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A BRIEF HISTORY OF HYDRO-TEMP

Hydro-Temp was formed in 1976, incorporated in 1978, and in 1981 received a patent for a full condensing on demand hot water heat recovery unit.

Hydro-Temp Corporation was also the first geothermal manufacturer to develop a two-speed unit, and then in 1994 was the first company to develop a three-stage unit (multiple compressors). The three-stage unit was developed in response to a growing desire by customers to have a unit that could provide load matching by changing capacity and being able to adapt to a zone dampering system and eliminate the need for bypass dampers in addition to greater moisture removal.

Hydro-Temp has worked with many utility companies all over the United States. The company has been involved in research-related projects with organizations such as the Tennessee Valley Authority, The Electric Power Research Institute, and The National Rural Electric Cooperative Association as well as state wide organizations like Arkansas Electric Cooperatives, Associated Electric Cooperative in Missouri, and Western Massachusetts Electric.

As a manufacturer of earth coupled heat pumps, Hydro-Temp Corporation has dealers and distributors throughout the United States. Hydro-Temp's sister company, Air-Flo Company, is a licensed mechanical contractor in Arkansas, Missouri, Tennessee, Mississippi and Alabama.

IMPORTANT NOTE:

Hydro-Temp is constantly "custom building" new and unique units for its customers across the United States. Many of these new units are not shown in this catalog. If you have a unique application, there is a good chance we have already built a unit similar to what you need. Give us a call, and we'll be glad to discuss your application with you.

Hydro-Temp design features:



Custom designed for each application



Hydro-Temp designs and builds each unit for the specific application. Consideration is given to the operating and physical requirements for each location. All Hydro-Temp units are designed to operate efficiently with entering water temperatures between 25°F and 110°F.

Hydro-Temp offers a complete range of models, sizes and voltages for all applications, horizontal or vertical, upflow or counter flow suitable for mounting in closets, overhead spaces, outside pad mounting and rooftop locations.

Variable speed blower motor technology offers the capability to fine-tune the blower to unique local situations in ducting and/or CFM requirements



High system efficiencies

Three-stage units with mismatched compressors allow for greater flexibility in matching building heating or cooling requirements.

Thermostatic expansion valves are balanced port with an equalization bleed port to allow compressor start in unloaded condition

Optional desuperheater generates hot water for domestic use at considerable savings while improving overall system efficiency during the cooling season and some savings during the heating season.

Flat brazed plate heat exchanger technology allows greater efficiency with lower head loss than typical coaxial heat exchangers. Brazed plate heat exchangers are available in stainless steel/copper as well as extended corrosion resistant marine grade stainless steel.

The overall efficiency of units with special control technology offers unsurpassed latent cooling capacity (dehumidification)



Engineered for easy serviceability

Large removable panels allow easy access to all components with ductwork in place.

Electrical control box is mounted on hinge pins so that it can easily be swung out of the way or

even removed from the cabinet to allow greater access to other components

High and low pressure ports in refrigeration circuit

Insulated divider and separate access panels into the air handling and compressor section permits operational servicing and testing without having air bypass the air to refrigerant coil

Microprocessor board controls staging of compressors, blower speed, and hot water recovery and provides zone control for up to four zones, as well as interfacing multiple units to DDC systems. Microprocessor board also provides diagnostic capabilities to the servicing technician.



Q Quality from the ground up

Each Hydro-Temp unit is run tested in all operating modes to insure efficiency and reliability before shipping

Heavy gauge steel cabinet is finished with baked on corrosion resistant epoxy powder coating

All copper tubing is solvent cleaned and all brazing is performed in an inert nitrogen atmosphere

All joints are pressure tested to 500 psi

Noise levels are reduced to minimum by isolating the compressor/s with vibration absorbing mounts in an insulated compartment; blower and motor are isolation mounted and cabinet is insulated throughout with 1" noise absorbing insulation.

Safety controls include high and low pressure refrigerant cutout switches as well as automatic controls to offer protection against freezing

A Hydro-Temp options

Corrosion resistant heat exchanger

For open loop installations where the water supply is not PH neutral

Cleanable electrostatic air filter

Custom designed for the specific unit, an easily removed and cleaned permanent filter

Auxiliary electrical heater (internal mount)

As backup or emergency heat this can be built into most units

Desuperheater water heating

Places rejected heat into the hot water tank

Priority (full condensing water heating)

Generates hot water for domestic use by making the most efficient use of your system. In cooling season, rejected heat is placed in hot water tank, and in heating season, utilizes the ground as a thermal source for hot water. Can also operate as a water to water heat pump to generate hot water only.

Dual compressor (load matching)

Two or three speed capability designed to cope with unequal loads in multiple zones.

Oversized water and air heat exchangers

UVC Antibacterial Light

Provides healthier environment by killing airborne bacteria as it passes through the air handler. Also inhibits mold growth in the air coil and drain pan.

CO2 sensor controlled fresh air intake

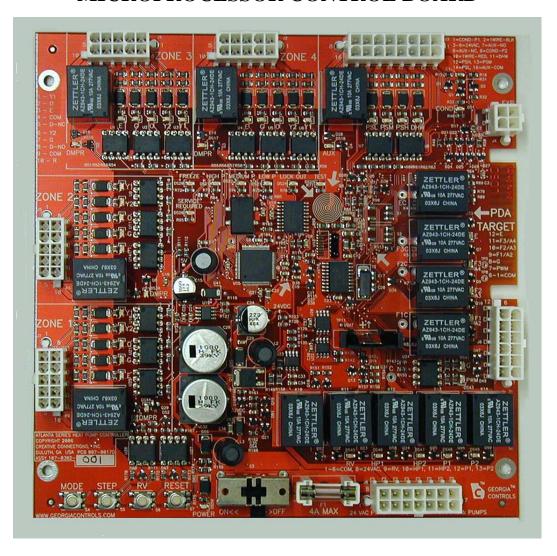
The CO2 sensor detects higher than desired levels of CO2, and opens a motorized damper to allow outside air to enter the room/building.

Enhanced dehumidification option

Removes unwanted moisture from conditioned air, helps to prevent mold growth, creates a healthier environment and greater comfort for occupants.



MICROPROCESSOR CONTROL BOARD



The microprocessor board provides all of the control functions for Hydro-Temp systems. Besides controlling the unit in the normal operations of a dual compressor system, priority hot water control and zoning, the microprocessor board provides an easy trouble shooting interface for the service technician. The service technician has the ability to take control of the unit in heat and cooling, selecting individual stages as well as over riding time delays. The onboard LED's provide a history of any faults.

Dual Compressors: A dual compressor system normally consists of both a small and a large compressor. This unique design allows the unit to provide three stages of heating and cooling: stage one uses only the small compressor, stage two uses only the large compressor, and stage three employs both compressors at the same time. Dual compressors run on the same circuit, allowing the small and large compressor to run on coils sized for both compressors -- resulting in increased efficiency. Hydro-Temp Corporation is the only manufacturer in the United States to produce a three stage ground source heat pump. The unit's capacity will vary depending upon a particular structure's needs.

Priority Hot Water: The priority hot water heating option is a patented system that works like a full condenser except that, once the room thermostat is satisfied, the unit will check the hot water tank's thermostat. If the hot water tank needs more heat, the unit will then turn on the compressor to just heat water. When the room thermostat later calls for more heating or cooling, the unit will then switch back and heat or cool. The breaker to the hot water tank is turned off as this system will provide 100% of the hot water needs up to 120 degrees F..

Zone Control: Zone control, or dampering of zones, is also accomplished by the microprocessor board. Each zone damper and thermostat hooks to the control board that will open and close the proper damper and turn the unit on and off. The control board allows one thermostat to call for heat while another calls for cooling. The heating zone will function first while the cooling zone shuts off until the heating zone has been satisfied.

HYDRO-TEMP CORPORATION

EARTH COUPLED HEAT PUMPS

P.O. BOX 566 - 3636 HWY. 67 S. - POCAHONTAS, ARKANSAS 72455 (870) 892-8343 - (800) 382-3113 - Fax: (870) 892-8323 E-MAIL ADDRESS: info@hydro-temp.com

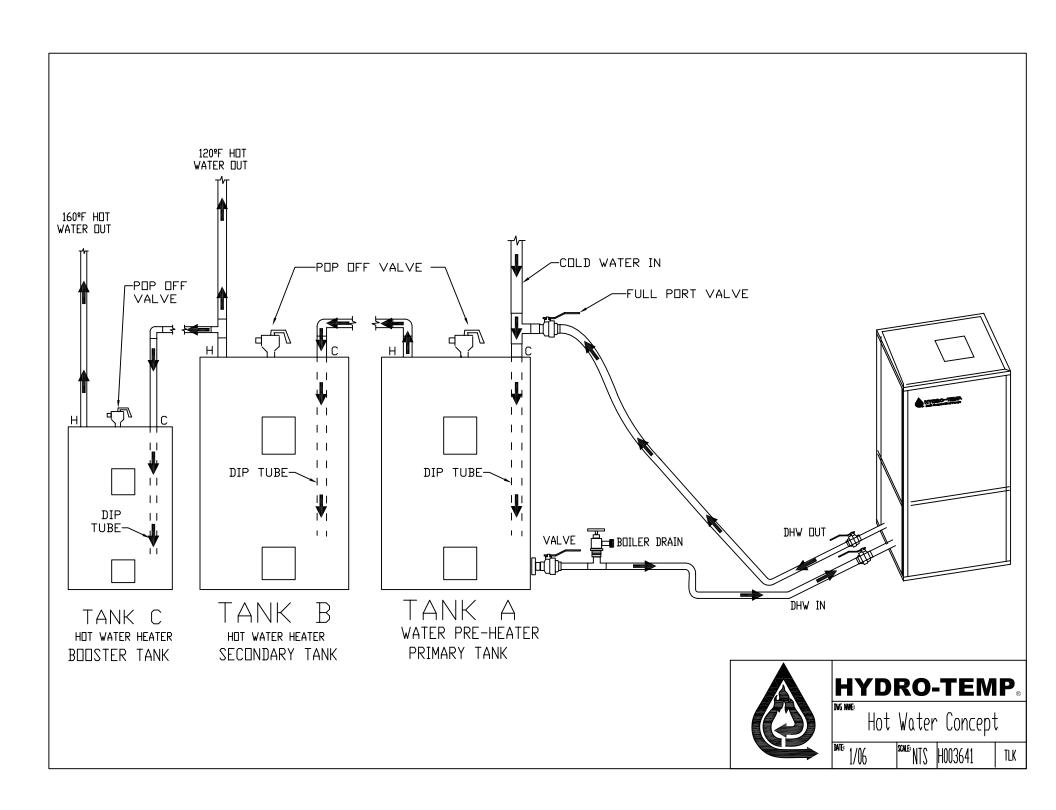
BEST METHOD OF PRODUCING HOT WATER

With the rise in natural gas prices, it has become very important to look at new and existing buildings and evaluate how the building's water is to be heated. Jails and prisons for example, spend more money on water heating than they do on heating /cooling or lighting. With this in mind, Hydro-Temp's unique patented method of heating a building's hot water can play a very important role in lowering the cost of a building's utilities.

On February 10, 1981, Hydro-Temp Corporation received patent # 4,249,390. This patent was awarded because of the unit's ability to transfer 100% of a building's unwanted heat (during the cooling cycle) into the buildings hot water tanks. During the past 20 years we learned that in many cases we could produce 100% of a building's hot water at no cost. In order for this to occur it is important that the priority water heating system be installed on a unit that does a lot of cooling, during both summer and winter. Normally a unit that provides heating and cooling for a kitchen or an internal area of the building will work best. If hot water heating is needed when no cooling is being done that's also okay. The patented priority system will turn itself on in the water-heating mode and produce hot water at approximately one fourth the normal cost of heating water.

Hydro-Temp drawing H003641 illustrates a common method of tying the unit's priority water system into a building's hot water storage system.

In the drawing, cold water is drawn from the bottom of the hot water tank (A) through the priority water heating system where it is heated. This heated water is then returned to the tanks via the cold water "in" lines. By using this method the entire tank can be heated from top to bottom, storing more hot water. Once this water is heated it is then available to feed tank (B). Unlike tank (A), tank (B) has its electric elements powered. The function of this electric element is only to replace the heat loss from tank B. The building's hot water is being totally produced by the Hydro-Temp priority system. Normally, water is heated from 115°F to 120°F with our equipment. In a kitchen application the hot water for the dishwasher may need to be boosted to 160°F. This can easily be accomplished by adding a hot water tank (Tank C) and boosting the temperature of the water from 120°F to 160°F.





ELECTRICAL SPECIFICATIONS

1/2 TON	S	INGLE	STAGE			
Electrical	Compressor RLA LRA		Blower NPA HP		Min. Circuit	Max Fuse
Characteristics	NLA	LIVA	INFA	H	Ampacity	Size
208/230-1-60	3.4	23	3	1/10	9.4	15
208/230-3-60						
265/277-1-60	3.3	18.6	3	1/10	9.2	15
460/480-3-60						

1 1/2 TON	S	INGLE	STAGE			
Electrical Characteristics	Compressor RLA LRA		Blower NPA HP		Min. Circuit	Max Fuse
208/230-1-60	7.6	45	3	1/2	Ampacity 14.6	Size 20
208/230-3-60	5.8	51	3	1/2	12.4	15
265/277-1-60	6.5	44	3	1/2	13.2	15
460/480-3-60						

2 1/2 TON	S	INGLE	STAGE			
Electrical Characteristics	Compre RLA	essor LRA	Blow NPA	er HP	Min. Circuit Ampacity	Max Fuse Size
208/230-1-60	14.7	83	3	1/2	23.5	30
208/230-3-60	11.2	75	3	1/2	19.1	30
265/277-1-60	14.3	76	3	1/2	23	30
460/480-3-60	5.3	38	1.5	1/2	10.2	15

3 1/2 TON	S	INGLE	STAGE			
Electrical	Compre	essor	Blower		Min.	Max
Characteristics	RLA	LRA	NPA	HP	Circuit Ampacity	Fuse Size
208/230-1-60	19.9	115	4	3/4	31	40
208/230-3-60	12.4	90	4	3/4	21.6	30
265/277-1-60	15.4	98	4	3/4	25.4	30
460/480-3-60	6.2	45	2	3/4	11.4	15

4 1/2 TON	S	INGLE	STAGE			
Electrical Characteristics	Compre RLA	essor LRA	Blow NPA	er HP	Min. Circuit	Max Fuse
208/230-1-60	28.9	165	4	3/4	Ampacity 42.2	Size 50
208/230-3-60	17.3	123	4	3/4	27.7	30
265/277-1-60						
460/480-3-60	8.9	67	2	3/4	15.2	20

6 TON	S	INGLE	STAGE			
Electrical	Compressor		Blower		Min.	Max
Characteristics	RLA	LRA	NPA	HP	Circuit Ampacity	Fuse Size
208/230-1-60	29	175	5	1	44.7	50
208/230-3-60	20	146	5	1	33.4	40
265/277-1-60						
460/480-3-60	13	73	2.5	1	22.2	30

1 TON	S	INGLE	STAGE			
Electrical Characteristics	Compre RLA	essor LRA	Blow NPA	er HP	Min. Circuit Ampacity	Max Fuse Size
208/230-1-60	4.8	26.3	3	1/2	11.1	15
208/230-3-60						
265/277-1-60	5.5	33	3	1/2	12	15
460/480-3-60						

2 TON	S	INGLE	STAGE			
Electrical	Compre	essor	Blower		Min.	Max
Characteristics	RLA	LRA	NPA	HP	Circuit Ampacity	Fuse Size
208/230-1-60	11.5	64	3	1/2	19.5	30
208/230-3-60	6.5	58	3	1/2	13.2	20
265/277-1-60	10.4	52	3	1/2	18.1	20
460/480-3-60	3.4	30	1.5	1/2	7.9	10

3 TON	9	INICLE	STAGE			
3 1011	3	INGLE			Min.	
Electrical	Compre	essor	Blow	Blower		_Max
Characteristics	RLA	LRA	NPA	HP	Circuit Ampacity	Fuse Size
208/230-1-60	19.9	115	3	1/2	30	40
208/230-3-60	13.4	89	3	1/2	21.9	30
265/277-1-60	14.7	83	3	1/2	23.5	30
460/480-3-60	5.9	64	1.5	1/2	11	15

4 TON	S	INGLE	STAGE			
Electrical	Compre	essor	Blower		Min.	Max
Characteristics	RLA	LRA	NPA	HP	Circuit Ampacity	Fuse Size
208/230-1-60	24.4	150	4	3/4	36.6	40
208/230-3-60	16	115	4	3/4	26.1	30
265/277-1-60	17.3	113	4	3/4	27.7	30
460/480-3-60	7.4	55	2	3/4	13.4	15

5 TON	S	INGLE	STAGE			
Electrical	Compre	essor	Blower		Min.	_Max
Characteristics	RLA	LRA	NPA	HP	Circuit Ampacity	Fuse Size
208/230-1-60	28.9	165	5	1	43.2	50
208/230-3-60	17.3	123	5	1	28.7	40
265/277-1-60	27.6	160	5	1	41.6	50
460/480-3-60	8.9	67	2.5	1	15.7	20

7 TON	S	INGLE	STAGE			
Electrical	Compre	essor	Blower		Min.	Max
Characteristics	RLA	LRA	NPA	ΗP	Circuit Ampacity	Fuse Size
208/230-1-60						
208/230-3-60	21.8	184	4.4	1.5	35.1	40
265/277-1-60						
460/480-3-60	12.1	86	2.6	1.5	21.1	30

We at Hydro-Temp are in a continuing process of research and development; therefore, specifications are subject to change without notice.



