

 Luminaire Efficacy Rating (LER) and Annual Energy Cost/1000 Lumens:

2-lamp LER.FP (LS louver) = 54. Annual energy cost = \$4.44. Based on 32W T8 lamps, 2850 lumen lamp and electronic ballast with ballast factor = .88 and input watts = 62.

Calculated in accordance with NEMA standard LE-5.

## PHOTOMETRICS

Calculated using the zonal cavity method in accordance with IESNA LM41 procedure. Floor reflectances are 20%. Lamp configurations shown are typical. Full photometric data on these and other configurations available upon request.

#### 2PM0 GB 2 32 18LS

Report LTL 6028 - Lumens per lamp = 2900 S/MH (along) 1.2 S/MH (across) 1.3 **Coefficient of Utilization** 

Ceiling Wall	70%	80% 50%	30%	70%	70% 50%	30%	50%	50% 30%	10%
0	80	80	80	78	78	78	75	75	75
1	76	74	72	74	72	71	70	68	67
2	72	68	65	70	67	64	65	62	60
3	67	62	59	66	61	58	60	57	54
4	63	57	53	62	56	53	55	52	49
5	59	52	48	58	52	47	50	47	44
6	55	48	43	54	48	43	47	43	40
7	51	44	39	50	43	39	42	38	35
8	47	40	35	46	39	35	38	34	31
9	44	36	31	43	35	31	35	30	27
10	41	33	28	40	32	28	32	27	24

#### **Zonal Lumens Summary**

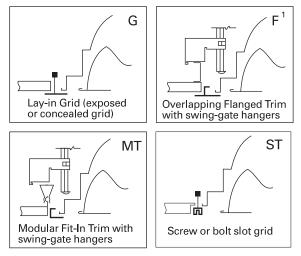
Luminance Summary - cd/m<sup>2</sup> Zone Lumens %Lamp %Fixture Angle 0 45 90 0-30 1675 28.9 43.0 1839 3096 3582 45 0-40 2728 47.0 70.0 55 76 832 574 0-60 3896 67.2 100.0 65 0 0 0 0-90 3898 100.0 75 67.2 0 0 0 90-180 0 0 0 85 0 0 0 3898 67.2 100.0 0-180



## **MOUNTING DATA**

Continuous row mounting of flanged units requires CRE and CRM trim options (see Options).

Ceiling Type	Appropriate Trim Type
Exposed grid tee	G
Concealed grid tee	G, ST
Concealed Z-spline	F, MT
Metal pan (consult factory)	MT
Screw slot (consult factory)	ST
Acoustical tile, plaster, or plasterboard on rigid support parallel to lamps	F

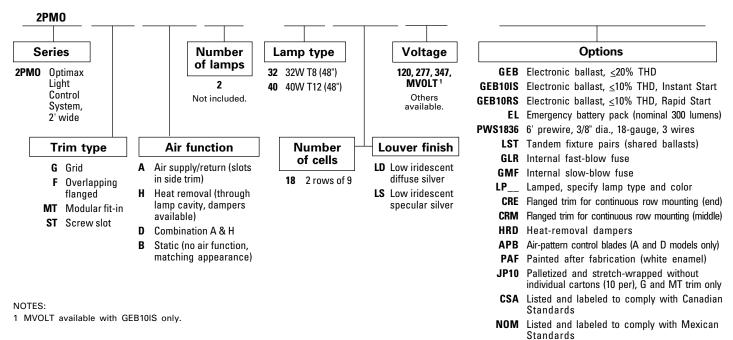


NOTES:

1 Recommended rough-in dimensions for F trim fixtures 24"x48" (Tolerance

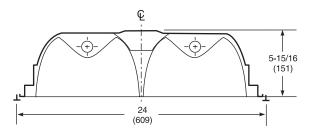
is +1/4", -O"). Swing-gate range 1" to 3-1/4", span 23-1/2" to 26-5/16".

# **ORDERING INFORMATION**



## DIMENSIONS

Inches (millimeters). Subject to change without notice.