ELECTRICAL SPECIFICATIONS

3 TON		TWO:	STAGE	Ξ					3 1/2 TON	Т	HREE	STAG	E .				
Electrical	Compre		Compre			wer	Min. Circuit	Max Fuse	Electrical	,	essor 1				wer	Min. Circuit	Max Fuse
Characteristics	RLA	LRA	RLA	LRA	NPA	HP	Ampacity	Size	Characteristics	RLA	LRA	RLA	LRA	NPA	HP	Ampacity	Size
208/230-1-60	7.1	44	7.1	44	3.0	1/2	21.1	30	208/230-1-60	7.1	44	9.8	60	4.0	3/4	25.5	30
208/230-3-60	5.8	51	5.8	51	3.0	1/2	18.2	30	208/230-3-60	6.4	48	6.5	58	4.0	3/4	20.6	30
265/277-1-60	8.6	39	8.6	39	3.0	1/2	24.5	30	265/277-1-60	8.6	39	10.4	52	4.0	3/4	27.7	40
460/480-3-60									460/480-3-60								
4 TON		TWO :	STAGE	Ξ					4 TON	Т	HREE	STAG	SE.				
Electrical	Compre	essor 1	Compre			wer	Min. Circuit	Max Fuse	Electrical	Compre	essor 1	Compre			wer	Min. Circuit	Max Fuse
Characteristics	RLA	LRA	RLA	LRA	NPA	HP	Ampacity	Size	Characteristics	RLA	LRA	RLA	LRA	NPA	HP	Ampacity	Size
208/230-1-60	11.5	64	11.5	64	4.0	3/4	32	40	208/230-1-60	7.1	44	12.3	78	4.0	3/4	28.6	40
208/230-3-60	6.5	58	6.5	58	4.0	3/4	20.7	30	208/230-3-60	6.4	48	8.8	110	4.0	3/4	23.5	30
265/277-1-60	10.4	52	10.4	52	4.0	3/4	29.5	40	265/277-1-60	8.6	39	14.3	76	4.3	3/4	32.6	40
460/480-3-60	3.4	30	3.4	30	2.0	3.4	11.8	15	460/480-3-60								
4 1/2 TON	Т	HREE	STAC	SE .					5 TON		TWO	STAGE	Ξ				
Electrical	Compre	essor 1	Compre			wer	Min.	Max Fuse	Electrical	Compre		Compre	essor 2		wer	Min.	Max
Characteristics	RLA	LRA	RLA	LRA	NPA	HP	Circuit Ampacity	Size	Characteristics	RLA	LRA	RLA	LRA	NPA	HP	Circuit Ampacity	Fuse Size
208/230-1-60	11.5	64	14.7	83	4.0	3/4	36	40	208/230-1-60	14.7	8	14.7	83	5.0	1	40.2	50
208/230-3-60	6.5	58	8.8	110	4.0	3/4	23.6	30	208/230-3-60	11.2	75	11.2	75	5.0	1	32.3	40
265/277-1-60	10.4	52	14.3	76	4.0	3/4	34.4	40	265/277-1-60	14.3	76	14.3	76	5.0	1	39.3	50
460/480-3-60	3.4	30	4.5	54	2.0	3.4	13.1	15	460/480-3-60	3.4	30	3.4	30	2.5	1	15.2	20
5 TON	Т	HREE	STAC	SE					6 TON	Т	HREE	STAC	SE				
Electrical	Compre	essor 1	Compre	essor 2	Blo	wer	Min.	Max	Electrical	Compre	essor 1	Compre	essor 2	Blo	wer	Min.	Max
								Fuse									
Characteristics	RLA	LRA	RLA	LRA	NPA	HP	Circuit Ampacity	Size	Characteristics	RLA	LRA	RLA	LRA	NPA	HP	Circuit Ampacity	Fuse Size
Characteristics 208/230-1-60	11.5			LRA 64	NPA 5.0	HP 1			Characteristics 208/230-1-60	11.5	LRA 64	24.4	LRA 150	NPA 5.0	HP 1		
		LRA	RLA				Ampacity	Size								Ampacity	Size
208/230-1-60	11.5	LRA 64	RLA 19.9	64	5.0	1	Ampacity 44.8	Size 50	208/230-1-60	11.5	64	24.4	150	5.0	1	Ampacity 50.4	Size 60
208/230-1-60 208/230-3-60	11.5 6.5	LRA 64 59	19.9 10.7	64 130	5.0 5.0	1	Ampacity 44.8 28.3	50 40	208/230-1-60 208/230-3-60	11.5 11.2	64 75	24.4 12.4	150 90	5.0 5.0	1	50.4 35.1	60 40
208/230-1-60 208/230-3-60 265/277-1-60	11.5 6.5 10.4 3.4	59 52 30	RLA 19.9 10.7 14.7	64 130 83 60	5.0 5.0 5.0	1 1 1	44.8 28.3 37.2	50 40 50	208/230-1-60 208/230-3-60 265/277-1-60	11.5 11.2 10.4	64 75 52 38	24.4 12.4 17.3	150 90 113 45	5.0 5.0 5.0	1 1 1	50.4 35.1 40.4	60 40 50
208/230-1-60 208/230-3-60 265/277-1-60 460/480-3-60	11.5 6.5 10.4 3.4	59 52 30 THREE	RLA 19.9 10.7 14.7 5.9	64 130 83 60	5.0 5.0 5.0 2.5	1 1 1 1 wer	44.8 28.3 37.2 16.7	Size 50 40 50 20 Max	208/230-1-60 208/230-3-60 265/277-1-60 460/480-3-60	11.5 11.2 10.4	64 75 52 38 THRI	24.4 12.4 17.3 6.2	150 90 113 45	5.0 5.0 5.0 2.5	1 1 1 1 1 wer	Ampacity 50.4 35.1 40.4 19 Min.	50 30 Max
208/230-1-60 208/230-3-60 265/277-1-60 460/480-3-60 7 TON Electrical Characteristics	11.5 6.5 10.4 3.4 T Compre RLA	1 LRA 64 59 52 30 THREE 2 2 2 2 1 LRA	RLA 19.9 10.7 14.7 5.9 STAC Compre	64 130 83 60 6E essor 2 LRA	5.0 5.0 5.0 2.5 Blo	1 1 1	Ampacity 44.8 28.3 37.2 16.7 Min. Circuit Ampacity	Size 50 40 50 20 Max Fuse Size	208/230-1-60 208/230-3-60 265/277-1-60 460/480-3-60 8 TON Electrical Characteristics	11.5 11.2 10.4 5.3 Compre	64 75 52 38 THRE essor 1 LRA	24.4 12.4 17.3 6.2 EE ST/ Compre	150 90 113 45 AGE essor 2 LRA	5.0 5.0 5.0 2.5 Blo	1 1 1	Ampacity 50.4 35.1 40.4 19 Min. Circuit Ampacity	Size 60 40 50 30 Max Fuse Size
208/230-1-60 208/230-3-60 265/277-1-60 460/480-3-60 7 TON Electrical	11.5 6.5 10.4 3.4	59 52 30 5HREE	RLA 19.9 10.7 14.7 5.9 STAC	64 130 83 60 SE	5.0 5.0 5.0 2.5	1 1 1 1 wer	Ampacity 44.8 28.3 37.2 16.7 Min. Circuit	Size 50 40 50 20 Max Fuse	208/230-1-60 208/230-3-60 265/277-1-60 460/480-3-60 8 TON Electrical	11.5 11.2 10.4 5.3	64 75 52 38 THRE	24.4 12.4 17.3 6.2 EE STA	150 90 113 45 AGE essor 2	5.0 5.0 5.0 2.5	1 1 1 1 1 wer	Ampacity 50.4 35.1 40.4 19 Min. Circuit	50 30 Max Fuse
208/230-1-60 208/230-3-60 265/277-1-60 460/480-3-60 7 TON Electrical Characteristics 208/230-1-60 208/230-3-60	11.5 6.5 10.4 3.4 T Compre RLA 19.9	59 52 30 HREE essor 1 LRA 115 89	RLA 19.9 10.7 14.7 5.9 STAC Compre RLA 24.4	64 130 83 60 GE essor 2 LRA 150	5.0 5.0 5.0 2.5 Blo NPA 8.0 8.0	1 1 1 1 1 1 wer HP	Ampacity 44.8 28.3 37.2 16.7 Min. Circuit Ampacity 61.8 44.8	Size 50 40 50 20	208/230-1-60 208/230-3-60 265/277-1-60 460/480-3-60 8 TON Electrical Characteristics 208/230-1-60 208/230-3-60	11.5 11.2 10.4 5.3 Compre RLA 19.9	64 75 52 38 THRI essor 1 LRA 115 89	24.4 12.4 17.3 6.2 EE ST/ Compre RLA 28.9 17.3	150 90 113 45 AGE essor 2 LRA 150 123	5.0 5.0 5.0 2.5 Blo NPA 8.0 8.0	1 1 1 1 1 1 wer HP	Ampacity 50.4 35.1 40.4 19 Min. Circuit Ampacity 67.4 46.4	Size 60 40 50 30 Max Fuse Size 80 60
208/230-1-60 208/230-3-60 265/277-1-60 460/480-3-60 7 TON Electrical Characteristics 208/230-1-60 208/230-3-60 265/277-1-60	11.5 6.5 10.4 3.4 T Compre RLA 19.9 13.4 14.7	LRA 64 59 52 30 HREE ssor 1 LRA 115 89 83	RLA 19.9 10.7 14.7 5.9 STAC Compre RLA 24.4 16 17.3	64 130 83 60 GE essor 2 LRA 150 115	5.0 5.0 5.0 2.5 Blo NPA 8.0 8.0	1 1 1 1 1 1 wer HP 2@3/4	Ampacity 44.8 28.3 37.2 16.7 Min. Circuit Ampacity 61.8 44.8 47.7	Size 50 40 50 20	208/230-1-60 208/230-3-60 265/277-1-60 460/480-3-60 8 TON Electrical Characteristics 208/230-1-60 208/230-3-60 265/277-1-60	11.5 11.2 10.4 5.3 Compre RLA 19.9 13.4	64 75 52 38 THRI essor 1 LRA 115 89	24.4 12.4 17.3 6.2 EE ST/ Compre RLA 28.9 17.3 27.6	150 90 113 45 AGE essor 2 LRA 150 123	5.0 5.0 5.0 2.5 Blo NPA 8.0 8.0	1 1 1 1 1 1 wer HP 2@3/4	Ampacity 50.4 35.1 40.4 19 Min. Circuit Ampacity 67.4 46.4 60.6	Size 60 40 50 30
208/230-1-60 208/230-3-60 265/277-1-60 460/480-3-60 7 TON Electrical Characteristics 208/230-1-60 208/230-3-60	11.5 6.5 10.4 3.4 T Compre RLA 19.9	59 52 30 HREE essor 1 LRA 115 89	RLA 19.9 10.7 14.7 5.9 STAC Compre RLA 24.4	64 130 83 60 GE essor 2 LRA 150	5.0 5.0 5.0 2.5 Blo NPA 8.0 8.0	1 1 1 1 1 wer HP 2@3/4 2@3/4	Ampacity 44.8 28.3 37.2 16.7 Min. Circuit Ampacity 61.8 44.8	Size 50 40 50 20	208/230-1-60 208/230-3-60 265/277-1-60 460/480-3-60 8 TON Electrical Characteristics 208/230-1-60 208/230-3-60	11.5 11.2 10.4 5.3 Compre RLA 19.9	64 75 52 38 THRI essor 1 LRA 115 89	24.4 12.4 17.3 6.2 EE ST/ Compre RLA 28.9 17.3	150 90 113 45 AGE essor 2 LRA 150 123	5.0 5.0 5.0 2.5 Blo NPA 8.0 8.0	1 1 1 1 1 wer HP 2@3/4 2@3/4	Ampacity 50.4 35.1 40.4 19 Min. Circuit Ampacity 67.4 46.4	Size 60 40 50 30 Max Fuse Size 80 60
208/230-1-60 208/230-3-60 265/277-1-60 460/480-3-60 7 TON Electrical Characteristics 208/230-1-60 208/230-3-60 265/277-1-60	11.5 6.5 10.4 3.4 T Compre RLA 19.9 13.4 14.7 6.2	115 89 83 45	RLA 19.9 10.7 14.7 5.9 STAC Compre RLA 24.4 16 17.3	64 130 83 60 60 6E essor 2 LRA 150 115 113 55	5.0 5.0 5.0 2.5 Blo NPA 8.0 8.0	1 1 1 1 1 wer HP 2@3/4 2@3/4	Ampacity 44.8 28.3 37.2 16.7 Min. Circuit Ampacity 61.8 44.8 47.7	Size 50 40 50 20	208/230-1-60 208/230-3-60 265/277-1-60 460/480-3-60 8 TON Electrical Characteristics 208/230-1-60 208/230-3-60 265/277-1-60	11.5 11.2 10.4 5.3 Compre RLA 19.9 13.4 14.7 6.2	64 75 52 38 THRI essor 1 LRA 115 89	24.4 12.4 17.3 6.2 EE ST/ Compre RLA 28.9 17.3 27.6 8.9	150 90 113 45 AGE essor 2 LRA 150 123 160 67	5.0 5.0 5.0 2.5 Blo NPA 8.0 8.0	1 1 1 1 1 Wer HP 2@3/4 2@3/4	Ampacity 50.4 35.1 40.4 19 Min. Circuit Ampacity 67.4 46.4 60.6	Size 60 40 50 30
208/230-1-60 208/230-3-60 265/277-1-60 460/480-3-60 7 TON Electrical Characteristics 208/230-1-60 208/230-3-60 265/277-1-60 460/480-3-60 9 TON Electrical	11.5 6.5 10.4 3.4 T Compre RLA 19.9 13.4 14.7 6.2	LRA 64 59 52 30 CHREE essor 1 LRA 115 89 83 45 CHREE essor 1	RLA 19.9 10.7 14.7 5.9 STAC Compre RLA 24.4 16 17.3 7.4 STAC Compre	64 130 83 60 60 6E essor 2 LRA 150 115 113 55 6E essor 2	5.0 5.0 5.0 2.5 Blo NPA 8.0 8.0 4.0	1 1 1 1 1 wer HP 2@3/4 2@3/4 2@3/4	Ampacity 44.8 28.3 37.2 16.7 Min. Circuit Ampacity 61.8 44.8 47.7 22.9 Min.	Size 50 40 50 20	208/230-1-60 208/230-3-60 265/277-1-60 460/480-3-60 8 TON Electrical Characteristics 208/230-1-60 208/230-3-60 265/277-1-60 460/480-3-60	11.5 11.2 10.4 5.3 Compre RLA 19.9 13.4 14.7 6.2	64 75 52 38 THRI essor 1 LRA 115 89 83 45 THREE	24.4 12.4 17.3 6.2 EE ST/ Compre RLA 28.9 17.3 27.6 8.9	150 90 113 45 AGE essor 2 LRA 150 123 160 67	5.0 5.0 2.5 Blo NPA 8.0 8.0 4.0	1 1 1 1 1 1 Wer HP 2@3/4 2@3/4 2@3/4	Min. Circuit Ampacity 67.4 46.4 60.6 24.7	Size 60 40 50 30
208/230-1-60 208/230-3-60 265/277-1-60 460/480-3-60 7 TON Electrical Characteristics 208/230-1-60 208/230-3-60 265/277-1-60 460/480-3-60 9 TON Electrical Characteristics	11.5 6.5 10.4 3.4 T Compre RLA 19.9 13.4 14.7 6.2 T Compre RLA	LRA 64 59 52 30 HREE essor 1 LRA 115 89 83 45 HREE essor 1 LRA	RLA 19.9 10.7 14.7 5.9 STAC Compre RLA 24.4 16 17.3 7.4 Compre RLA	64 130 83 60 GE BESSOF 2 LRA 150 115 113 55 GE BESSOF 2 LRA	5.0 5.0 5.0 2.5 Blo NPA 8.0 8.0 4.0	1 1 1 1 1 1 HP 2@3/4 2@3/4 2@3/4 2@3/4	Ampacity 44.8 28.3 37.2 16.7 Min. Circuit Ampacity 61.8 44.8 47.7 22.9 Min. Circuit Ampacity	Size 50 40 50 20	208/230-1-60 208/230-3-60 265/277-1-60 460/480-3-60 8 TON Electrical Characteristics 208/230-1-60 208/230-3-60 265/277-1-60 460/480-3-60 10 TON Electrical Characteristics	11.5 11.2 10.4 5.3 Compre RLA 19.9 13.4 14.7 6.2	64 75 52 38 THRI essor 1 LRA 115 89 83 45 THREE	24.4 12.4 17.3 6.2 EE ST/ Compre RLA 28.9 17.3 27.6 8.9 STAC Compre RLA	150 90 113 45 AGE essor 2 LRA 150 123 160 67 BE essor 2 LRA	5.0 5.0 5.0 2.5 Blo NPA 8.0 8.0 4.0	1 1 1 1 1 1 Wer HP 2@3/4 2@3/4 2@3/4 2@3/4	Ampacity 50.4 35.1 40.4 19 Min. Circuit Ampacity 67.4 46.4 60.6 24.7 Min. Circuit Ampacity	Size 60 40 50 30 Max Fuse Size 80 60 70 30 Max Fuse Size
208/230-1-60 208/230-3-60 265/277-1-60 460/480-3-60 7 TON Electrical Characteristics 208/230-1-60 208/230-3-60 265/277-1-60 460/480-3-60 9 TON Electrical Characteristics 208/230-1-60	11.5 6.5 10.4 3.4 T Compre RLA 19.9 13.4 14.7 6.2 T Compre RLA 24.4	LRA 64 59 52 30 HREE SSOT 1 LRA 115 89 83 45 HREE SSOT 1 LRA 150	RLA 19.9 10.7 14.7 5.9 STAC Compre RLA 24.4 16 17.3 7.4 STAC Compre RLA 28.9	64 130 83 60 GE SSSOT 2 LRA 150 115 113 55 GE SSSOT 2 LRA 165	5.0 5.0 5.0 2.5 Blo NPA 8.0 4.0 Blo NPA 8.0	1 1 1 1 1 wer HP 2@3/4 2@3/4 2@3/4	Ampacity 44.8 28.3 37.2 16.7 Min. Circuit Ampacity 61.8 44.8 47.7 22.9 Min. Circuit Ampacity 74.3	Size 50 40 50 20 Max Fuse Size 70 60 30 Max Fuse Size 90	208/230-1-60 208/230-3-60 265/277-1-60 460/480-3-60 8 TON Electrical Characteristics 208/230-1-60 208/230-3-60 265/277-1-60 460/480-3-60 10 TON Electrical Characteristics 208/230-1-60	11.5 11.2 10.4 5.3 Compre RLA 19.9 13.4 14.7 6.2 T Compre RLA 24.4	64 75 52 38 THRI essor 1 LRA 115 89 83 45 THREE essor 1 LRA	24.4 12.4 17.3 6.2 EE ST/Compre RLA 28.9 17.3 27.6 8.9 STAC Compre RLA 29	150 90 113 45 AGE 25SSOT 2 LRA 150 123 160 67 GE 25SSOT 2 LRA 175	5.0 5.0 5.0 2.5 Blo NPA 8.0 8.0 4.0 Blo NPA	1 1 1 1 1 1 Wer HP 2@3/4 2@3/4 2@3/4 2@3/4	Ampacity 50.4 35.1 40.4 19 Min. Circuit Ampacity 67.4 46.4 60.6 24.7 Min. Circuit Ampacity 76.5	Size 60 40 50 30 Max Fuse Size 90 90
208/230-1-60 208/230-3-60 265/277-1-60 460/480-3-60 7 TON Electrical Characteristics 208/230-1-60 265/277-1-60 460/480-3-60 9 TON Electrical Characteristics 208/230-1-60 208/230-1-60 208/230-1-60	11.5 6.5 10.4 3.4 T Compre RLA 19.9 13.4 14.7 6.2 T Compre RLA 24.4	HREE 83 45 HREE 8550r 1 LRA 150 115	RLA 19.9 10.7 14.7 5.9 STAC Compre RLA 24.4 16 17.3 7.4 STAC Compre RLA 28.9	64 130 83 60 60 6E essor 2 LRA 150 115 113 55 6E essor 2 LRA 165 123	5.0 5.0 5.0 2.5 Blo NPA 8.0 4.0 Blo NPA 8.0	1 1 1 1 1 1 HP 2@3/4 2@3/4 2@3/4 2@3/4	Ampacity 44.8 28.3 37.2 16.7 Min. Circuit Ampacity 61.8 44.8 47.7 22.9 Min. Circuit Ampacity 74.3 51.4	Size 50 40 50 20	208/230-1-60 208/230-3-60 265/277-1-60 460/480-3-60 8 TON Electrical Characteristics 208/230-1-60 265/277-1-60 460/480-3-60 10 TON Electrical Characteristics 208/230-1-60 208/230-1-60 208/230-1-60	11.5 11.2 10.4 5.3 Compre RLA 19.9 13.4 14.7 6.2 T Compre RLA 24.4	64 75 52 38 THRI essor 1 LRA 115 89 83 45 THREE essor 1 LRA 150 115	24.4 12.4 17.3 6.2 EE ST/ Compre RLA 28.9 17.3 27.6 8.9 STAC Compre RLA 29 20	150 90 113 45 AGE essor 2 LRA 150 123 160 67 GE essor 2 LRA 175 146	5.0 5.0 2.5 Blo NPA 8.0 8.0 4.0 Blo NPA 10.0	1 1 1 1 1 1 2@3/4 2@3/4 2@3/4 2@3/4 2@3/4 2@3/4	Min. Circuit Ampacity 67.4 46.4 60.6 24.7 Min. Circuit Ampacity 76.5 56.8	Size 60 40 50 30 Size 80 60 70 30 Max Fuse Size 90 70 70
208/230-1-60 208/230-3-60 265/277-1-60 460/480-3-60 7 TON Electrical Characteristics 208/230-1-60 208/230-3-60 265/277-1-60 460/480-3-60 9 TON Electrical Characteristics 208/230-1-60	11.5 6.5 10.4 3.4 T Compre RLA 19.9 13.4 14.7 6.2 T Compre RLA 24.4	LRA 64 59 52 30 HREE SSOT 1 LRA 115 89 83 45 HREE SSOT 1 LRA 150	RLA 19.9 10.7 14.7 5.9 STAC Compre RLA 24.4 16 17.3 7.4 STAC Compre RLA 28.9	64 130 83 60 GE SSSOT 2 LRA 150 115 113 55 GE SSSOT 2 LRA 165	5.0 5.0 5.0 2.5 Blo NPA 8.0 4.0 Blo NPA 8.0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ampacity 44.8 28.3 37.2 16.7 Min. Circuit Ampacity 61.8 44.8 47.7 22.9 Min. Circuit Ampacity 74.3	Size 50 40 50 20 Max Fuse Size 70 60 30 Max Fuse Size 90	208/230-1-60 208/230-3-60 265/277-1-60 460/480-3-60 8 TON Electrical Characteristics 208/230-1-60 208/230-3-60 265/277-1-60 460/480-3-60 10 TON Electrical Characteristics 208/230-1-60	11.5 11.2 10.4 5.3 Compre RLA 19.9 13.4 14.7 6.2 T Compre RLA 24.4	64 75 52 38 THRI essor 1 LRA 115 89 83 45 THREE essor 1 LRA	24.4 12.4 17.3 6.2 EE ST/Compre RLA 28.9 17.3 27.6 8.9 STAC Compre RLA 29	150 90 113 45 AGE 25SSOT 2 LRA 150 123 160 67 GE 25SSOT 2 LRA 175	5.0 5.0 5.0 2.5 Blo NPA 8.0 8.0 4.0 Blo NPA	1 1 1 1 1 1 Wer HP 2@3/4 2@3/4 2@3/4 2@3/4	Ampacity 50.4 35.1 40.4 19 Min. Circuit Ampacity 67.4 46.4 60.6 24.7 Min. Circuit Ampacity 76.5	Size 60 40 50 30 Max Fuse Size 90 90

* TWO STAGE

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85/70

SPECIFICATION DATA SHEET

1 Ton

Entering EΑ Water **GPM** TC SC KW HR **EER** DB/WB Temp. 75/64 14.83 0.76 17.43 9.69 19.50 50 80/67 15.60 10.37 0.76 18.18 20.58 85/70 16.27 11.06 0.77 18.89 21.14 75/64 13.24 8.90 0.85 16.16 15.51 70 80/67 13.93 9.51 0.85 16.83 16.37 85/70 14.52 10.15 0.86 0.74 16.81 75/64 11.65 8.09 0.95 14.89 12.30 80/67 12.25 8.65 0.94 15.47 12.98 90 3 85/70 12.78 9.23 0.96 16.05 13.34 75/64 10.06 7.27 13.61 1.04 9.67 110 4 80/67 10.58 7.78 1.04 14.12 10.21

HEATING

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Entering Water Temp.	GPM	EA	НС	KW	HE	СОР
		65	9.63	0.77	6.98	3.65
30	3	70	9.49	0.79	6.77	3.50
		75	9.34	0.81	6.56	3.37
		65	12.45	0.90	9.37	4.06
50	3	70	12.27	0.92	9.11	3.90
		75	12.08	0.95	8.85	3.74
		65	15.27	1.03	11.76	4.36
70	3	70	15.05	1.05	11.45	4.19
		75	14.82	1.08	11.13	4.03
		65	18.09	1.15	14.16	4.61
90	3	70	17.83	1.18	13.79	4.42
		75	17.56	1.21	13.42	4.25

Condensor Water Flow	GPM	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2	4.4	4.6	4.8	5.0	5.2
1.5 Ton Brazed Plate	Press. Drop	2.69	0.87	1.06	1.25	1.43	1.62	1.80	1.98	2.17	2.35	2.54	2.86	3.18	3.51	3.83	4.16	4.48
1 Ton Coaxial	(FOH)	2.77	3.41	4.07	4.71	5.36	6.01	6.88	7.76	8.64	9.50	10.40	11.41	12.43	13.44	14.46	15.47	16.72

10.48

1 1/2 Ton

11.04

8.30

1.05

14.63

COOLING

Entering Water Temp.	GPM	EA DB/WB	TC	SC	KW	HR	EER
		75/64	23.57	15.41	1.17	27.58	20.06
50	4.5	80/67	24.79	16.48	1.17	28.78	21.18
		85/70	25.85	17.58	1.19	29.91	21.75
		75/64	20.57	13.82	1.29	24.97	15.97
70	4.5	80/67	21.63	14.78	1.28	26.01	16.86
		85/70	22.56	15.77	1.30	27.01	17.31
		75/64	17.58	12.20	1.40	22.36	12.54
90	4.5	80/67	18.48	13.05	1.40	23.25	13.24
		85/70	19.28	13.93	1.42	24.12	13.59
		75/64	14.58	10.54	1.52	19.75	9.62
110	6	80/67	15.33	11.27	1.51	20.48	10.16
		85/70	15.99	12.03	1.53	21.22	10.43

HEATING

Entering Water Temp.	GPM	EA	НС	KW	HE	COP
		65	14.25	1.19	10.17	3.50
30	4.5	70	14.04	1.22	9.86	3.36
		75	13.83	1.25	9.54	3.23
		65	18.70	1.34	14.12	4.09
50	4.5	70	18.42	1.37	13.73	3.93
		75	18.15	1.41	13.33	3.78
		65	23.14	1.48	18.07	4.57
70	4.5	70	22.80	1.52	17.60	4.39
		75	22.46	1.56	17.13	4.22
		65	27.59	1.63	22.02	4.96
90	4.5	70	27.18	1.67	21.47	4.77
		75	26.77	1.71	20.92	4.58

Condensor Water Flow	GPM	4.0	4.2	4.4	4.6	4.8	5.0	5.2	5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0	7.2
1.5 Ton Brazed Plate	Press.	2.54	2.86	3.18	3.51	3.83	4.16	4.48	4.81	5.13	5.45	5.78	6.15	6.51	6.88	7.25	7.62	8.08
1.5 Ton Coaxial	(FOH)	3.92	4.34	4.78	5.17	5.59	6.00	6.46	6.93	7.39	7.85	8.31	8.91	9.52	10.12	10.72	11.32	11.92

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2	Т	O	n

COC	DLING		2 1 On				
Entering Water Temp.	GPM	EA DB/WB	TC	SC	KW	HR	EER
		75/64	29.60	19.35	1.29	34.00	22.99
50	6	80/67	31.13	20.69	1.28	35.51	24.26
		85/70	32.47	22.08	1.30	36.91	24.92
		75/64	26.40	17.73	1.54	31.66	17.12
70	6	80/67	27.76	18.97	1.54	33.00	18.07
		85/70	28.95	20.24	1.56	34.28	18.56
		75/64	23.19	16.10	1.80	29.32	12.92
90	6	80/67	24.39	17.22	1.79	30.49	13.63
		85/70	25.44	18.38	1.82	31.64	14.00
		75/64	19.99	14.45	2.05	26.98	9.75
110	8	80/67	21.02	15.45	2.04	27.99	10.29
		85/70	21.92	16.49	2.07	29.00	10.57

HEATING

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Entering Water Temp.	GPM	EA	НС	KW	HE	СОР
		65	17.96	1.36	13.31	3.87
30	6	70	17.69	1.39	12.92	3.72
		75	17.42	1.43	12.54	3.57
		65	24.09	1.48	19.01	4.75
50	6	70	23.73	1.52	18.52	4.57
		75	23.37	1.56	18.04	4.39
		65	30.22	1.61	24.71	5.50
70	6	70	29.77	1.65	24.12	5.28
		75	29.32	1.69	23.53	5.08
		65	36.35	1.74	30.41	6.13
90	6	70	35.81	1.78	29.72	5.89
		75	35.27	1.83	29.03	5.66

Condensor Water Flow	GPM	5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6
2.5 Ton Brazed Plate	Press. Drop	2.38	2.53	2.69	2.84	3.03	3.21	3.40	3.58	3.77	3.99	4.21	4.42	4.64	4.86	5.11	5.36	5.61
2 Ton Coaxial	(FOH)	8.82	9.42	10.02	10.62	11.36	12.01	12.84	13.58	14.32	15.06	15.80	16.54	17.27	18.01	18.75	19.49	20.23

3 Ton

COC	DLING		3 1011	l			
Entering Water Temp.	GPM	EA DB/WB	TC	SC	KW	HR	EER
		75/64	39.96	26.11	1.98	46.70	20.21
50	9	80/67	42.02	27.93	1.97	48.73	21.34
		85/70	43.82	29.80	2.00	50.64	21.92
		75/64	36.11	24.26	2.35	44.14	15.35
70	9	80/67	37.98	25.95	2.34	45.97	16.21
		85/70	39.61	27.69	2.38	47.73	16.65
		75/64	32.27	22.41	2.73	41.58	11.83
90	9	80/67	33.94	23.96	2.72	43.21	12.49
		85/70	35.39	25.57	2.76	44.81	12.83
		75/64	28.43	20.55	3.10	39.02	9.16
110	12	80/67	29.90	21.98	3.09	40.44	9.67
		85/70	31.18	23.45	3.14	41.89	9.93

HEATING

Entering Water Temp.	GPM	EA	НС	KW	HE	COP
		65	25.64	2.08	18.51	3.60
30	9	70	25.26	214	17.95	3.46
		75	24.88	2.19	17.39	3.33
		65	34.63	2.33	26.68	4.36
50	9	70	34.12	2.39	25.96	4.19
		75	33.61	2.45	25.24	4.03
		65	43.62	2.57	34.84	4.98
70	9	70	42.98	2.63	33.97	4.78
		75	42.34	2.70	33.10	4.60
		65	52.62	2.81	43.01	5.49
90	9	70	51.84	2.88	41.98	5.27
		75	51.06	2.95	40.96	5.07

Condensor Water Flow	GPM	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0
Water Flow	01 101	0.0	0.0	0.0	10.0	10.0	11.0	11.0	12.0	12.0	10.0
3 Ton Brazed Plate	Press. Drop	4.44	4.93	5.52	6.10	6.72	7.33	7.94	8.54	9.24	9.93
3 Ton Coaxial	(FOH)	8.66	9.24	9.82	10.40	10.97	11.55	12.13	12.70	13.28	13.86

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3 1/2 Ton

COC	DLING		3 1/2	2 1011			
Entering Water Temp.	GPM	EA DB/WB	TC	SC	KW	HR	EER
		75/64	46.69	30.52	2.30	54.54	20.30
50	10.5	80/67	49.10	32.64	2.29	56.92	21.43
		85/70	51.21	34.83	2.33	59.15	22.01
		75/64	42.24	28.38	2.74	51.58	15.44
70	10.5	80/67	44.42	30.35	2.73	53.72	16.30
		85/70	46.33	32.39	2.77	55.77	16.74
		75/64	37.79	26.24	3.17	48.62	11.92
90	10.5	80/67	39.74	28.06	3.16	50.52	12.58
		85/70	41.45	29.94	3.21	52.40	12.92
	_	75/64	33.34	24.10	3.61	45.65	9.24
110	14	80/67	35.06	25.78	3.59	47.32	9.76
		85/70	36.57	27.50	3.65	49.02	10.02

HEATING

TILITINO											
Entering Water Temp.	GPM	EA	НС	KW	HE	СОР					
		65	32.74	2.65	23.66	3.61					
30	10.5	70	32.26	2.72	22.94	3.47					
		75	31.77	2.79	22.23	3.34					
		65	43.76	2.95	33.66	4.34					
50	10.5	70	43.12	3.03	32.75	4.17					
		75	42.47	3.11	31.85	4.01					
		65	54.78	3.25	43.65	4.93					
70	10.5	70	53.98	3.34	42.56	4.74					
		75	53.17	3.42	41.46	4.55					
		65	65.81	3.56	53.65	5.43					
90	10.5	70	64.84	3.65	52.36	5.21					
		75	63.86	3.74	51.08	5.01					

Condensor Water Flow	GPM	10.00	10.50	11.00	11.50	12.00	12.50	13.00	13.50	14.00	14.50	15.00
4 Ton Brazed Plate		3.85	4.22	4.59	5.03	5.47	5.91	6.35	6.84	7.32	7.89	8.45
3.5 Ton Coaxial	Drop (FOH)	14.09	15.32	16.56	17.80	19.04	20.27	21.51	22.75	23.98	25.22	26.46

4 Ton

COC	DLING		410	<i>)</i> 1			
Entering Water Temp.	GPM	EA DB/WB	TC	SC	KW	HR	EER
	12	75/64	53.29	35.35	2.62	62.24	20.31
50		80/67	56.04	37.81	2.61	64.95	21.44
		85/70	58.45	40.34	2.65	67.50	22.02
		75/64	48.17	32.84	3.12	58.82	15.44
70	12	80/67	50.66	35.12	3.11	61.26	16.30
		85/70	52.83	37.47	3.16	63.60	16.74
		75/64	43.06	30.32	3.62	55.39	11.91
90	12	80/67	45.28	32.43	3.60	57.57	12.57
		85/70	47.22	34.60	3.66	59.70	12.91
110		75/64	37.94	27.80	4.11	51.97	9.23
	16	80/67	39.90	29.73	4.10	53.87	9.74
		85/70	41.61	31.72	4.16	55.80	10.00

HEATING

Entering Water Temp.	GPM	EA	HC	KW	HE	СОР				
		65	34.62	2.94	24.56	3.45				
30	12	70	34.11	3.02	23.79	3.31				
		75	33.60	3.09	23.02	3.18				
		65	46.90	3.24	35.82	4.24				
50	12	12	70	46.21	3.32	34.84	4.07			
		75	45.52	3.41	33.86	3.91				
		65	59.18	3.54	47.07	4.90				
70	12	70	58.31	3.63	45.89	4.70				
		75	57.44	3.72	44.70	4.52				
		65	71.47	3.84	58.33	5.45				
90	12	12	12	12	12	70	70.41	3.94	53.96	5.24
		75	63.35	4.04	55.54	5.03				

Condensor Water Flow	GPM	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	15.5	16.0
4 Ton Brazed Plate		5.03	5.47	5.91	6.35	6.84	7.32	7.89	8.45	9.01	9.57
4 Ton Coaxial	Drop (FOH)	10.33	11.08	12.01	12.93	13.86	14.78	15.70	16.63	17.55	18.48

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5 Ton

COC	DLING		5 10	711				
Entering Water Temp.	GPM	EA DB/WB	TC	SC	KW	HR	EER	
	15	75/64	66.58	43.51	3.27	77.74	20.35	
50		80/67	70.01	46.54	3.26	81.13	21.49	
		85/70	73.02	49.66	3.31	84.31	22.07	
		75/64	60.17	40.42	3.89	73.43	15.48	
70	15	15	80/67	63.27	43.23	3.87	76.48	16.34
		85/70	65.99	46.13	3.93	79.41	16.78	
		75/64	53.76	37.32	4.50	69.13	11.94	
90	15	80/67	56.53	39.92	4.49	71.84	12.60	
		85/70	58.96	42.59	4.56	74.50	12.94	
		75/64	47.35	34.22	5.12	64.82	9.25	
110	20	80/67	49.79	36.60	5.10	67.19	9.76	
		85/70	51.93	39.06	5.18	69.60	10.03	

HEATING

Entering Water Temp.	GPM	EA	HC	KW	HE	СОР		
		65	42.72	3.47	30.87	3.61		
30	15	70	42.09	3.56	29.93	3.47		
		75	41.46	3.64	29.00	3.33		
		65	57.70	3.86	44.49	4.38		
50	15	15	15	70	56.85	3.96	43.30	4.20
		75	56.00	4.06	42.10	4.04		
		65	72.68	4.26	58.11	5.00		
70	15	70	71.61	4.37	56.66	4.80		
		75	70.54	4.48	55.21	4.61		
		65	87.67	4.66	71.73	5.51		
90	15	70	86.37	4.78	70.02	5.30		
		75	85.07	4.90	68.32	5.09		

Condensor Water Flow	GPM	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5	19.0	19.5	20.0	20.5	21.0
5 Ton Brazed Plate	Press.	4.45	4.80	5.15	5.50	5.84	6.19	6.53	6.90	7.26	7.66	8.05	8.41	8.76	9.24	9.72
5 Ton Coaxial	Drop (FOH)	7.28	7.59	7.91	8.22	8.54	8.83	9.12	9.41	9.70	9.99	10.28	10.57	10.86	11.15	11.43

6 Ton

			010	וונ			
COC	DLING						
Entering Water Temp.	GPM	EA DB/WB	TC	SC	KW	HR	EER
		75/64	81.01	52.94	4.27	95.57	18.97
50	18	80/67	85.18	56.62	4.25	99.69	20.03
		85/70	88.84	60.42	4.32	103.58	20.57
		75/64	73.38	49.29	5.03	90.53	14.60
70	18	80/67	77.16	52.72	5.01	94.24	15.41
		85/70	80.48	56.25	5.08	97.83	15.83
		75/64	65.75	45.65	5.78	85.49	11.37
90	18	80/67	69.14	48.82	5.76	88.80	12.00
		85/70	72.11	52.10	5.85	92.07	12.33
		75/64	58.13	42.01	6.54	80.44	8.89
110	24	80/67	61.12	44.93	6.52	83.35	9.38
		85/70	63.75	47.94	6.62	86.32	9.64

HEATING

Entering Water Temp.	GPM	EA	НС	KW	HE	COP
		65	51.28	4.19	39.96	3.59
30	18	70	50.52	4.29	35.83	3.45
		75	49.76	4.40	34.71	3.31
		65	69.26	4.68	53.25	4.34
50	18	70	68.24	4.80	51.82	4.16
		75	67.22	4.92	50.38	4.00
		65	87.25	5.18	69.54	4.94
70	18	70	85.96	5.31	67.80	4.74
		75	84.67	5.44	66.06	4.56
		65	105.24	5.67	85.84	5.44
90	18	70	103.68	5.82	83.78	5.22
		75	102.12	5.96	81.73	5.02

Condensor																
Water Flow	GPM	17.5	18.0	18.5	19.0	19.5	20.0	20.5	21.0	21.5	22.0	22.5	23.0	23.5	24.0	24.5
6 Ton Brazed Plate	Press.	6.88	7.25	7.67	8.08	8.50	8.91	9.34	9.77	10.21	10.65	11.09	11.52	12.05	12.58	13.12
6 Ton Coaxial	(FOH)	9.41	9.70	9.99	10.27	10.56	10.86	11.15	11.43	11.72	12.10	12.30	12.59	12.87	13.17	13.45

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7 Ton

COC	DLING		7 10	711			
Entering Water Temp.	GPM	EA DB/WB	TC	SC	KW	HR	EER
		75/64	91.82	60.01	4.82	108.25	19.06
50	21	80/67	96.55	64.18	4.80	112.92	20.12
		85/70	100.70	68.48	4.87	117.33	20.67
		75/64	84.19	56.56	5.73	103.76	14.68
70	21	80/67	88.53	60.49	5.71	108.02	15.50
		85/70	92.34	64.54	5.80	112.13	15.92
		75/64	76.57	53.16	6.65	99.26	11.51
90	21	80/67	80.51	56.86	6.63	103.12	12.15
		85/70	83.97	60.66	6.73	106.93	12.48
		75/64	68.94	49.83	7.57	94.77	9.11
110	28	80/67	72.49	53.29	7.54	98.22	9.61
		85/70	76.61	56.86	7.66	101.73	9.88

HEATING

Entering Water Temp.	GPM	EA	НС	KW	HE	СОР
		65	61.02	5.20	43.24	3.44
30	21	70	60.12	5.33	41.88	3.30
		75	59.22	5.47	40.52	3.18
		65	80.77	5.79	60.96	4.09
50	21	70	79.59	5.94	59.26	3.93
		75	78.39	6.09	57.56	3.77
		65	100.53	6.38	78.69	4.61
70	21	70	99.04	6.55	76.64	4.43
		75	97.55	6.71	74.60	4.26
		65	120.28	6.98	96.41	5.05
90	21	70	118.50	7.16	94.02	4.85
		75	116.72	7.34	91.63	4.66