**PMO 2X4 18** © 1995 Lithonia Lighting, Rev. 5/00 PMO 2X4 18.p65 COMMERCIAL FLUORESCENT LIGHTING ONE LITHONIA WAY, CONVERS, GEORGIA 30012, TELEPHONE 770-922-9000, FAX 770-929-8789 www.ithonia.com • IN CANADA: 1100 50TH AVE., LACHINE, GUEBEC HBT 2V3

#### Example: 2PMO G B 2 32 18LD 120 GEB

Catalog number

## **FEATURES**

- · Full family of light controlling parabolic luminaires designed to control screen glare in VDT open office environments.
- · Efficiently delivers appropriate illumination level for paper-based tasks.
- Models available to meet IES RP-1 preferred luminance criteria for office lighting systems in VDT applications.
- · Choice of diffuse or specular louvers utilize the latest developments in louver finishing for minimized louver iridescence. Ideal for use with triphosphor lamps.
- Black reveal provides floating louver appearance, conceals optional air supply slots.
- · Overlapping flange and modular ceiling trims factory installed with standard swing-gate hangers or field convertible with optional trim and hanger kits.
- · Optional heat-removal dampers and air-pattern control blades allow airflow control.
- T-hinges die-formed for maximum strength. Latches springloaded, concealed in reveal.
- · Guaranteed for one year against mechanical defects in manufacture.

## SPECIFICATIONS

- BALLAST Thermally protected, resetting, Class P, HPF, non-PCB, UL listed, CSA certified ballast is standard. Energy-saving and electronic ballasts are sound rated A. Standard combinations are CBM approved and conform to UL 935.
- WIRING & ELECTRICAL Fixture conforms to UL 1570 and is suitable for damp locations. AWM, TFN or THHN wire used throughout, rated for required temperatures.
- MATERIALS Housing formed from cold-rolled steel. Louvers formed from anodized aluminum. No asbestos is used in this product.
- FINISH Five-stage iron-phosphate pretreatment ensures superior paint adhesion and rust resistance. Painted parts finished with high-gloss, baked white enamel.
- LISTING UL listed and labeled. Listed and labeled to comply with Canadian and Mexican Standards (see options).

Specifications subject to change without notice.

## PHOTOMETRICS

Calculated using the zonal cavity method in accordance with IESNA LM41 procedures. Floor reflectances are 20%. Lamp configurations shown are typical. Full photometric data on these and other configurations available upon request.

Luminance Summary - cd/m<sup>2</sup>

9 9

0 0 23

45 Across

7240 4997

1672 96

#### 2PM0 G B 3 U31 12LS Report LSI 7565 S/MH (along) 1.2 (across) 1.5 **Coefficient of Utilization**

COGI	icie	πυ	υιι	Izaliu					
Ceiling		80%			70%			50%	
Wall	70%	50%	30%	70%	50%	30%	50%	30%	10%
1	68	66	65	67	65	64	63	61	60
2	64	61	59	63	60	58	58	56	54
3	60	56	53	59	55	52	54	51	49
4	57	52	48	56	51	48	50	47	44
5	53	47	43	52	47	43	46	42	40
6	50	44	39	49	43	39	42	39	36
7	46	40	36	46	39	35	39	35	32
8	43	36	32	42	36	32	35	31	29
9	40	33	29	39	32	28	32	28	25
10	37	30	26	36	30	26	29	25	23

#### **Zonal Lumens Summary**

Zone	Lumens	%Lamp	%Fixture	Angle Along
0-30	2300	27.4	45.3	45 6831
0-40	3708	44.2	73.0	55 1391
0-60	5066	60.3	99.8	65 24
0-90	5074	60.4	100.0	75 0
90-180	0	0	0	85 0
0-180	5074	60.4	100.0	

2	67	64
3	63	59
4	60	54
5	56	50
6	52	46
7	49	42
8	45	38
9	42	35
10	39	32

Wall

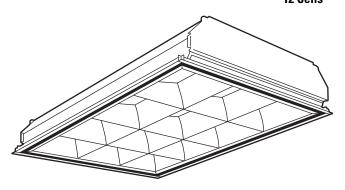
1

#### **Zonal Lumens Summarv**

			-				
Zone	Lumens	%Lamp	%Fixture	Angle	Along	45	Across
0-30	2730	28.9	45.7	45	7814	8833	3649
0-40	4495	47.6	75.2	55	1654	1309	80
0-60	5973	63.2	99.9	65	8	8	8
0-90	5978	63.3	100.0	75	0	0	0
90-180	0	0	0	85	0	0	0
0-180	5978	63.3	100.0				