Condensor Water Flow	GPM	20.5	21.0	21.5	22.0	22.5	23.0	23.5	24.0	24.5	25.0	25.5	26.0	26.5	27.0	27.5	28.0	28.5
7.5 Ton Brazed Plate	Press.	7.42	7.80	8.18	8.56	8.94	9.32	9.70	10.07	10.45	10.83	11.21	11.58	12.04	12.50	12.96	13.41	13.87
7 Ton Coaxial	Drop (FOH)	15.10	15.65	16.19	16.74	17.29	17.84	18.39	19.86	20.53	21.19	21.85	22.52	23.18	23.85	24.51	25.17	25.84

8 Ton

COC	DLING		0 10	<i>)</i>			
Entering Water Temp.	GPM	EA DB/WB	TC	SC	KW	HR	EER
		75/64	101.16	66.11	6.12	122.03	16.54
50	24	80/67	106.37	70.71	6.09	127.16	17.46
		85/70	110.95	75.45	6.19	132.06	17.93
		75/64	93.71	62.95	6.97	117.50	13.44
70	24	80/67	98.53	67.33	6.95	122.23	14.18
		85/70	102.77	71.84	7.05	126.84	14.57
		75/64	86.25	59.88	7.83	112.97	11.01
90	24	80/67	90.69	64.05	7.80	117.31	11.63
		85/70	94.59	68.34	7.92	121.62	11.94
		75/64	78.79	56.95	8.69	108.44	9.07
110	32	80/67	82.85	60.91	8.65	112.38	9.57
		85/70	86.42	64.99	8.79	116.40	9.83

HEATING

Entering Water Temp.	GPM	EA	НС	KW	HE	СОР
		65	73.06	6.38	51.25	3.36
30	21	70	71.98	6.54	49.61	3.23
		75	70.90	6.70	47.97	3.10
		65	97.46	7.24	72.69	3.94
50	24	70	96.02	7.43	70.61	3.79
		75	94.58	7.62	68.54	3.64
		65	121.86	8.11	94.13	4.40
70	24	70	120.06	8.32	91.61	4.23
		75	118.26	8.53	89.10	4.07
		65	146.26	8.98	115.57	4.78
90	24	70	144.10	9.21	112.62	4.59
		75	141.94	9.44	109.67	4.41

Condensor																	
Water Flow	GPM	24.0	24.5	25.0	25.5	26.0	26.5	27.0	27.5	28.0	28.5	29.0	29.5	30.0	31.0	32.0	33.0
10 Ton Brazed Plate	Press.	4.36	4.50	4.64	4.84	5.03	5.23	5.42	5.62	5.81	6.01	6.20	6.40	6.59	6.99	7.47	7.95
8 Ton Coaxial	(FOH)	12.24	12.71	13.17	13.63	14.09	14.55	15.02	15.48	15.94	16.40	16.86	17.33	17.79	18.71	19.64	20.56

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COC	DLING		9 10	711			
Entering Water Temp.	GPM	EA DB/WB	TC	SC	KW	HR	EER
		75/64	111.62	72.95	6.16	132.64	18.12
50	27	80/67	117.37	78.02	6.14	138.31	19.12
		85/70	122.42	83.25	6.23	143.68	19.64
		75/64	104.02	69.88	7.74	130.43	13.44
70	27	80/67	109.38	74.74	7.71	135.69	14.18
		85/70	114.08	79.74	7.83	140.80	14.57
		75/64	96.42	66.94	9.32	128.23	10.34
90	27	80/67	101.39	71.60	9.29	133.07	10.92
		85/70	105.75	76.40	9.43	137.92	11.22
		75/64	88.82	64.20	10.90	126.02	8.15
110	36	80/67	93.40	68.87	10.86	130.45	8.60
		85/70	97.42	73.27	11.03	135.04	8.83

HEATING

	11110					
Entering Water Temp.	GPM	EA	НС	KW	HE	СОР
		65	83.10	7.22	58.39	3.37
30	27	70	81.87	7.41	56.53	3.24
		75	80.64	7.60	54.67	3.11
		65	112.17	8.40	83.43	3.91
50	27	70	110.51	8.62	81.04	3.76
		75	108.85	8.83	78.64	3.61
		65	141.24	9.58	108.47	4.32
70	27	70	139.15	9.83	105.55	4.15
		75	137.06	10.07	102.62	3.99
		65	170.31	10.76	133.51	4.64
90	27	70	167.79	11.03	130.05	4.46
		75	165.27	11.31	126.59	4.28

Condensor Water Flow	GPM	26.0	26.5	27.0	27.5	28.0	28.5	29.0	29.5	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0
10 Ton Brazed Plate	Press. Drop	5.03	5.23	5.42	5.62	5.81	6.01	6.20	6.40	6.59	6.99	7.47	7.95	8.43	8.91	9.39	9.88
10 Ton Coaxial	(FOH)	7.80	7.96	8.11	8.27	8.43	8.59	8.75	8.91	9.07	9.38	9.70	9.99	10.28	10.57	10.86	11.15

10 Ton

COC	DLING		10 1	OH			
Entering Water Temp.	GPM	EA DB/WB	TC	SC	KW	HR	EER
		75/64	132.51	86.61	7.41	157.80	17.88
50	30	80/67	139.34	92.63	7.38	164.53	18.88
		85/70	145.33	98.83	7.50	170.91	19.39
		75/64	120.20	80.75	8.87	150.46	13.55
70	30	80/67	126.39	83.36	8.84	156.54	14.30
		85/70	131.83	92.15	8.97	162.44	14.69
		75/64	107.88	74.90	10.33	143.13	10.44
90	30	80/67	113.44	80.11	10.29	148.55	11.02
		85/70	118.32	85.48	10.45	153.97	11.32
		75/64	95.57	69.08	11.79	135.79	8.11
110	40	80/67	100.49	73.88	11.74	140.56	8.56
		85/70	104.81	78.83	11.93	145.50	8.79

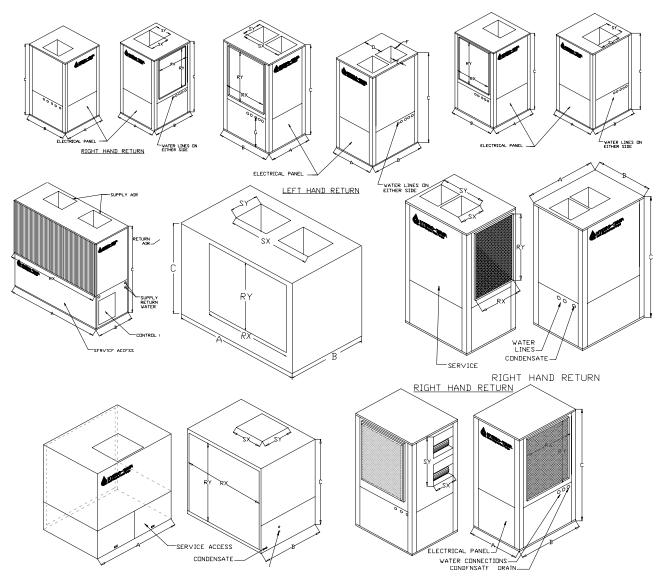
HEATING

Entering Water Temp.	GPM	EA	НС	KW	HE	COP
		65	91.81	8.19	63.80	3.29
30	30	70	90.45	8.40	61.73	3.16
		75	89.09	8.61	59.65	3.03
		65	123.98	9.37	91.95	3.88
50	30	70	122.15	9.61	89.30	3.73
		75	120.32	9.85	86.64	3.58
		65	156.16	10.54	120.10	4.34
70	30	70	153.85	10.81	116.86	4.17
		75	151.54	11.09	113.63	4.01
		65	188.33	11.72	148.24	4.71
90	30	70	185.55	12.02	144.43	4.52
		75	182.77	12.32	140.62	4.35

Condensor Water Flow	GPM	29.0	29.5	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0	40.0	41.0
10 Ton Brazed Plate	Press. Drop	6.20	6.40	6.59	6.99	7.47	7.95	8.43	8.91	9.39	9.88	10.38	10.87	11.37	11.89
10 Ton Coaxial	(FOH)	8.75	8.91	9.07	9.38	9.70	9.99	10.28	10.57	10.86	11.15	11.43	11.72	12.01	12.04

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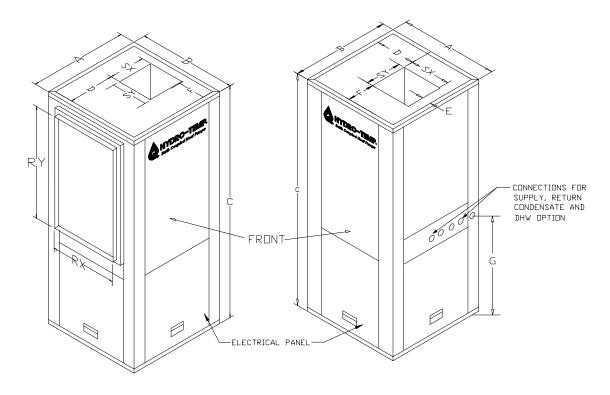


The vertical upflow unit is typically designed for a ducted system. The upflow unit is available in sizes from 1 ton through 50 tons or more. The vertical unit is normaly set up with the supply air discharging from the top of the unit and return air entering the unit on the side or rear. The flexibility of design allows the unit to leave the factory individually prepared for the specific installation. Things such as supply air location and direction, return air location and direction, water line entrance, condensate drain and technicial service access are all located in the most convenient location for installation and service.

Domestic hot water, internally mounted auxiliary electric heat, U.V. antibacterial lights and electrostatic filters are some of the options available on the vertical upflow unit.



THE STANDARD UPFLOW UNIT



The standard vertical upflow unit is designed for a ducted system. This unit is available in capacities ranging from 1 ton thru 5 tons in single and multiple stage configurations. Domestic hot water and internally mounted auxiliary electric heat are also available with this configuration. Used in homes, schools and a variety of commercial applications, the small footprint of the standard vertical upflow gives considerable latitude in the positioning of the unit. In addition, the flexibility of design allows the unit to leave the factory individually prepared for the specific installation. Such things as return air location, water line entrances, condensate drain, and electrical entrance can be located in the most convenient location for installation and service.

The standard vertical cabinet is designed for easy access for the service technician. The cabinet is constructed of heavy gauge metal and insulated with 1-inch thick insulation for noise suppression.



Standard Vertical Upflow

General Specifications

<u>Cabinet</u> - All cabinets are design built to aid in installation and serviceability.

Insulation - 1" thick multi-density sound absorbing.

<u>Drain pan</u> – Sloped, one piece welded aluminum, 0.036" thick with corrosion resistant coating.

<u>Refrigerant Circuit</u> - Sealed and contains reversing valve, distributor, thermal expansion valve, and high/low side access valves.

<u>Compressor</u> - Hermetically sealed with overload protection and mounted on rubber insulators.

Heat Exchangers - Brazed Plate, with brazed fittings.

<u>Air Coil</u> – Heaatcraft ARI certified, Seamless copper filled tube with aluminum lanced fins and aluminum end plates.

Fan - Forward curved centrifugal wheel with epoxy coated housing.

<u>Fan Motor</u> – GE electronically commutated motor <u>Electrical</u> - High pressure, and low pressure safety switches, compressor relay, 24 volt 100 VA transformer, 24 VAC control system. Electrical panel hinges and lifts out for service.

<u>Control</u> - Field mounted 24 volt digital wall thermostat.

Options and Accessories:

- · Extended Corrosion Resistant heat exchanger .
- · Cleanable electrostatic filter.
- Desuperheater Water Heating
- · Priority (Full Condensing) Water Heating
- · UVC Antibacterial Light
- · CO2 sensor controlled fresh air intake.
- · Enhanced Dehumidification option.
- · Auxiliary Electric Heater (Internal Mount)

NOTE:

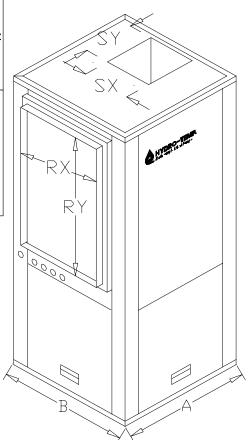
Available through 5 tons (6 ton unit may be fitted into this cabinet, depending upon selected options). Single or Multi stage.

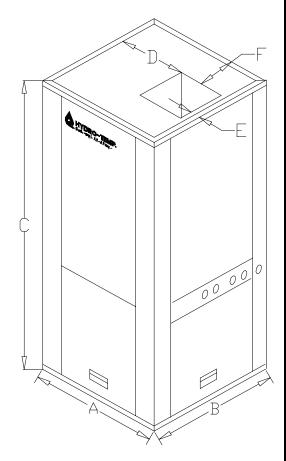
Return and Water line entry built to customer specifications

Left Hand Return shown. May also be Right Hand return or Rear Return.

Water Lines may be on either side or on the rear.

Normal service and maintenance from the front.





	Dimensions in Inches												
Α	В	C	D	Е	F			SX	SY	RX	RY	Water Lines	Cond. Line
28	28	60	12	1	6.5			15	15	24	34	1 in/ 1.25 in	3/4 in



LARGE VERTICAL UPFLOW

General Specifications

<u>Cabinet</u> - All cabinets are design built to aid in installation and serviceability.

Insulation - 1" thick multi-density sound absorbing.

<u>Drain pan</u> – Sloped, one piece welded aluminum, 0.036" thick with corrosion resistant coating.

<u>Refrigerant Circuit</u> - Sealed and contains reversing valve, distributor, thermal expansion valve, and high/low side access valves.

<u>Compressor</u> - Hermetically sealed with overload protection and mounted on rubber insulators.

Heat Exchangers - Brazed Plate, with brazed fittings.

<u>Air Coil</u> – Heaatcraft ARI certified, Seamless copper filled tube with aluminum lanced fins and aluminum end plates.

Fan - Forward curved centrifugal wheel with epoxy coated housing.

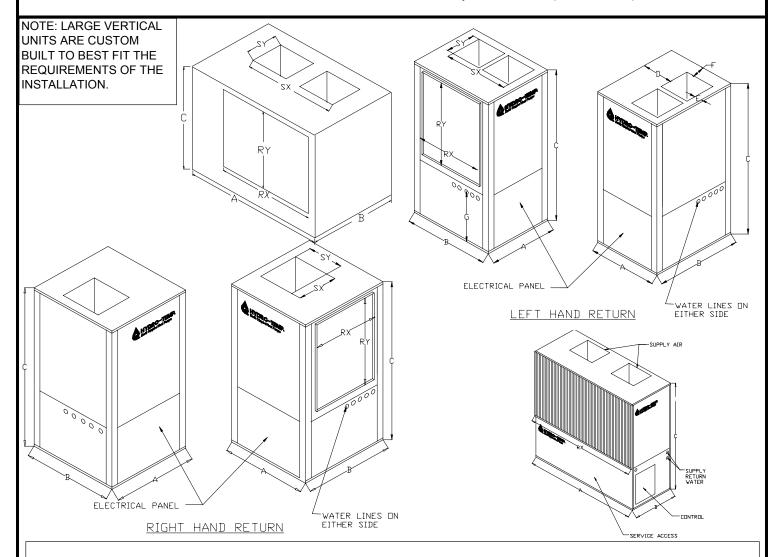
<u>Fan Motor</u> – GE electronically commutated motor (OR) VFD controlled high efficiency motor

<u>Electrical</u> - High pressure, and low pressure safety switches, compressor relay, 24 volt 100 VA transformer, 24 VAC control system. Electrical panel hinges and lifts out for service.

Control - Field mounted 24 volt digital wall thermostat.

Options and Accessories:

- · Extended Corrosion Resistant heat exchanger .
- · Cleanable electrostatic filter.
- · Desuperheater Water Heating
- · Priority (Full Condensing) Water Heating
- · UVC Antibacterial Light
- · CO2 sensor controlled fresh air intake.
- Enhanced Dehumidification option.
- · Auxiliary Electric Heater (Internal Mount)

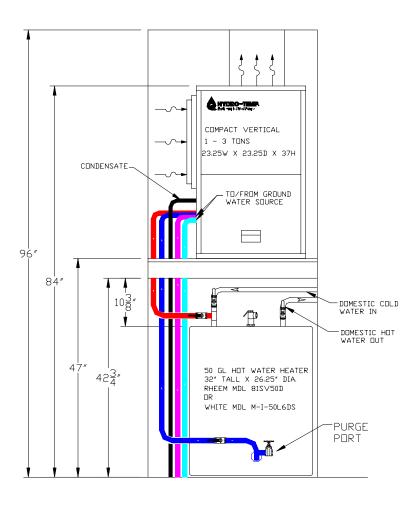


PLEASE NOTE: ALL LARGE UNITS (OVER 6 TONS) ARE CUSTOM BUILT. THE UNIT WILL BE DESIGNED TO FIT THE REQUIREMENTS OF THE INTENDED LOCATION. VARIOUS FACTORS MAY CAUSE THE CABINET SIZE TO CHANGE. I CONTACT HYDRO-TEMP FOR HELP IN DESIGNING YOUR UNIT AND DETERMINING THE EXACT DIMENSIONS.

PLEASE



THE COMPACT UPFLOW UNIT



The Compact Vertical Upflow Unit is designed for those small areas with minimal mechanical space. By placing the unit above the water heater in a common closet, plumbing runs are greatly reduced while still maintaining serviceability. The Compact Vertical Unit is available in single stage configuration only. Desuperheater or Priority (Full Condensing) water heating is available.



COMPACT VERTICAL UPFLOW

General Specifications

<u>Cabinet</u> - All cabinets are design built to aid in installation and serviceability.

Insulation - 1" thick multi-density sound absorbing.

<u>Drain pan</u> – Sloped, one piece welded aluminum, 0.036" thick with corrosion resistant coating.

<u>Refrigerant Circuit</u> - Sealed and contains reversing valve, distributor, thermal expansion valve, and high/low side access valves.

<u>Compressor</u> - Hermetically sealed with overload protection and mounted on rubber insulators.

Heat Exchangers - Brazed Plate, with brazed fittings.

<u>Air Coil</u> – Heaatcraft ARI certified, Seamless copper filled tube with aluminum lanced fins and aluminum end plates

<u>Fan</u> - Forward curved centrifugal wheel with epoxy coated housing.

<u>Fan Motor</u> – GE electronically commutated motor <u>Electrical</u> - High pressure, and low pressure safety switches, compressor relay, 24 volt 100 VA transformer, 24 VAC control system. Electrical panel hinges and lifts out for service.

Control - Field mounted 24 volt digital wall thermostat.

Options and Accessories:

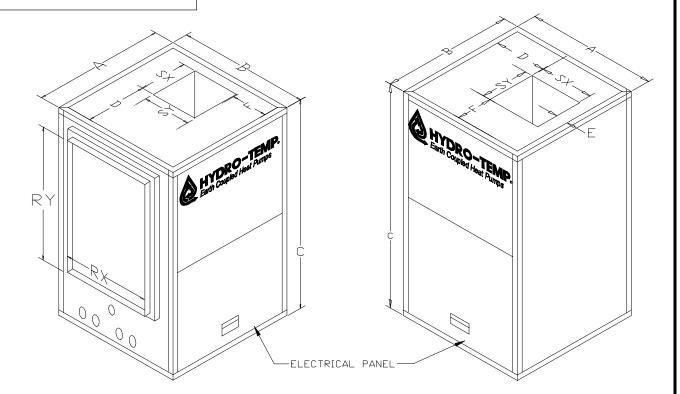
- · Extended Corrosion Resistant heat exchanger .
- · Cleanable electrostatic filter.
- · Desuperheater Water Heating
- · Priority (Full Condensing) Water Heating
- UVC Antibacterial Light
- · CO2 sensor controlled fresh air intake.
- · Enhanced Dehumidification option.

NOTE:

Available through 3 tons Single stage only.

Designed to share closet with "Low Boy" Water Heater for how water production.

Fully servicable from front



						Dim	ension	s in Inch	es				
Α	В	С	D	Е	F	G	Η	SX	SY	RX	RY	Water Lines	Cond. Line
23.25	23.25	37	7	3	3	3	2.25	11.9	10.4	18	23	1 in	3/4 in

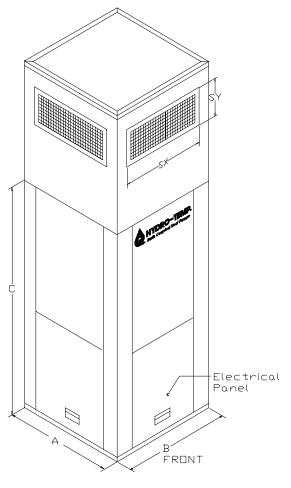


DIFFUSER TOP FOR UPFLOW UNITS

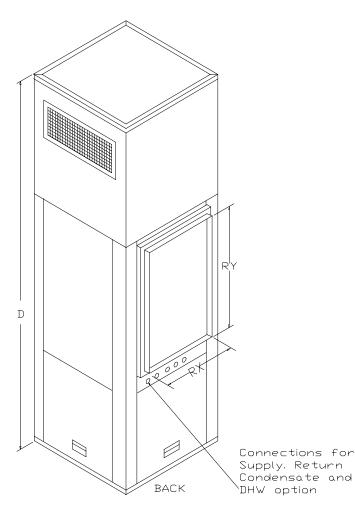
Vertical upflow units are typically designed for a ducted system. The addition of a top mounted diffuser to any upflow unit will allow the unit to be used without any ducting. This is appropriate in larger areas such as cafeterias, factories, or warehouses.

The diffuser section will be custom built to the required dimensions and performance rating of the unit.

Typical overal height of the diffuser after installation on the unit will be approximately 96 inches, but may be varied to fit the location.

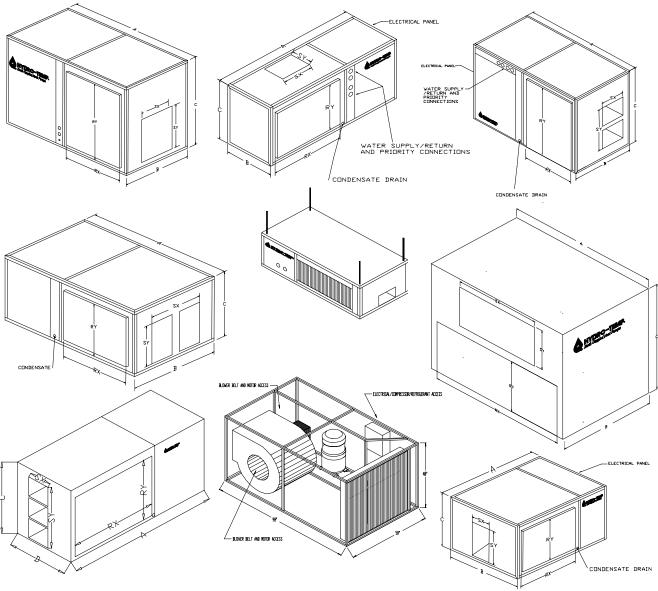


NOTE: WATER CONNECTIONS CAN BE on either side or on rear.



						Din	nension	s in Inch	es				
Α	В	С	D	Е	F			SX	SY	RX	RY	Water Lines	Cond. Line
			96										



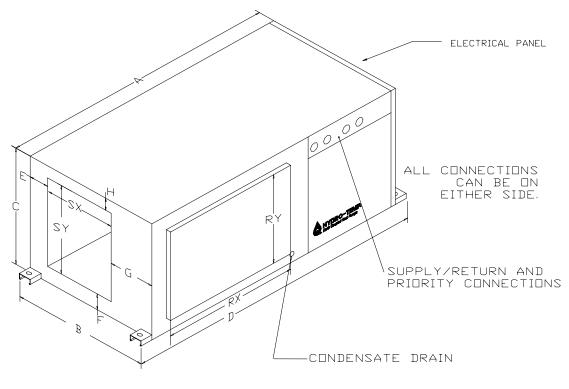


The horizontal unit is typically designed for a ducted system. The horizontal unit is available in sizes from 1 ton through 50 tons or more. The horizontal unit is normaly set up with the supply air discharging from one end of the unit and return air entering the unit on the side. The flexibility of design allows the unit to leave the factory individually prepared for the specific installation. Things such as supply air location and direction, return air location and direction, water line entrance, condensate drain and technicial service access are all located in the most convenient location for installation and service.

Domestic hot water, internally mounted auxiliary electric heat, U.V. antibacterial lights and electrostatic filters are some of the options available on the horizontal unit.



THE STANDARD HORIZONTAL UNIT



LEFT HAND RETURN

The standard horizontal unit is designed for a ducted system. This unit is available in capacities ranging from 1 ton thru 5 tons in single and multiple stage configurations. Domestic hot water and internally mounted auxiliary electric heat are also available with this configuration. Used in homes, schools and a variety of commercial applications, the small footprint of the standard horizontal unit gives considerable latitude in the positioning of the unit. In addition, the flexibility of design allows the unit to leave the factory individually prepared for the specific installation. Such things as return air location, water line entrances, condensate drain, and electrical entrance can be located in the most convenient location for installation and service.

The standard horizontal cabinet is designed for easy access for the service technician. The cabinet is constructed of heavy gauge metal and insulated with 1 inch thick insulation for noise suppression.



STANDARD HORIZONTAL

General Specifications

<u>Cabinet</u> - All cabinets are design built to aid in installation and serviceability.

Insulation - 1" thick multi-density sound absorbing.

<u>Drain pan</u> – Sloped, one piece welded aluminum, 0.036" thick with corrosion resistant coating.

<u>Refrigerant Circuit</u> - Sealed and contains reversing valve, distributor, thermal expansion valve, and high/low side access valves.

<u>Compressor</u> - Hermetically sealed with overload protection and mounted on rubber insulators.

<u>Heat Exchangers</u> – Brazed Plate, with brazed fittings.

<u>Air Coil</u> – Heaatcraft ARI certified, Seamless copper filled tube with aluminum lanced fins and aluminum end plates

<u>Fan</u> - Forward curved centrifugal wheel with epoxy coated housing.

Fan Motor - GE electronically commutated motor

<u>Electrical</u> - High pressure, and low pressure safety switches, compressor relay, 24 volt 100 VA transformer, 24 VAC control system. Electrical panel hinges and lifts out for service.

Control - Field mounted 24 volt digital wall thermostat.

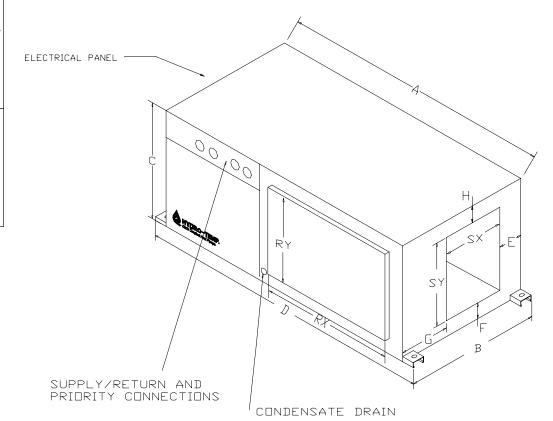
Options and Accessories:

- Extended Corrosion Resistant heat exchanger .
- · Cleanable electrostatic filter.
- · Desuperheater Water Heating
- · Priority (Full Condensing) Water Heating
- UVC Antibacterial Light
- · CO2 sensor controlled fresh air intake.
- · Enhanced Dehumidification option.
- · Auxiliary Electric Heater (Internal Mount)

NOTE:

Available through 5 tons
(6 ton unit may be fitted into
this cabinet, depending upor
selected options).
Single or Multi stage.
Return and Water line entry
built to customer
specifications

Right Hand Return shown.
May also be Left Hand
return. Water Lines may be
on either side. Normal
service and maintenance
from the end opposite the
supply.



						Dim	nension	s in Inch	es				
Α	В	С	D	Е	F	G	Н	SX	SY	RX	RY	Water Lines	Cond. Line
67	28	23.25	71	4	3.25	9.4	2.5	15	15	35	24	1 in/ 1.25 in	3/4 in



LARGE HORIZONTAL

General Specifications

<u>Cabinet</u> - All cabinets are design built to aid in installation and serviceability.

Insulation - 1" thick multi-density sound absorbing.

<u>Drain pan</u> – Sloped, one piece welded aluminum, 0.036" thick with corrosion resistant coating.

<u>Refrigerant Circuit</u> - Sealed and contains reversing valve, distributor, thermal expansion valve, and high/low side access valves.

<u>Compressor</u> - Hermetically sealed with overload protection and mounted on rubber insulators.

Heat Exchangers - Brazed Plate, with brazed fittings.

 $\underline{\text{Air Coil}}$ – Heaatcraft ARI certified, Seamless copper filled tube with aluminum lanced fins and aluminum end plates

<u>Fan</u> - Forward curved centrifugal wheel with epoxy coated housing.

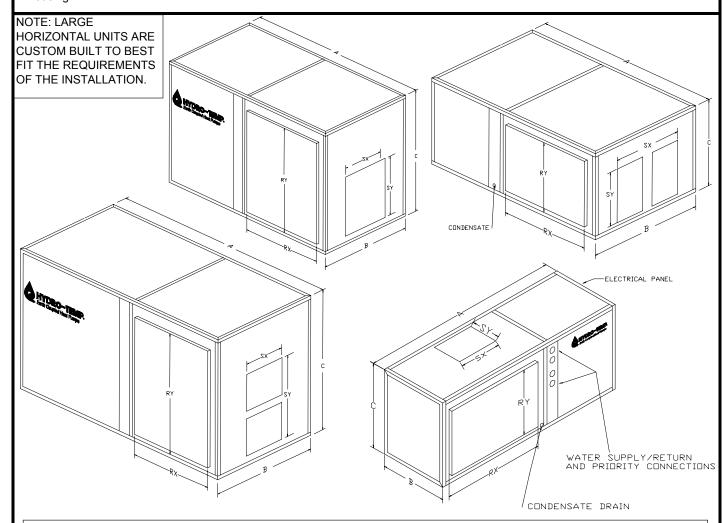
<u>Fan Motor</u> – GE electronically commutated motor (OR) VFD controlled high efficiency motor

<u>Electrical</u> - High pressure, and low pressure safety switches, compressor relay, 24 volt 100 VA transformer, 24 VAC control system. Electrical panel hinges and lifts out for service.

Control - Field mounted 24 volt digital wall thermostat.

Options and Accessories:

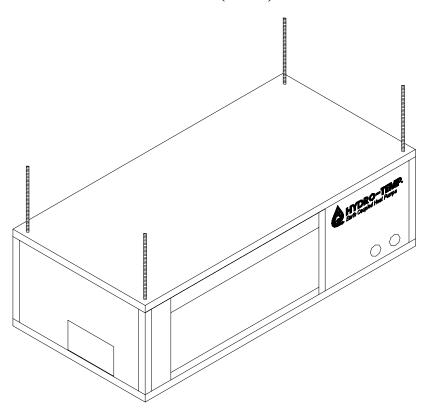
- · Extended Corrosion Resistant heat exchanger .
- · Cleanable electrostatic filter.
- · Desuperheater Water Heating
- · Priority (Full Condensing) Water Heating
- · UVC Antibacterial Light
- · CO2 sensor controlled fresh air intake.
- · Enhanced Dehumidification option.
- · Auxiliary Electric Heater (Internal Mount)



PLEASE NOTE: ALL LARGE UNITS (OVER 6 TONS) ARE CUSTOM BUILT. THE UNIT WILL BE DESIGNED TO FIT THE REQUIREMENTS OF THE INTENDED LOCATION. VARIOUS FACTORS MAY CAUSE THE CABINET SIZE TO CHANGE. PLEASE CONTACT HYDRO-TEMP FOR HELP IN DESIGNING YOUR UNIT AND DETERMINING THE EXACT DIMENSIONS.



THE ULTRA LOW PROFILE HORIZONTAL UNIT (ULP)



The Ultra Low Profile (ULP) horizontal unit is designed for a ducted system. This unit is available in capacities up to 1 1/2 tons in single stage configuration only. Domestic hot water and internally mounted auxiliary electric heat are NOT available with this configuration. Designed for the spaces between the joists in overhead situations, the small package makes for a very versatile addition in those areas where space is at a premium. Used in homes, schools and a variety of commercial applications, the small footprint of the ULP horizontal unit gives considerable latitude in the positioning of the unit. In addition, the flexibility of design allows the unit to leave the factory individually prepared for the specific installation. Such things as return air location, water line entrances, condensate drain, and electrical entrance can be located in the most convenient location for installation and service. The Ultra Low Profile horizontal cabinet is designed for easy access for the service technician. The cabinet is constructed of heavy gauge metal and insulated with 1-inch thick insulation for noise suppression



ULTRA LOW PROFILE HORIZONTAL

General Specifications

<u>Cabinet</u> - All cabinets are design built to aid in installation and serviceability.

Insulation - 1" thick multi-density sound absorbing.

<u>Drain pan</u> – Sloped, one piece welded aluminum, 0.036" thick with corrosion resistant coating.

<u>Refrigerant Circuit</u> - Sealed and contains reversing valve, distributor, thermal expansion valve, and high/low side access valves.

<u>Compressor</u> - Hermetically sealed with overload protection and mounted on rubber insulators.

Heat Exchangers – Brazed Plate, with brazed fittings.

 $\underline{\text{Air Coil}} - \text{Heaatcraft ARI certified,} Seamless copper filled tube with aluminum lanced fins and aluminum end plates$

<u>Fan</u> - Forward curved centrifugal wheel with epoxy coated housing.

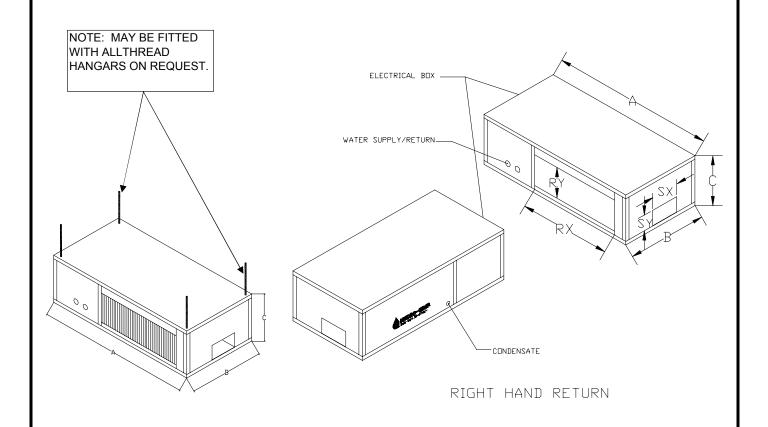
Fan Motor - High efficiency motor

<u>Electrical</u> - High pressure, and low pressure safety switches, compressor relay, 24 volt 100 VA transformer, 24 VAC control system. Electrical panel hinges and lifts out for service.

Control - Field mounted 24 volt digital wall thermostat.

Options and Accessories:

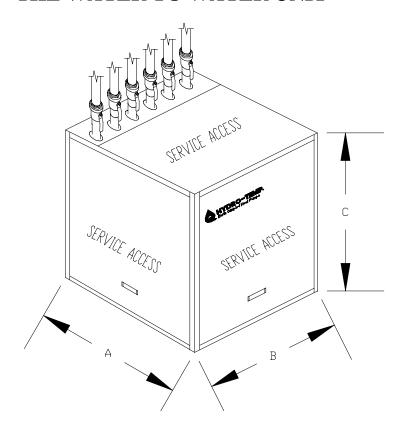
- · Extended Corrosion Resistant heat exchanger .
- · Cleanable electrostatic filter.
- · UVC Antibacterial Light
- · Enhanced Dehumidification option.



						Dim	nension	s in Inch	es				
Α	В	C	D	Е	F			SX	SY	RX	RY	Water Lines	Cond. Line
42	20.5	13						7	4	21	8	3/4 in/ 1 in	3/4 in



THE WATER TO WATER UNIT



The water to water unit is usually designed to produce hot water, but can also produce chilled water. This unit is available in capacities ranging from 2 tons and up in single stage configurations. Domestic hot water, swimming pool heating, and infloor heating are some of the typical uses. Used in homes, schools and a variety of commercial applications, the small footprint of the water to water unit gives considerable latitude in the positioning of the unit. In addition, the flexibility of design allows the unit to leave the factory individually prepared for the specific installation. The water line entrances and electrical entrance can be located in the most convenient location for installation and service.

The water to water cabinet is designed for easy access for the service technician. The cabinet is constructed of heavy gauge metal and insulated with 1-inch thick insulation for noise suppression.



WATER TO WATER

General Specifications

<u>Cabinet</u> - All cabinets are design built to aid in installation and serviceability.

<u>Insulation</u> - 1" thick multi-density sound absorbing.

<u>Refrigerant Circuit</u> - Sealed and contains reversing valve, distributor, thermal expansion valve, and high/low side access

valvee

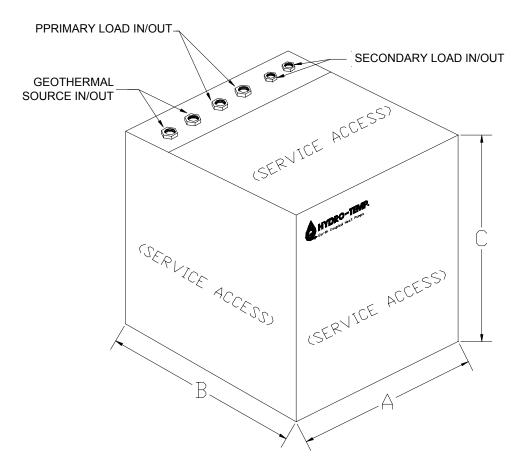
<u>Compressor</u> - Hermetically sealed with overload protection and mounted on rubber insulators.

<u>Source Side Heat Exchangers</u> – Brazed Plate, with brazed fittings.

<u>Load Side Heat Exchangers</u> – Double wall vented

<u>Electrical</u> - High pressure, and low pressure safety switches, compressor relay, 24 volt 100 VA transformer, 24 VAC control system. Electrical panel hinges and lifts out for service.

Control - Field mounted 24 volt digital thermostat.



	Dimensions in Inches											
2 to 5 ton Single Priority 6 to 8 ton Single Priority 6 to 8 ton Double Priority												
Α	В	С	Α	В	С	Α	В	С				
28 28 28 32 32 30 35 40 36												



MAKEUP AIR UNITS



HYDRO-TEMP Corporation manufactures a wide variety of Make-up air equipment. These units can be configured vertically, horizontally, indoor or rooftop. These units are available has straight cooling or as heating/cooling. This equipment incorporates fully modulating hot-gas reheat to introduce neutral air into the space during summer operation and has the ability to provide re-cooling, for neutral air during winter operation. This equipment is also available with full or partial energy recovery. Energy recovery is available using enthalpy wheels, plate type, or heat-pipe technology. Current ranges (but not limited) are from 2 ton to 170 ton. Call us with your make-up air needs.







120 Ton Rooftop Make-up Air Unit



General Specifications For Make Up-Air Units

CABINET: Cabinets will be built of quality materials, appropriate for the setting into which the unit will be installed. The cabinet design will be optimized for installation and service. Outdoor cabinets are typically salt spray rated 2" double wall construction with an extruded aluminum frame and indoor units are similar construction with 1" thick multi-density sound absorbing insulation.

DRAINPAN: One piece sloped and welded stainless steel.

REFRIGERATION CIRCUIT: Typical refrigeration circuits include a reversing valve, electronic stepper motor expansion valve, electronic stepper motor modulating hot gas reheat valves and high/low side access valves.