50%

64 63

37

50%

66

56 52 54

30% 10%

52 49

47

34

27 24

#### Report LSI 7534 S/MH (along) 1.3 (across) 2.1 **Coefficient of Utilization** 80% Ceiling 70% 50% 30% 70% 50% 30% 71

70

66 63 60 61 59 57

62 58

55 49 45 48 44 42

51 45 41 44 41 41 38

48 42 37

44 38 34 37 33 30 30

41 34 30 34

38 31 27 31 27

68 67

58 55

54 50

2PM0 G B 3 CF40 12LS

70 68

61

56

50

46

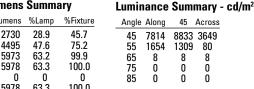
42

38

34

30

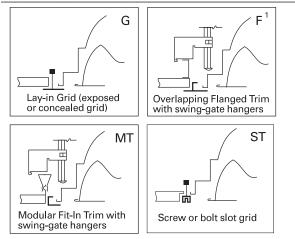
27



## **MOUNTING DATA**

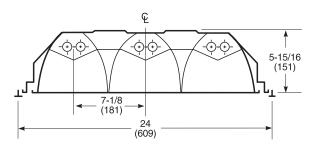
Continuous row mounting of flanged units requires CRE and CRM trim options (see Options).

Ceiling Type	Appropriate Trim Type
Exposed grid tee	G
Concealed grid tee	G, ST
Concealed Z-spline	F, MT
Metal pan (consult factory)	МТ
Screw slot (consult factory)	ST
Acoustical tile, plaster, or plasterboard on rigid support parallel to lamps	F



## DIMENSIONS

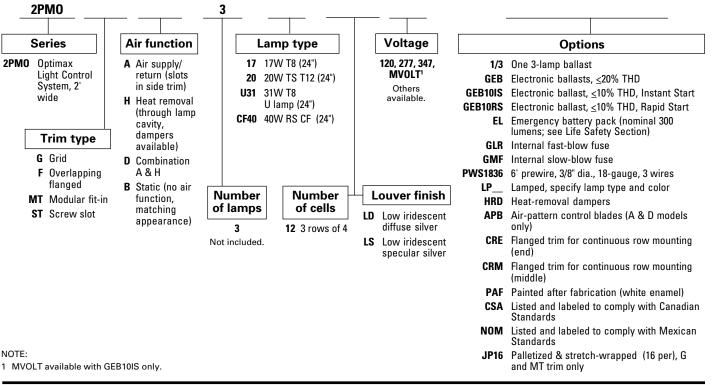
Inches (millimeters). Subject to change without notice.



#### NOTES:

1 Recommended rough-in dimensions for F trim fixtures 24" x 24" (Tolerance is +1/4", -0"). Swing-gate range 1" to 4-3/16", span 23-1/2" to 26-5/16".