COMPRESSOR: Typical refrigeration circuits include parallel hermetically sealed compressors (scroll, reciprocating or screw). A parallel compressor installation refers to a system of compressors interconnected and working together. Though parallel installation has several benefits, the primary reason is reduced operating cost through greater control of capacity and power consumption. This is achieved by staggering compressor switch-on sequences that allow the parallel system to match its power with the capacity needed. The compressors are equipped with overload protection and are mounted on rubber vibration insulators.

HEAT EXCHANGERS: Stainless steel brazed plate with brazed fittings. Includes cabinet mounted 18 mesh strainer.

AIR COIL: Heatcraft ARI certified, seamless copper filled tube with aluminum lanced fins and aluminum end plates.

BLOWER: Delhi Industries centrifugal blower with forward curved galvanized wheel and enamel finish frame.

BLOWER MOTOR: Baldor motors rated for continuous operation. Blower motors controlled by Cutler-Hammer adjustable frequency drive which includes electronic motor overload protection circuits that are designed to meet the requirements of NEC Article 430-2.

CONTROLS: Automated Logic Controls, BACnet compatible custom programmable highspeed 16 bit processor with 1 mb flash memory and 1 mb of battery backed ram.

ELECTRICAL: Can be configured with built in disconnect, dual point power connection. All internal components are separately fused.

OPTIONS AND ACCESSORIES:

Corrosion resistant heat exchanger Cleanable electrostatic filters UVC Antibacterial light CO₂ Sensors



PROJECT CATALOG 02/09/06 UNIT DESIGNATION MAU-750

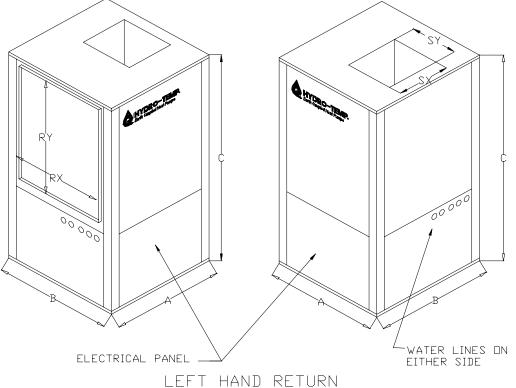
PHYSICAL INFORMATION

5.5 Ton Make Up Air W/Reheat - 2 Stage								
VUX31B06	VUX31B060CLXXK1S							
FAN WHEEL	10.5 X 10.5							
FAN MOTOR	1/2 HP							
Compressor 1	INERTIA 2.5 TONS							
Compressor 2	INERTIA 2.5 TONS							
Heat/Cool Air Coil	20 X 36 3 ROWS							
Reheat Air Coil	20 X 32 3 ROWS							
Water Flow	17.6 GPM							
Loop Pump/s	2/5 HP							
PRESSURE DROP	7.3 Ft of Hd							
Water Source HX	5 Tons AISI 316 L SS							
Refrigerant	R-22							
Filter Size	24 x 36							
Weight	650 LBS							

UNIT ELEC	UNIT ELECTRICAL DATA								
Unit VOLTAGE	FLA	MCA	MOCP	Recomm Breaker	Electrical feeds to				
60 HZ					unit				
230v/1Ø	31.8	35.0	47.7	40	1				
208V/3Ø	24.6	26.9	36.0	30	1				
460V/3Ø	13.9	15.0	19.5	20	1				

Dimensions (Inches)					
Α	48				
В	30				
С	66				
SX	14				
SY	11.5				
RX	20				
RY	36				

DIMENSIONS AND LAYOUT MAY CHANGE WITH SPECIFIC SITE REQUIREMENTS.



PERFORMANCE DATA

Cabinet	HEATING				COOLING					
Tonnage	GPM	EWT	HC	COP	GPM	EWT	HR	TC	SC	EER
5.5	17.6	85°F	29,910	4.1	17.6	85°F	88,328	70,490	32,555	13.5
					EADB	EAWB	LADB	LAWB		
					91°F	79°F	55°F	55°F		

External Static Pressure	1
Internal Static Pressure	0.3
Total Static Pressure	1.3

FYTERNAL	STATIC	PRESSURE	@Design	RPM

	0"	0.2"	0.4"	0.6"	0.8"	1.0"	1.1"		
CFM	750	750	750	750	750	750	750		



PROJECT CATALOG 02/09/06 UNIT DESIGNATION MAU-1000

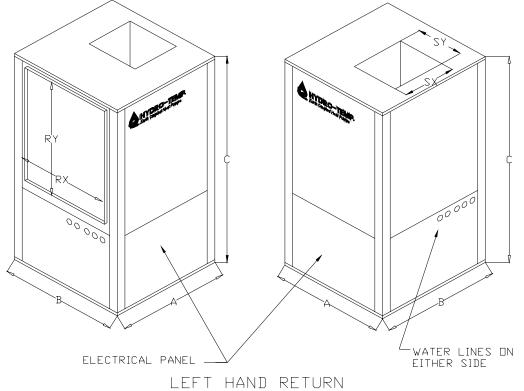
PHYSICAL INFORMATION

8 Ton Make Up Air W/Reheat - 2 Stage							
VUX31B0	VUX31B060CLXXK1S						
FAN WHEEL	10.5 X 10.5						
FAN MOTOR	3/4 HP						
Compressor 1	INERTIA 2.5 TONS						
Compressor 2	INERTIA.5 TONS						
Heat/Cool Air Coil	26 X 40 3 ROWS						
Reheat Air Coil	26 X 40 3 ROWS						
Water Flow	24.0 GPM						
Loop Pump/s	1/2 HP						
PRESSURE DROP	4.4 Ft of Hd						
Water Source HX	7.5 Tons AISI 316 L SS						
Refrigerant	R-22						
Filter Size	26 x 40						
Weight	1040 LBS						

UNIT ELEC	UNIT ELECTRICAL DATA								
Unit VOLTAGE	FLA	MCA	MOCP	Recomm Breaker	Electrical feeds to				
60 HZ					unit				
230v/1Ø	42.6	47.7	68.2	60	1				
208V/3Ø	31.5	35.3	50.3	40	1				
460V/3Ø	16.3	18.2	25.8	20	1				

Dimensions (Inches)						
Α	48					
В	34					
С	73					
SX	14					
SY	11.5					
RX	26					
RY	40					

DIMENSIONS AND LAYOUT MAY CHANGE WITH SPECIFIC SITE REQUIREMENTS.



PERFORMANCE DATA

Cabinet	HEATING				COOLING					
Tonnage	GPM	EWT	HC	COP	GPM	EWT	HR	TC	SC	EER
8	24	50°F	29,910	4.1	24	85°F	120,615	96,601	44,615	13.7
					EADB	EAWB	LADB	LAWB		
					91°F	79°F	55°F	55°F		

External Static Pressure	1
Internal Static Pressure	0.2
Total Static Pressure	1.2

EXTERNAL STATIC PRESSURE @Design RPM

	2001gh Rt III							
	0"	0.2"	0.4"	0.6"	0.8"	1.0"	1.1"	
CFM	1000	1000	1000	1000	1000	1000	1000	



PROJECT CATALOG 02/09/06 UNIT DESIGNATION MAU-1250

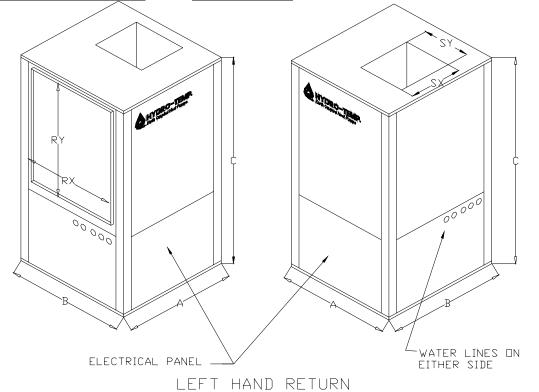
PHYSICAL INFORMATION

9 Ton Make Up Air W/Reheat - 3 Stage					
VUX31C1	102CLXXK1S				
FAN WHEEL	10.5 X 10.5				
FAN MOTOR	3/4 HP ECM				
Compressor 1	Scroll 3.5 Tons				
Compressor 2	Scroll 5 Tons				
Heat/Cool Air Coil	26 X 40 3 ROWS				
Reheat Air Coil	26 X 40 3 ROWS				
Water Flow	27.0 GPM				
Loop Pump/s	1/2 HP				
PRESSURE DROP	5.4 Ft of Hd				
Water Source HX	10 Tons AISI 316 L SS				
Refrigerant	R-22				
Filter Size	26 x 40				
Weight	1105 LBS				

UNIT ELEC	UNIT ELECTRICAL DATA								
Unit VOLTAGE	FLA	MCA	MOCP	Recomm Breaker	Electrical feeds to				
60 HZ					unit				
230v/1Ø	58.2	65.4	94.3	80	1				
208V/3Ø	37.0	41.3	58.6	50	1				
460V/3Ø	19.3	21.5	30.4	30	1				

Dimensions (Inches)				
Α	48			
В	34			
С	73			
SX	14			
SY	11.5			
RX	26			
RY	40			

DIMENSIONS AND LAYOUT MAY CHANGE WITH SPECIFIC SITE REQUIREMENTS.



PERFORMANCE DATA

Cabinet	HEATING				COOLING					
Tonnage	GPM	EWT	HC	COP	GPM	EWT	HR	TC	SC	EER
9	24	50°F	34,873	3.9	27	85°F	133,787	107,832	49,802	14.2
					EADB	EAWB	LADB	LAWB		
					91°F	79°F	55°F	55°F		

External Static Pressure	1
Internal Static Pressure	0.2
Total Static Pressure	1.2

EXTERNAL STATIC PRESSURE @Design RPM

	0"	0.2"	0.4"	0.6"	0.8"	1.0"	1.1"
CFM	1250	1250	1250	1250	1250	1250	1250



PROJECT CATALOG 02/09/06 UNIT DESIGNATION MAU-1500

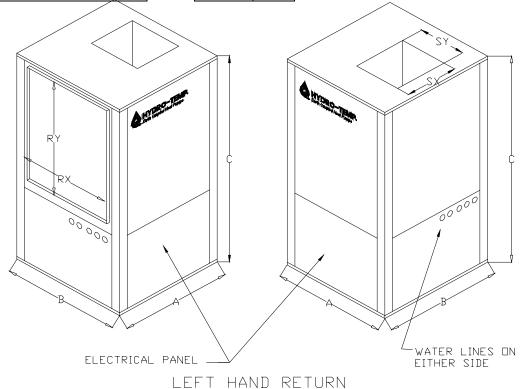
PHYSICAL INFORMATION

10 Ton Make Up Air W/Reheat - 2 Stage						
VUX31B1	20CLXXK1S					
FAN WHEEL	10.25 x 7					
FAN MOTOR	1 HP					
Compressor 1	Scroll 5 Tons					
Compressor 2	Scroll 5 Tons					
Heat/Cool Air Coil	26 X 40 3 ROWS					
Reheat Air Coil	26 X 40 3 ROWS					
Water Flow	31.0 GPM					
Loop Pump/s	3/4 HP					
PRESSURE DROP	7.0 Ft of Hd					
Water Source HX	10 Tons AISI 316 L SS					
Refrigerant	R-22					
Filter Size	26 x 40					
Weight	1250 LBS					

UNIT ELEC	UNIT ELECTRICAL DATA								
Unit				Recomm	Electrical				
VOLTAGE	FLA	MCA	MOCP	Breaker	feeds to				
60 HZ					unit				
230v/1Ø	72.9	80.1	109.0	100	1				
208V/3Ø	40.8	45.2	62.5	60	1				
460V/3Ø	22.2	24.4	33.3	30	1				

Dimensions (Inches)					
Α	50				
В	34				
С	73				
SX	10				
SY	11				
RX	26				
RY	40				

DIMENSIONS AND LAYOUT MAY CHANGE WITH SPECIFIC SITE REQUIREMENTS.



PERFORMANCE DATA

Cabinet	HEATING				COOLING					
Tonnage	GPM	EWT	HC	COP	GPM	EWT	HR	TC	SC	EER
10	31	50°F	50,900	4.2	31	85°F	152,901	122,712	56,674	13.9
					EADB	EAWB	LADB	LAWB		
					91°F	79°F	55°F	55°F		

External Static Pressure	1
Internal Static Pressure	0.4
Total Static Pressure	1.4

EXTERNAL STATIC PRESSURE @1217

	(121 <u>(11) 12 0 1) (110 1 (12000 (12 0 121)</u>								
	0.0"	0.2"	0.4"	0.6"	0.8"	1.0"	1.1"		
CFM	1900	1825	1750	1700	1600	1500	1500		



PROJECT CATALOG 02/09/06 UNIT DESIGNATION MAU-1750

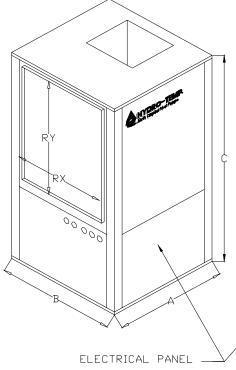
PHYSICAL INFORMATION

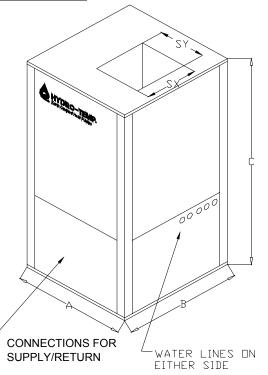
12 Ton Make Up Air W/Reheat - 3 Stage						
VUX31C14	44CLXXK1S					
FAN WHEEL	10.25 x 7					
FAN MOTOR	1 HP					
Compressor 1	Scroll 5 Tons					
Compressor 2	Scroll 7 Tons					
Heat/Cool Air Coil	32 X 19 3 ROWS (X2)					
Reheat Air Coil	29 X 19 3 ROWS (X2)					
Water Flow	37.0 GPM					
Loop Pump/s	3/4 HP					
PRESSURE DROP	7.0 Ft of Hd					
Water Source HX	12.5 Tons AISI 316 L SS					
Refrigerant	R-22					
Filter Size	32 x 38					
Weight	1560 LBS					

UNIT ELECTRICAL DATA								
Unit				Recomm	Electrical			
VOLTAGE	FLA	MCA	MOCP	Breaker	feeds to			
60 HZ					unit			
230v/1Ø	N/A	N/A	N/A	N/A				
208V/3Ø	45.3	50.8	72.6	60	1			
460V/3Ø	24.3	27.0	38.0	30	1			

Dimensions (Inches)					
Α	54				
В	40				
С	80				
SX	10				
SY	11				
RX	32				
RY	38				

DIMENSIONS AND LAYOUT MAY CHANGE WITH SPECIFIC SITE REQUIREMENTS.





LEFT HAND RETURN

PERFORMANCE DATA

Cabinet	HEATING				COOLING					
Tonnage	GPM	EWT	HC	COP	GPM	EWT	HR	TC	SC	EER
12	37	50°F	50,900	4.2	37	85°F	184,171	147,727	68,227	13.8
					EADB	EAWB	LADB	LAWB		
					91°F	79°F	55°F	55°F		

External Static Pressure	1
Internal Static Pressure	0.4
Total Static Pressure	1.4

EXTERNAL STATIC PRESSURE @1244 RPM

	0.0"	0.2"	0.4"	0.6"	0.8"	1.0"	1.1"		
CFM	2100	2025	1950	1900	1825	1750	1700		



PROJECT CATALOG 02/09/06 UNIT DESIGNATION MAU-2000

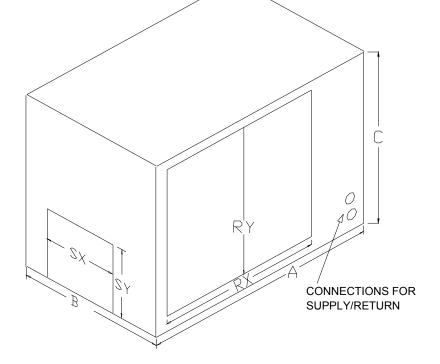
PHYSICAL INFORMATION

15 Ton Make Up Air W/Reheat - 3 Stage						
HHX31C18	BOCTXXK1S					
FAN WHEEL	11.128 X 8					
FAN MOTOR	1 1/2 HP					
Compressor 1	SCROLL 5 TONS					
Compressor 2	SCROLL 10 TONS					
Heat/Cool Air Coil	50X30 6 Rows					
Reheat Air Coil	50 x 30 2 Rows					
Water Flow	47.0 GPM					
Loop Pump/s	NONE					
PRESSURE DROP	8.46 Ft of Hd					
Water Source HX	15 Tons AISI 316 L SS					
Refrigerant	R-22					
Filter Size	24X30 (x2)					
Weight	1800 LBS					

UNIT ELECTRICAL DATA								
Unit				Recomm	Electrical			
VOLTAGE	FLA	MCA	MOCP	Breaker	feeds to			
60 HZ					unit			
230v/1Ø	N/A	N/A	N/A	N/A				
208V/3Ø	58.4	67.3	103.0	80	1			
460V/3Ø	33.2	38.4	59.1	50	1			

Dimensions	(Inches)
Α	96
В	64
O	36
SX	10.5
SY	11.5
RX	50
RY	30

DIMENSIONS AND LAYOUT MAY CHANGE WITH SPECIFIC SITE REQUIREMENTS.



PERFORMANCE DATA

Cabinet	HEATING				COOLING					
Tonnage	GPM	EWT	HC	COP	GPM	EWT	HR	TC	SC	EER
15	47	85°F	67,321	4.5	47.0 GPM	85°F	234,553	187,703	86,690	13.7
					EADB	EAWB	LADB	LAWB		
					91°F	79°F	55°F	55°F		

External Static Pressure	1.5
Internal Static Pressure	0.4
Total Static Pressure	1.9

EXTERNAL STATIC PRESSURE @1339 RPM

	1.0"	1.1"	1.2"	1.3"	1.4"	1.5"	1.6"
CFM	2,325	2,275	2,200	2,125	2,050	2,000	1,950



PROJECT CATALOG 02/09/06 UNIT DESIGNATION MAU-4000

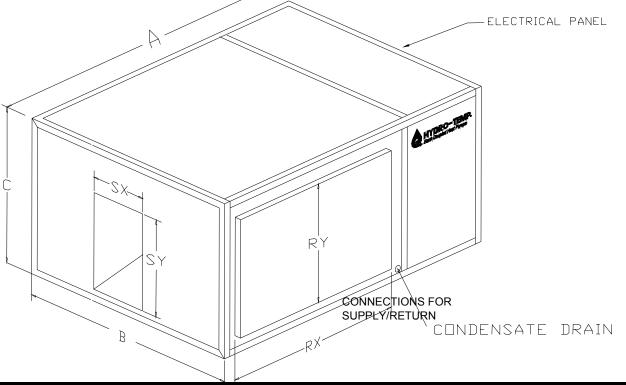
PHYSICAL INFORMATION

27 Ton Make Up Air W/Reheat - 3 Stage								
HHX31C300CTXXK1S								
FAN WHEEL	12.5 C 12.5							
FAN MOTOR	3 HP							
Compressor 1	DANFOSS 10 TONS							
Compressor 2	DANFOSS 15 TONS							
Heat/Cool Air Coil	58X30 6 Rows							
Reheat Air Coil	58X30 2 Rows							
Water Flow	82.0 GPM							
Loop Pump/s	NONE							
PRESSURE DROP	8.7 Ft of Hd							
Water Source HX	(2X) 12.5 Tons AISI 316 L SS							
Refrigerant	R-22							
Filter Size	TBD							
Weight	3000 LBS							
	·							

UNIT ELECTRICAL DATA								
Unit				Recomm	Electrical			
VOLTAGE	FLA	MCA	MOCP	Breaker	feeds to			
60 HZ					unit			
230v/1Ø	N/A	N/A	N/A	N/A				
208V/3Ø	119.7	138.5	213.5	160	1			
460V/3Ø	61.5	70.3	105.3	80	1			

Dimensions	(Inches)
Α	106
В	70
С	36
SX	16
SY	14
RX	58
RY	30

DIMENSIONS AND LAYOUT MAY CHANGE WITH SPECIFIC SITE REQUIREMENTS.