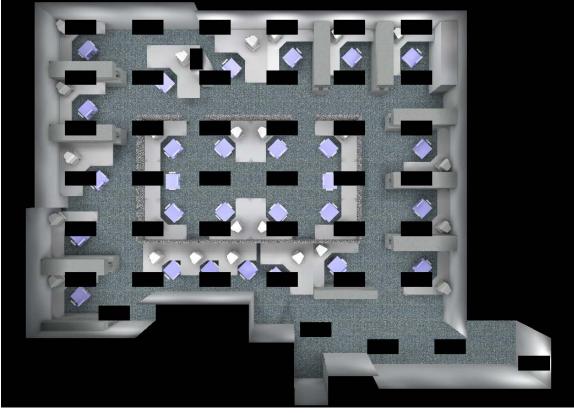
## **ORDERING INFORMATION**



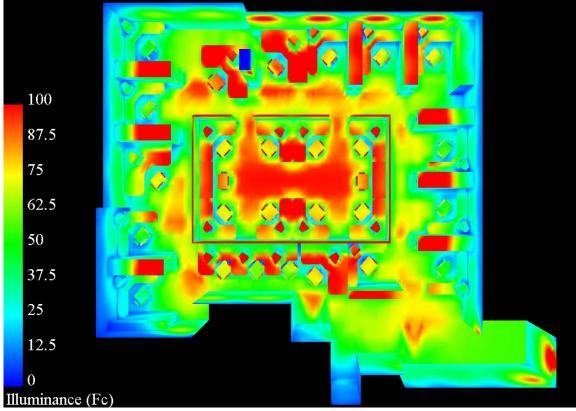


## Example: 2PMO G B 3 17 12LD 120 GEB

Baseline - Plan



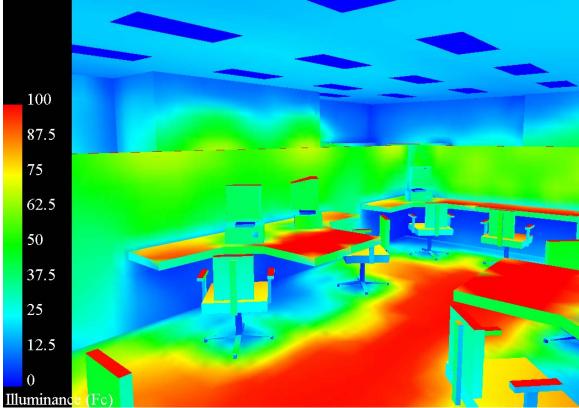
Baseline – Illuminance Plan



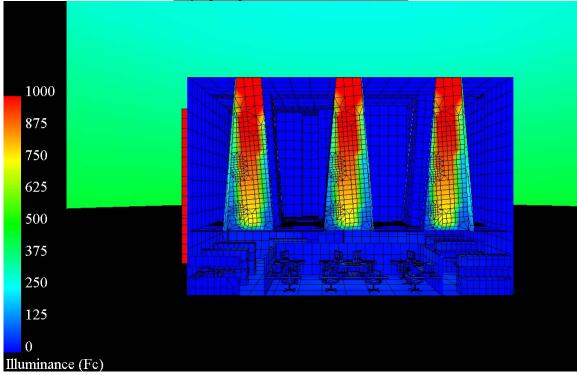
Baseline - Working Area



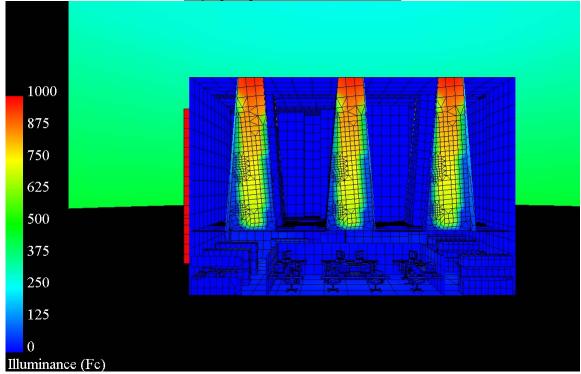
Baseline – Working Area Illuminance



Day-lighting - Over-Lit North Well Walls



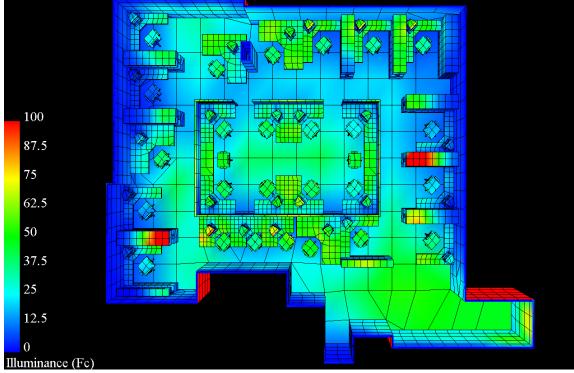




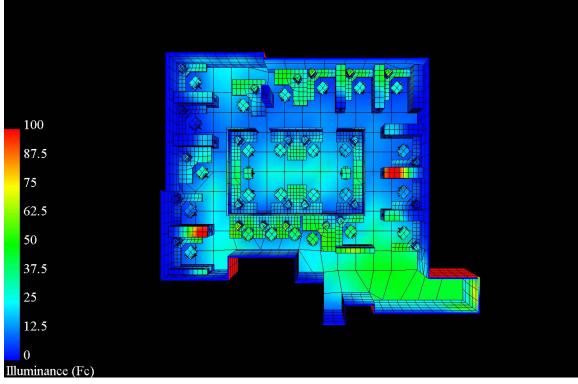
Day-lighting - June 21 11:00am

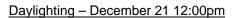


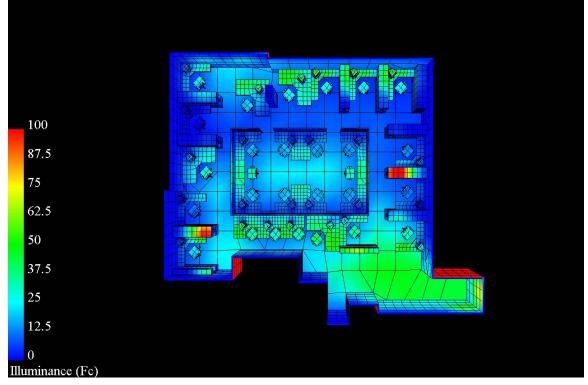


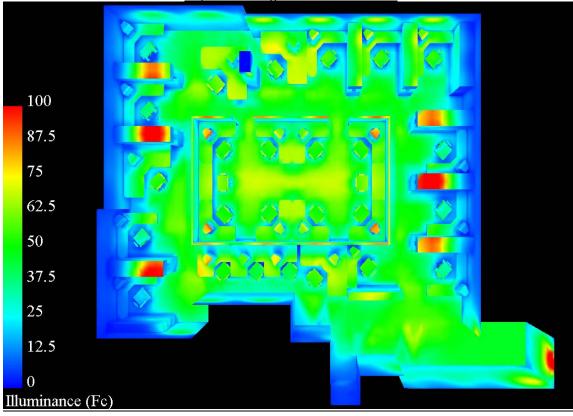


Daylighting - June 21 3:00pm

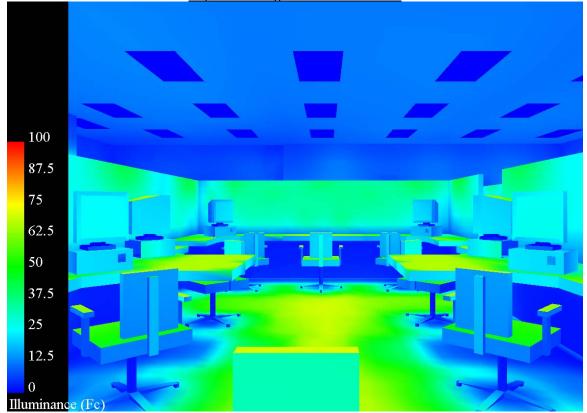






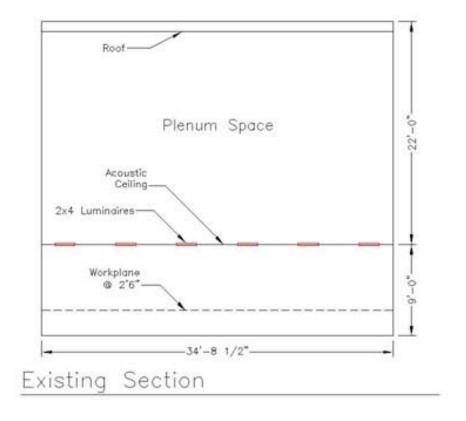


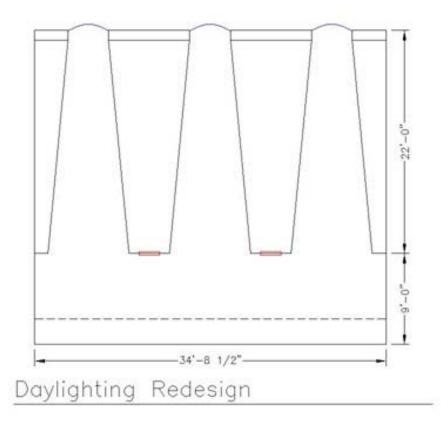
Layout Redesign – VDT Illuminance