PERFORMANCE DATA

Cabinet	HEATING				COOLING					
Tonnage	GPM	EWT	HC	COP	GPM	EWT	HR	TC	SC	EER
27	82	85°F	145,200	4.4	82.0 GPM	85°F	412,785	329,600	152,224	13.5
					EADB	EAWB	LADB	LAWB		
					91°F	79°F	55°F	55°F		

External Static Pressure	1.5
Internal Static Pressure	0.5
Total Static Pressure	2.0

EXTERNAL STATIC PRESSURE @1175 RPM

	•						
	1.0"	1.1"	1.2"	1.3"	1.4"	1.5"	1.6"
CFM	4,450	4,350	4,250	4,150	4,075	4,000	3,900



PROJECT CATALOG 02/09/06 UNIT DESIGNATION MAU-6000

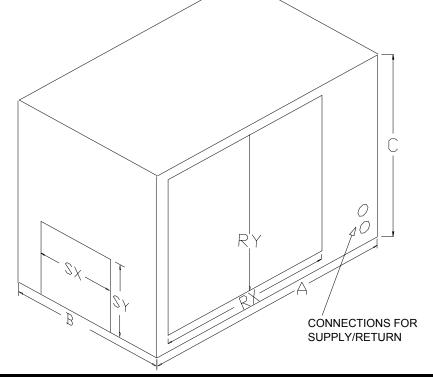
PHYSICAL INFORMATION

HHX31C540CTXXK1S	45 Ton Make Up Air W/Reheat - 3 Stage							
ΕΔΝ WHEEL 15.5 ¥ 15	HHX31C540CTXXK1S							
13.5 X 15	FAN WHEEL	15.5 X 15						
FAN MOTOR 5 HP	FAN MOTOR	5 HP						
Compressor 1 DANFOSS 15 TONS	Compressor 1	DANFOSS 15 TONS						
Compressor 2 DANFOSS 25 TONS	Compressor 2	DANFOSS 25 TONS						
Heat/Cool Air Coil 70X36 6 Rows	Heat/Cool Air Coil	70X36 6 Rows						
Reheat Air Coil 70X36 2 Rows	Reheat Air Coil	70X36 2 Rows						
Water Flow 135.0 GPM	Water Flow	135.0 GPM						
Loop Pump/s NONE	Loop Pump/s	NONE						
PRESSURE DROP 23.3 Ft of Hd	PRESSURE DROP	23.3 Ft of Hd						
Water Source HX 50 Tons AISI 316 L SS	Water Source HX	50 Tons AISI 316 L SS						
Refrigerant R-22	Refrigerant	R-22						
Filter Size TBD	Filter Size	TBD						
Weight 5400 LBS	Weight	5400 LBS						

UNIT ELECTRICAL DATA								
Unit VOLTAGE	FLA	MCA	MOCP	Recomm Breaker	Electrical feeds to			
60 HZ		11.571		Broaker	unit			
230v/1Ø	N/A	N/A	N/A	N/A				
208V/3Ø	177.1	199.1	287.0	240	1			
460V/3Ø	91.9	104.2	153.5	120	1			
	/1 1 1							

	00
Dimensions	(Inches)
Α	120
В	72
С	60
SX	19
SY	16
RX	70
RY	36

DIMENSIONS AND LAYOUT MAY CHANGE WITH SPECIFIC SITE REQUIREMENTS.



PERFORMANCE DATA

Cabinet	HEATING				COOLING					
Tonnage	GPM	EWT	HC	COP	GPM	EWT	HR	TC	SC	EER
45	135	85°F	215,400	4.3	135	85°F	674,163	538,669	248,781	13.6
					EADB	EAWB	LADB	LAWB		
					91°F	79°F	55°F	55°F		

External Static Pressure	1.5
Internal Static Pressure	0.7
Total Static Pressure	2.2

EXTERNAL STATIC PRESSURE @1100 RPM

	1.0"	1.1"	1.2"	1.3"	1.4"	1.5"	1.6"
CFM	6,550	6,450	6,350	6,275	6,150	6,000	5,900



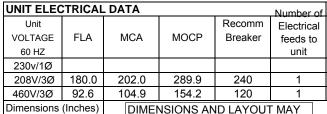
PROJECT CATALOG 02/09/06 UNIT DESIGNATION MAU-6900

SY

19

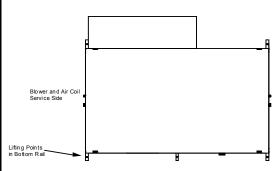
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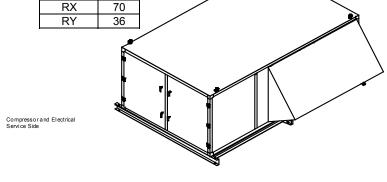
50 Ton Make Up Air W/Reheat - 3 Stage						
HHX41C	600CTXXK1S					
FAN WHEEL	18 X 18					
FAN MOTOR	5 HP					
Compressor 1	DANFOSS 20 TONS					
Compressor 2	DANFOSS 25 TONS					
Heat/Cool Air Coil	70 X 36 6 Rows					
Reheat Air Coil	70 X 36 2 Rows					
Water Flow	153.0 GPM					
Loop Pump/s	NONE					
PRESSURE DROP	18.5 Ft of Hd					
Water Source HX	50 Tons AISI 316 L SS					
Refrigerant	R-22					
Filter Size	25X20 (x3)					
Weight	6000 LBS					

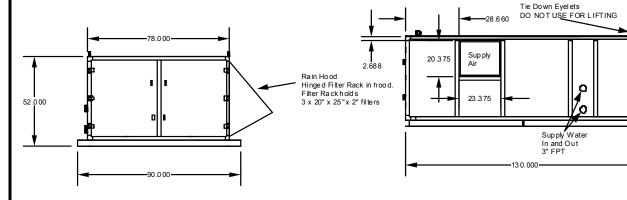


A 130
B 78
C 52
SX 24

| DIMENSIONS AND LATOUT MA







PERFORMANCE DATA

Cabinet	HEATING				COOLING					
Tonnage	GPM	EWT	HC	COP	GPM	EWT	HR	TC	SC	EER
50	153	85°F	294,772	4.2	153	85°F	764,589	610,476	281,945	13.5
			-		EADB	EAWB	LADB	LAWB		
					01°E	70°E	55°E	55°E		

External Static Pressure	1.5
Internal Static Pressure	0.7
Total Static Pressure	2.2

EXTERNAL STATIC PRESSURE @824 RPM

	1.0"	1.1"	1.2"	1.3"	1.4"	1.5"	1.6"
CFM	9,400	8,450	7,900	7,600	7,300	6,930	6,700



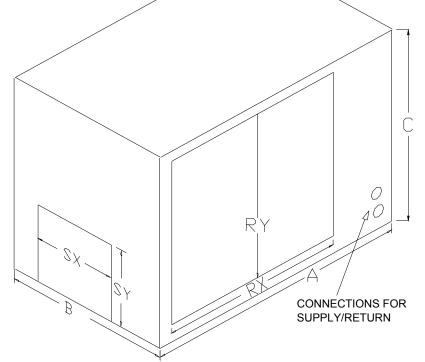
PROJECT CATALOG 02/09/06 UNIT DESIGNATION MAU-8000

PHYSICAL INFORMATION

55 Ton Make U	lp Air W/Reheat - 3 Stage
HHX3	1C660CTXXK1S
FAN WHEEL	18 X 18
FAN MOTOR	5 HP
Compressor 1	DANFOSS 13 TONS
Compressor 2	DANFOSS 13 TONS
Compressor 3	DANFOSS 25 TONS
Heat/Cool Air Coil	58 X 30 (X2) 6 Rows
Reheat Air Coil	58 X 30 (X2) 2 Rows
Water Flow	137.5 GPM
Loop Pump/s	NONE
PRESSURE DROP	23.3 Ft of Hd
Water Source HX	(3X) 20 Tons AISI 316 L SS
Refrigerant	R-22
Filter Size	TBD
Weight	5400 LBS

UNIT ELECTRICAL DATA									
Unit				Recomm	Electrical				
VOLTAGE	FLA	MCA	MOCP	Breaker	feeds to				
60 HZ					unit				
230v/1Ø									
208V/3Ø	193.5	215.5	303.4	260	1				
460V/3Ø	102.7	115.0	164.3	130	1				

DIMENSIONS AND LAYOUT MAY CHANGE WITH SPECIFIC SITE REQUIREMENTS.



PERFORMANCE DATA

Cabinet	HEATING				COOLING					
Tonnage	GPM	EWT	HC	COP	GPM	EWT	HR	TC	SC	EER
55	137.5	85°F	145,200	4.4	137.5	85°F	412,785	329,600	152,224	13.5
			-		EADB	EAWB	LADB	LAWB	-	
					01°F	79°F	55°F	55°F		

External Static Pressure	1.5
Internal Static Pressure	0.5
Total Static Pressure	2.0

EXTERNAL STATIC PRESSURE @791 RPM

	1.0"	1.1"	1.2"	1.3"	1.4"	1.5"	1.6"
CFM	8,850	8,600	8,425	8,275	8,175	8,000	7,800



PROJECT CATALOG 02/09/06 UNIT DESIGNATION MAU-6000

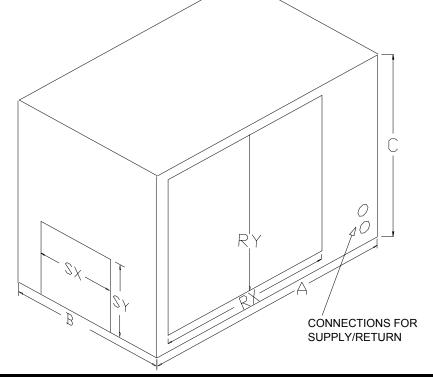
PHYSICAL INFORMATION

HHX31C540CTXXK1S	45 Ton Make Up	Air W/Reheat - 3 Stage
ΕΔΝ WHEEL 15.5 ¥ 15	HHX310	C540CTXXK1S
13.5 X 15	FAN WHEEL	15.5 X 15
FAN MOTOR 5 HP	FAN MOTOR	5 HP
Compressor 1 DANFOSS 15 TONS	Compressor 1	DANFOSS 15 TONS
Compressor 2 DANFOSS 25 TONS	Compressor 2	DANFOSS 25 TONS
Heat/Cool Air Coil 70X36 6 Rows	Heat/Cool Air Coil	70X36 6 Rows
Reheat Air Coil 70X36 2 Rows	Reheat Air Coil	70X36 2 Rows
Water Flow 135.0 GPM	Water Flow	135.0 GPM
Loop Pump/s NONE	Loop Pump/s	NONE
PRESSURE DROP 23.3 Ft of Hd	PRESSURE DROP	23.3 Ft of Hd
Water Source HX 50 Tons AISI 316 L SS	Water Source HX	50 Tons AISI 316 L SS
Refrigerant R-22	Refrigerant	R-22
Filter Size TBD	Filter Size	TBD
Weight 5400 LBS	Weight	5400 LBS

UNIT ELECTRICAL DATA								
	Unit VOLTAGE	FLA	MCA	MOCP	Recomm Breaker	Electrical feeds to		
	60 HZ		11.571		Broaker	unit		
	230v/1Ø	N/A	N/A	N/A	N/A			
	208V/3Ø	177.1	199.1	287.0	240	1		
	460V/3Ø	91.9	104.2	153.5	120	1		
		/1 1 1						

	00
Dimensions	(Inches)
Α	120
В	72
С	60
SX	19
SY	16
RX	70
RY	36

DIMENSIONS AND LAYOUT MAY CHANGE WITH SPECIFIC SITE REQUIREMENTS.



PERFORMANCE DATA

Cabinet	HEATING				COOLING					
Tonnage	GPM	EWT	HC	COP	GPM	EWT	HR	TC	SC	EER
45	135	85°F	215,400	4.3	135	85°F	674,163	538,669	248,781	13.6
					EADB	EAWB	LADB	LAWB		
					91°F	79°F	55°F	55°F		

External Static Pressure	1.5
Internal Static Pressure	0.7
Total Static Pressure	2.2

EXTERNAL STATIC PRESSURE @1100 RPM

	1.0"	1.1"	1.2"	1.3"	1.4"	1.5"	1.6"
CFM	6,550	6,450	6,350	6,275	6,150	6,000	5,900



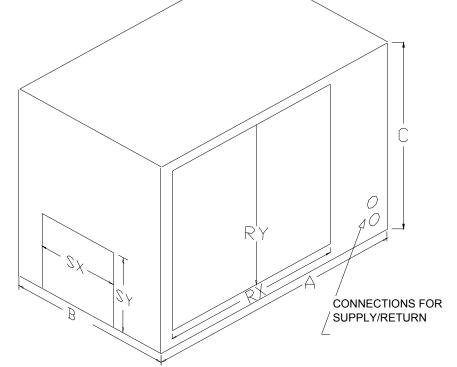
PROJECT CATALOG 02/09/06 UNIT DESIGNATION MAU-10,000

PHYSICAL INFORMATION

70 Ton Make U	p Air W/Reheat - 3 Stage
HHX31	C840CTXXK1S
FAN WHEEL	22x22
FAN MOTOR	7.5 HP
Compressor 1	DANFOSS 15 TONS
Compressor 2	DANFOSS 15 TONS
Compressor 3	DANFOSS 15 TONS
Compressor 4	DANFOSS 25 TONS
Heat/Cool Air Coil	63 X 30 (X2) 6 Rows
Reheat Air Coil	60 X 30 (X2) 2 Rows
Water Flow	214.0 GPM
Loop Pump/s	NONE
PRESSURE DROP	5.1 Ft of Hd
Water Source HX	(4X) 20 Tons AISI 316 L SS
Refrigerant	R-22
Filter Size	TBD
Weight	7070 LBS

UNIT ELEC	UNIT ELECTRICAL DATA										
Unit				Recomm	Electrical						
VOLTAGE	FLA	MCA	MOCP	Breaker	feeds to						
60 HZ					unit						
230v/1Ø					1						
208V/3Ø	334.9	356.9	444.8	420	1						
460V/3Ø	152.2	161.1	196.8	190	1						

DIMENSIONS AND LAYOUT MAY CHANGE WITH SPECIFIC SITE REQUIREMENTS.



PERFORMANCE DATA

Cabinet	HEATING				COOLING					
Tonnage	GPM	EWT	HC	COP	GPM	EWT	HR	TC	SC	EER
70	214	85°F	215,400	4.3	214	85°F	1,074,887	857,007	395,804	13.4
			-		EADB	EAWB	LADB	LAWB	-	
					Q1°F	70°F	55°F	55°F		

External Static Pressure	1.5
Internal Static Pressure	0.7
Total Static Pressure	2.2

EXTERNAL STATIC PRESSURE @692 RPM

	1.0"	1.1"	1.2"	1.3"	1.4"	1.5"	1.6"
CFM	11,550	11,250	10,950	10,650	10,400	10,000	9,675



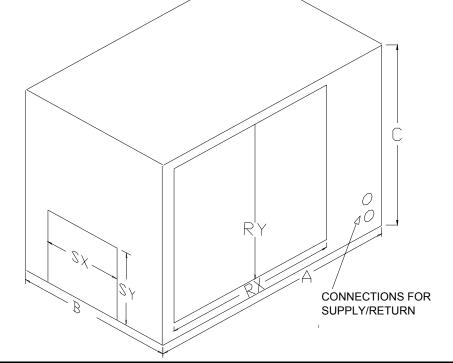
PROJECT CATALOG 02/09/06 UNIT DESIGNATION MAU-12,000

PHYSICAL INFORMATION

Air W/Reheat - 3 Stage
C1080CTXXK1S
22x22
7.5 HP
DANFOSS 20 TONS
70 X 36 (X2) 6 Rows
70 X 36 (X2) 2 Rows
268.0 GPM
NONE
23.1 Ft of Hd
(2X) 50 Tons AISI 316 L SS
R-22
TBD
7920 LBS

UNIT ELEC	UNIT ELECTRICAL DATA										
Unit				Recomm	Electrical						
VOLTAGE	FLA	MCA	MOCP	Breaker	feeds to						
60 HZ					unit						
230v/1Ø					1						
208V/3Ø	323.1	342.6	420.5	420	1						
460V/3Ø	154.3	163.2	198.9	200	1						

DIMENSIONS AND LAYOUT MAY CHANGE WITH SPECIFIC SITE REQUIREMENTS.



PERFORMANCE DATA

Cabinet	HEATING				COOLING					
Tonnage	GPM	EWT	HC	COP	GPM	EWT	HR	TC	SC	EER
90	268	85°F	294,772	4.2	268	85°F	1,346,166	1,072,428	495,295	13.4
			-		EADB	EAWB	LADB	LAWB		
					91°F	79°F	55°F	55°F		

External Static Pressure	1.5
Internal Static Pressure	0.7
Total Static Pressure	2.2

EXTERNAL STATIC PRESSURE @692 RPM

	1.0"	1.1"	1.2"	1.3"	1.4"	1.5"	1.6"
CFM	13,300	13,050	12,800	12,550	12,275	12,000	11,750



PROJECT CATALOG 02/09/06 UNIT DESIGNATION MAU-14,000

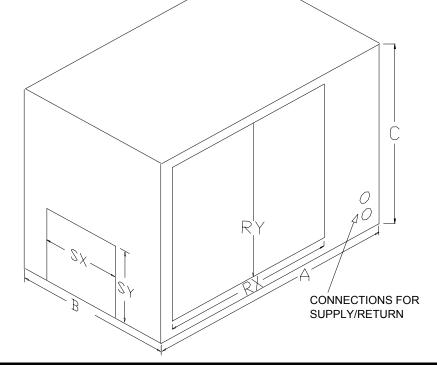
PHYSICAL INFORMATION

100 Ton Make Up Air W/Reheat - 3 Stage						
HHX41	C1200CTXXK1S					
FAN WHEEL	22x22					
FAN MOTOR	10 HP					
Compressor 1	DANFOSS 25 TONS					
Compressor 2	DANFOSS 20 TONS					
Compressor 3	DANFOSS 25 TONS					
Compressor 4	DANFOSS 20 TONS					
Heat/Cool Air Coil	70 X 36 (X2) 6 Rows					
Reheat Air Coil	70 X 36 (X2) 2 Rows					
Water Flow	305.0 GPM					
Loop Pump/s	NONE					
PRESSURE DROP	28.2 Ft of Hd					
Water Source HX	(2X) 50 Tons AISI 316 L SS					
Refrigerant	R-22					
Filter Size	TBD					
Weight	8100 LBS					

UNIT ELEC	UNIT ELECTRICAL DATA								
Unit				Recomm	Electrical				
VOLTAGE	FLA	MCA	MOCP	Breaker	feeds to				
60 HZ					unit				
230v/1Ø					1				
208V/3Ø	384.6	406.6	494.5	480	1				
460V/3Ø	198.6	210.9	260.2	260	1				

Dimensions	(Inches)
Α	120
В	88
C	80
SX	28
SY	28
RX	70
RY	72

DIMENSIONS AND LAYOUT MAY CHANGE WITH SPECIFIC SITE REQUIREMENTS.