Layout Redesign – Illuminance Plan

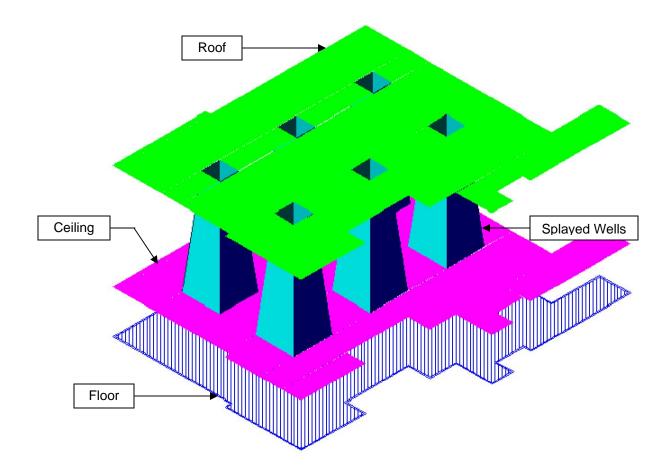
## Appendix V-3 – CAD Design Early Schematic





# Appendix V-3 – CAD Design

Skylight Wells in 3D CAD



	Quick Cost Comparison										
	# of Days	# of Days Total	hours/day of daylighting	dl hours	normal hours	kW dl	kW norm	kWh dl	kWh norm	\$/kWh	Spent per year
New Design	204	365	6	872	1988	1.779	3.224	1551	6410	\$0.04	\$ 318.43
Base Case	0	365	n/a	n/a	2860	n/a	3.608	n/a	10319	\$0.04	\$ 412.76
	dl hours are x (52x5)/365										

## Appendix V-5 – Sky Data For Philadelphia

				cloud	liness (day	s/month)		
	Day	Sunrise	Sunset	clear	partly	cloudy	Days to Daylight	
Jan	21	7:18	17:06	7	8	16		15
Feb	21	6:46	17:43	7	7	14		14
Mar	21	6:02	18:14	8	8	15		16
Apr	21	6:13	19:46	7	9	14		16
May	21	5:40	20:15	6	11	14		17
Jun	21	5:32	20:33	7	11	12		18
Jul	21	5:50	20:24	7	12	12		19
Aug	21	6:18	19:48	8	11	11		19
Sep	21	6:48	18:59	10	9	11		19
Oct	21	7:18	18:12	11	9	12		20
Nov	21	6:53	16:40	7	9	14		16
Dec	21	7:19	16:39	7	8	15		15

Sunrise and sunset from <a href="http://aa.usno.navy.mil/data/docs/RS\_OneDay.html">http://aa.usno.navy.mil/data/docs/RS\_OneDay.html</a>

Cloudiness from <a href="http://www.cityratings.com">http://www.cityratings.com</a>

City	Philadelphia	
State	Pennsylvania	
Material Index	100.1	
Installation Index	122.6	
System Size	600	tons

	Number	GPM	HP	Material	Installation	Total	Basis
System Pump	1	1200	20	\$ 3,200.00	\$ 580.00	\$ 3,914.28	20 HP Pump
Chiller Pump	3	400	3	\$ 1,975.00	\$ 315.00	\$ 7,089.50	5 HP Pump
Ice Tank Pump	1	731	5	\$ 1,975.00	\$ 315.00	\$ 2,363.17	5 HP Pump
Condenser Pump	1	1800	15	\$ 2,750.00	\$ 535.00	\$ 3,408.66	15 HP Pump

	\$/ton Mat.		\$/ton Install		Ма	iterial	Inst	allation		Basis	
Cooling Tower	\$	49.00	\$	6.37	\$	29,400.00	\$	3,840.00	\$ 34,137.24	Vertical Gear Drive	

Steel Pipe											
Piping	Diameter	Length	\$/le	ngth (mat)	\$/le	ength (inst)	Material Index	Installation index	Height Index	Co	st
S/R Chiller - Roof	10.0	64.00	\$	53.50	\$	36.50	100.1	122.6	100	\$	6,291.36
CHWP-1	10.0	110.00	\$	53.50	\$	36.50	100.1	122.6	140	\$	12,782.23
CHWP-2	8.0	61.25	\$	53.50	\$	36.50	100.1	122.6	140	\$	7,117.38
CHWP-3	8.0	61.25	\$	35.00	\$	31.00	100.1	122.6	140	\$	5,404.91
CHWP-4	8.0	61.25	\$	35.00	\$	31.00	100.1	122.6	140	\$	5,404.91
CHWP-5	8.0	61.25	\$	35.00	\$	31.00	100.1	122.6	140	\$	5,404.91
CHWP-6	8.0	61.25	\$	35.00	\$	31.00	100.1	122.6	140	\$	5,404.91
CHWP-7	8.0	61.25	\$	35.00	\$	31.00	100.1	122.6	140	\$	5,404.91
CHWP-8	8.0	61.25	\$	35.00	\$	31.00	100.1	122.6	140	\$	5,404.91
CHWP-9	6.0	61.25	\$	22.00	\$	27.00	100.1	122.6	140	\$	4,187.34
CHWP-10	6.0	61.25	\$	22.00	\$	27.00	100.1	122.6	140	\$	4,187.34
CHWP-11	5.0	61.25	\$	22.00	\$	27.00	100.1	122.6	140	\$	4,187.34
CHWP-12	4.0	61.25	\$	20.00	\$	20.50	100.1	122.6	140	\$	3,381.38
CHWP-13	4.0	61.25	\$	6.70	\$	12.50	100.1	122.6	140	\$	1,724.90
CHWP-14	3.0	61.25	\$	6.70	\$	12.50	100.1	122.6	140	\$	1,724.90
S/R Chiller - CT	12.0	64.00	\$	53.50	\$	36.50	100.1	122.6	100	\$	6,291.36
										\$8	84,305.00

Cellular Glass: 0 water vapor transmission											
Piping	Diameter	Length	\$/I	ength (mat)	\$/I	ength (inst)	Material Index	Installation index	Height Index	Со	st
S/R Chiller - Roof	10.0	64.00	\$	12.35	\$	14.30	100.1	122.6	100	\$	1,913.23
CHWP-1	10.0	110.00	\$	12.35	\$	14.30	100.1	122.6	140	\$	4,059.76
CHWP-2	8.0	61.25	\$	11.95	\$	12.50	100.1	122.6	140	\$	2,046.79
CHWP-3	8.0	61.25	\$	11.95	\$	12.50	100.1	122.6	140	\$	2,046.79
CHWP-4	8.0	61.25	\$	11.95	\$	12.50	100.1	122.6	140	\$	2,046.79
CHWP-5	8.0	61.25	\$	11.95	\$	12.50	100.1	122.6	140	\$	2,046.79
CHWP-6	8.0	61.25	\$	11.95	\$	12.50	100.1	122.6	140	\$	2,046.79
CHWP-7	8.0	61.25	\$	11.95	\$	12.50	100.1	122.6	140	\$	2,046.79
CHWP-8	8.0	61.25	\$	11.95	\$	12.50	100.1	122.6	140	\$	2,046.79
CHWP-9	6.0	61.25	\$	9.25	\$	10.00	100.1	122.6	140	\$	1,618.42
CHWP-10	6.0	61.25	\$	9.25	\$	10.00	100.1	122.6	140	\$	1,618.42
CHWP-11	5.0	61.25	\$	7.85	\$	8.35	100.1	122.6	140	\$	1,359.12
CHWP-12	4.0	61.25	\$	6.50	\$	7.70	100.1	122.6	140	\$	1,208.02
CHWP-13	4.0	61.25	\$	6.50	\$	7.70	100.1	122.6	140	\$	1,208.02
CHWP-14	3.0	61.25	\$	5.80	\$	6.25	100.1	122.6	140	\$	1,012.66
S/R Chiller - CT	12.0	64.00	\$	19.60	\$	15.60	100.1	122.6	100		2,479.69

\$ 30,804.87

Ice Tank ton hours	2982
\$/ton hour	\$ 110
Ice Tank total	\$ 328,020

\$/Chiller	\$ 101,000
# of Chillers	3
Chiller Total	\$ 303,000