PERFORMANCE DATA

Cabinet	HEATING				COOLING					
Tonnage	GPM	EWT	HC	COP	GPM	EWT	HR	TC	SC	EER
100	305	85°F	376,519	4.3	305	85°F	1,529,178	1,220,952	563,890	13.5
					EADB	EAWB	LADB	LAWB	•	
					Q1°F	79°F	55°F	55°F		

External Static Pressure	1.5
Internal Static Pressure	0.7
Total Static Pressure	2.2

EXTERNAL STATIC PRESSURE @722 RPM

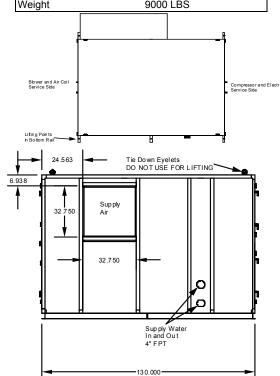
	1.0"	1.1"	1.2"	1.3"	1.4"	1.5"	1.6"
CFM	15,150	14,875	14,700	14,450	14,250	14,000	13,750



PROJECT CATALOG 02/09/06 UNIT DESIGNATION MAU-17,100

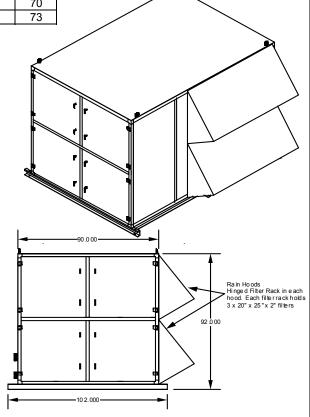
PHYSICAL INFORMATION

	120 Ton Make Up Air W/Reheat - 3 Stage							
	HHX41	C1440CTXXK1S						
Ī	FAN WHEEL	25X25						
I	FAN MOTOR	15 HP						
(Compressor 1	DANFOSS 25 TONS						
(Compressor 2	DANFOSS 25 TONS						
(Compressor 3	DANFOSS 25 TONS						
(Compressor 4	DANFOSS 25 TONS						
I	Heat/Cool Air Coil	70 X 36 (X2) 6 Rows						
I	Reheat Air Coil	70 X 36 (X2) 2 Rows						
١	Water Flow	342.0 GPM						
I	Loop Pump/s	NONE						
I	PRESSURE DROP	19.7 Ft of Hd						
١	Water Source HX	(2X) 50 Tons AISI 316 L SS						
	Refrigerant	R-22						
	Filter Size	25 X 20 (X6)						
١	Weight	9000 LBS						



UNIT ELECTRICAL DATA							
Unit VOLTAGE 60 HZ	FLA	MCA	MOCP	Recomm Breaker	Electrical feeds to unit		
230v/1Ø					1		
208V/3Ø					1		
460V/3Ø	198.2	222.9	321.5	280	1		

DIMENSIONS AND LAYOUT MAY CHANGE WITH SPECIFIC SITE REQUIREMENTS.



PERFORMANCE DATA

Cabinet	HEATING				COOLING					
Tonnage	GPM	EWT	HC	COP	GPM	EWT	HR	TC	SC	EER
115	342	85°F	376,519	4.3	342	85°F	1,712,191	1,369,476	632,780	13.6
	·		-		EADB	EAWB	LADB	LAWB		
					91°F	79°F	55°F	55°F		

External Static Pressure	1.5
Internal Static Pressure	0.7
Total Static Pressure	2.2

EXTERNAL STATIC PRESSURE @668 RPM

	1.0"	1.1"	1.2"	1.3"	1.4"	1.5"	1.6"
CFM	22,100	20,600	19,250	18,500	17,800	17,100	16,700



ROOFTOP UNITS



HYDRO-TEMP Corporation manufactures a wide variety of rooftop units ranging from relatively simple heating and cooling units to large complex units that incorporate fresh air intake coupled with energy recovery heat exchange between the exhaust air and the incoming fresh air. Call us with your rooftop needs.





THE CORNER CONSOLE

Designed for the classroom, the Corner Console is an exciting new product in Hydro-Temp's line of geothermal units. Available in sizes from 1 to 5 tons, the unit can be used in new construction as well as retrofitted to existing structures.

The Corner Console is designed and constructed to give a pleasing appearance as well as provide easy access for service and maintenance. The heavy gauge steel cabinet is finished with baked on, corosion resistant, high quality epoxy powder coating, and is often used as a magnetic bulletin board in the classroom.

The two-piece unit, which stands 95 inches high and takes up only 4 1/2 square feet of floor space, can be fitted with a matching additional front panel to fill in the distance to ceilings that are more than 95 inches from the floor.

The innovative design allows the unit to be installed without ductwork, and without a mechanical closet or enclosure. This can save nearly as much as the cost of the unit. The two-piece design allows the unit to fit through any standard 30-inch wide door.



Geothermal Heating and Cooling since 1978

CORNER CONSOLE

General Specifications

<u>Cabinet</u> - All cabinets are design built to aid in installation and serviceability.

Insulation - 1" thick multi-density sound absorbing.

<u>Drain pan</u> – Sloped, one piece welded aluminum, 0.036" thick with corrosion resistant coating.

Refrigerant Circuit - Sealed and contains reversing valve, distributor, thermal expansion valve, and high/low side access valves.

<u>Compressor</u> - Hermetically sealed with overload protection and mounted on rubber insulators.

<u>Heat Exchangers</u> – Brazed Plate, with brazed fittings.

<u>Air Coil</u> – Heaatcraft ARI certified, Seamless copper filled tube with aluminum lanced fins and aluminum end plates.

Fan - Forward curved centrifugal wheel with epoxy coated housing.

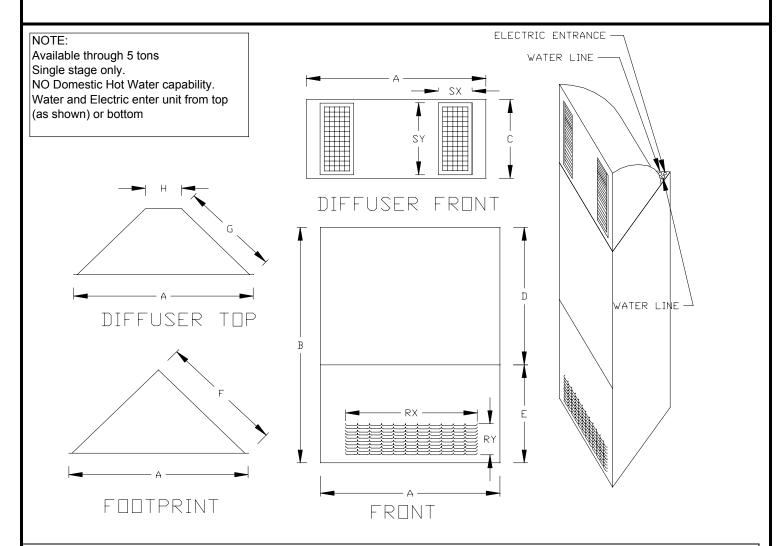
Fan Motor – GE electronically commutated motor

<u>Electrical</u> - High pressure, and low pressure safety switches, compressor relay, 24 volt 100 VA transformer, 24 VAC control system. Electrical panel hinges and lifts out for service.

Control - Field mounted 24 volt digital wall thermostat.

Options and Accessories:

- · Extended Corrosion Resistant heat exchanger .
- · Cleanable electrostatic filter.
- · UVC Antibacterial Light
- · CO2 sensor controlled fresh air intake.
- · Enhanced Dehumidification option.
- · Ceiling Trim Kit



	Dimensions in Inches												
Α	В	С	D	Е	F	G	Н	SX	SY	RX	RY	Water Lines	Cond. Line
53	72	23	42	30	36	28.5	11.75	10	22	43.5	11.5	1 in	3/4 in



ENERGY RECOVERY VENTILATOR (ERV)



In response to increasing demand for fresh air induction into classroom spaces, Hydro-Temp Corporation has introduced an Energy Recovery Ventilator designed for the Corner Console.

With the same footprint as the Corner Console, the Energy Recovery Ventilator (ERV) becomes a platform for the Corner Console. Since most classrooms have ceiling heights of 9 ft. or more, this becomes an integral part of the Corner Console installation.

The "cassette" mounted enthalpy wheel and motor are easily removed from the front of the unit for cleaning and service.

It's a rare device that increases health benefits while decreasing operating costs. The ERV accomplishes both by bringing in air that is fresh, but not "raw". By tempering that incoming air, the ERV reduces the work that the Corner Console would otherwise have to do.





The "Cassette" mounted wheel and motor are easily removed from the front of the unit for cleaning and service.



Geothermal Heating and Cooling since 1978

PROJECT ERV for Corner Console

2/9/2006 UNIT DESIGNATION

ERV-1

PAGE 1

General Specifications

Cabinet - design built to aid in installation and serviceability.

Insulation - 1" thick multi-density sound absorbing.

Cassette Components

The energy recovery component shall incorporate a rotary wheel air-to air heat exchanger in an insulated cassette frame complete with seals, exhaust back-draft damper and drive motor and drive belt.

Coatings and Desiccants

The total energy recovery wheel shall be coated with silica gel desiccant permanently bonded by a patented and proprietary process without the use of binders or adhesives, which may degrade desiccant performance. The substrate shall be lightweight polymer and shall not degrade nor require additional coatings for application in marine or coastal environments. Coated segments shall be washable with detergent or alkaline coil cleaner and water. Desiccant shall not dissolve nor deliquesce in the presence of water or high humidity.

Wheel Layers

The wheel shall be wound continuously with one flat and one structured layer in an ideal parallel plate geometry providing laminar flow and minimum pressure drop-to-efficiency ratios. The layers shall be effectively captured in stainless steel wheel frames or aluminum and stainless steel segment frames that provide a rigid and self-supporting matrix.

Seals and Belts

All diameter and perimeter seals shall be provided as part of the cassette assembly and shall be factory set. Drive belt(s) of stretch urethane shall be provided for wheel rim drive without the need for external tensioners or adjustment.

Due to the Airxchange policy of continuous product improvement, specifications for energy recovery components are subject to change without notice.

PHYSICAL INFORMATION

DESCRIPTION	ERV FOR CORNER CONSOLE 1 Speed
MODEL NO	HUX1XA00ARXXKXX
FAN WHEEL	10"Ø (x2)
FAN MOTOR	TubeAxial 200w (x2)
Dessicant Wheel Size	18"
Filter	Electrostatic
Weight	125 LBS

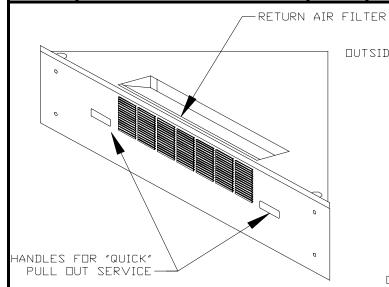
UNIT ELECTRICAL DATA

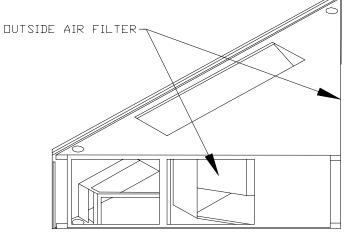
Unit			
VOLTAGE	FLA	MCA	MOCP
60 HZ			
208/1Ø	2.5	3.1	5.0

ERV POWER SUPPLIED FROM ASSOCIATED CORNER CONSOLE



PROJECT 0 01/00/00 UNIT DESIGNATION CC-ERV PAGE 2



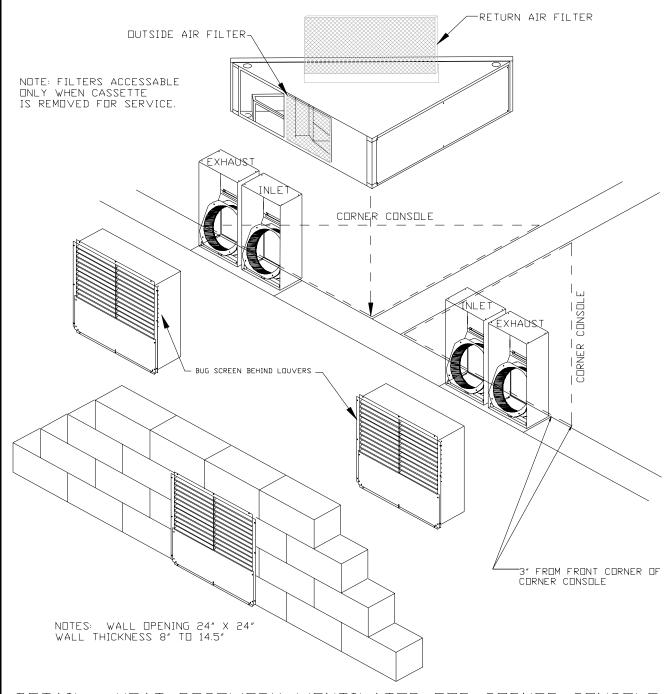


OUTSIDE AIR FILTER ON LEFT OR RIGHT, ACCESSED WITH CASSETTE OUT FOR SERVICE

PERFORMANCE DATA	Model Number ERC-	1906	
DESIGN CONDITIONS	Dry Bulb, F	Wet Bulb, F	Enthalpy, Btu/lb
SUMMER, Outdoor	96	78	41.53
SUMMER, Indoor	75	63	28.57
WINTER, Outdoor	16	15	5.42
WINTER, Indoor	72	54	22.58
SUPPLY AIR FLOW RATE, cfm	450		
EXHAUST AIR FLOW RATE, cfm	450		
Latent Effectiveness	62.86%		DIMENSIONS:
Sensible Effectiveness	70.90%		WIDTH ACROSS FACE 53 IN.
Measured Effectiveness (S/W)	69.60%	72.20%	DEPT INTO CORNER 36 IN
Net Effectiveness (S/W)	65.80%	68.40%	HEIGHT 12 IN
SUPPLY AIR CONDITIONS	Summer	Winter	
Dry Bulb Temperature, F	80.5	56.14	
Wet Bulb Temperature, F	68.09	44.55	
Enthalpy, Btu/lb	32.52	17.45	
Relative Humidity, %	53.5	38.1	
DESIGN LOADS, Btu/h			
Outside Air, Sensible	9,808	27,658	
Outside Air, Latent	15,414	7,672	
*			
Outside Air, Total	25,222	35,330	
Outside Air, Total Total Recovered	16,690	23,853	
Outside Air, Total			
Outside Air, Total Total Recovered	16,690	23,853	



PROJECT 0 01/00/00 UNIT DESIGNATION CC-ERV PAGE 3



DETAIL: HEAT RECOVERY VENTILATOR FOR CORNER CONSOLE



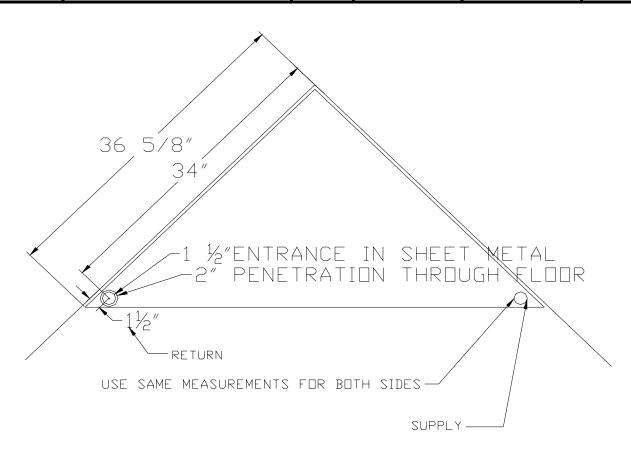
Geothermal Heating and Cooling since 1978

PROJECT ERV for Corner Console

02/09/06 UNIT DESIGNATION

ERV-1

PAGE 4

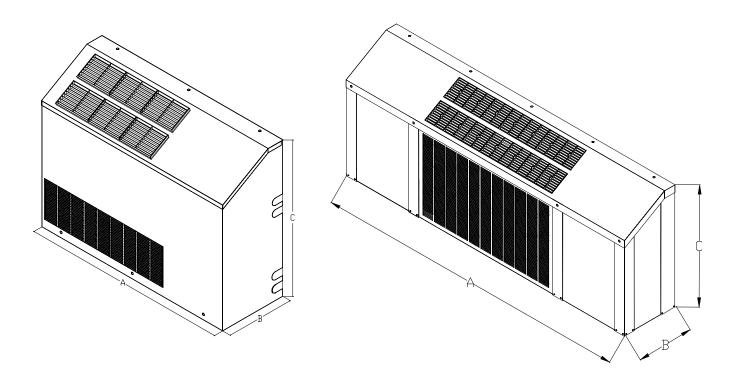


DETAIL: PLUMBING PENETRATIONS

(WHEN WATER IS FED FROM BELOW FLOOR)



CONSOLE UNITS



The Narrow Console

The Long Console

These consoles fit a variety of spaces. Ideal for small spaces or those hard to fit areas in school entry ways, hallways or under windows, or other architectural features, these consoles make efficient use of available space. The different cabinet configurations make it possible to fit one of these consoles in almost any space.

Available in sizes ranging up through 3 tons, these units are not suitable for creating hot water and internal electric heat is also not available on these units.

Water line entrances, condensate drain, and electrical entrance can be selected in the field. These consoles are designed for easy access for the service technician. The cabinets are constructed of heavy gauge metal and insulated with 1-inch thick insulation for noise suppression.



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NARROW CONSOLE

General Specifications

<u>Cabinet</u> - All cabinets are design built to aid in installation and serviceability.

Insulation - 1" thick multi-density sound absorbing.

<u>Drain pan</u> – Sloped, one piece welded aluminum, 0.036" thick with corrosion resistant coating.

<u>Refrigerant Circuit</u> - Sealed and contains reversing valve, distributor, thermal expansion valve, and high/low side access valves.

<u>Compressor</u> - Hermetically sealed with overload protection and mounted on rubber insulators.

<u>Heat Exchangers</u> – Brazed Plate, with brazed fittings.

<u>Air Coil</u> – Heaatcraft ARI certified, Seamless copper filled tube with aluminum lanced fins and aluminum end plates.

Fan - Forward curved centrifugal wheel with epoxy coated housing.

Fan Motor - GE electronically commutated motor

<u>Electrical</u> - High pressure, and low pressure safety switches, compressor relay, 24 volt 100 VA transformer, 24 VAC control system. Electrical panel hinges and lifts out for service.

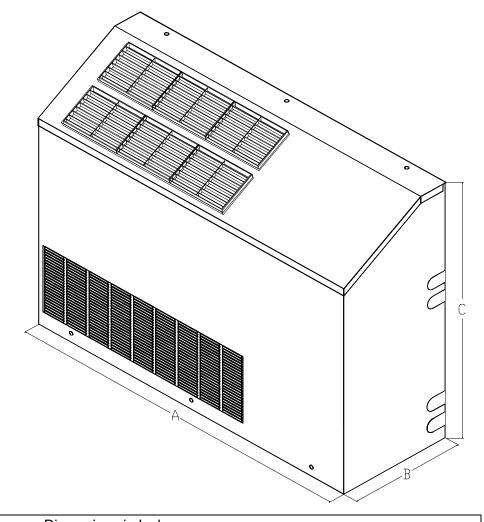
Control - Field mounted 24 volt digital wall thermostat.

Options and Accessories:

- · Extended Corrosion Resistant heat exchanger .
- · Cleanable electrostatic filter.
- · UVC Antibacterial Light
- · CO2 sensor controlled fresh air intake.
- · Enhanced Dehumidification option.

NOTE:

Available through 3 tons
Single stage only.
NO Domestic Hot Water capability.
Water and Electric enter from rear or
either side of unit



Dimensions in Inches													
Α	В	С										Water Lines	Cond. Line
48	16	36								·		1 in	3/4 in



Geothermal Heating and Cooling since 1978

LONG CONSOLE

General Specifications

<u>Cabinet</u> - All cabinets are design built to aid in installation and serviceability.

Insulation - 1" thick multi-density sound absorbing.

<u>Drain pan</u> – Sloped, one piece welded aluminum, 0.036" thick with corrosion resistant coating.

<u>Refrigerant Circuit</u> - Sealed and contains reversing valve, distributor, thermal expansion valve, and high/low side access valves.

<u>Compressor</u> - Hermetically sealed with overload protection and mounted on rubber insulators.

Heat Exchangers - Brazed Plate, with brazed fittings.

<u>Air Coil</u> – Heaatcraft ARI certified, Seamless copper filled tube with aluminum lanced fins and aluminum end plates.

Fan - Forward curved centrifugal wheel with epoxy coated housing.

<u>Fan Motor</u> – GE electronically commutated motor <u>Electrical</u> - High pressure, and low pressure safety switches, compressor relay, 24 volt 100 VA transformer, 24 VAC control system. Electrical panel hinges and lifts out for service.

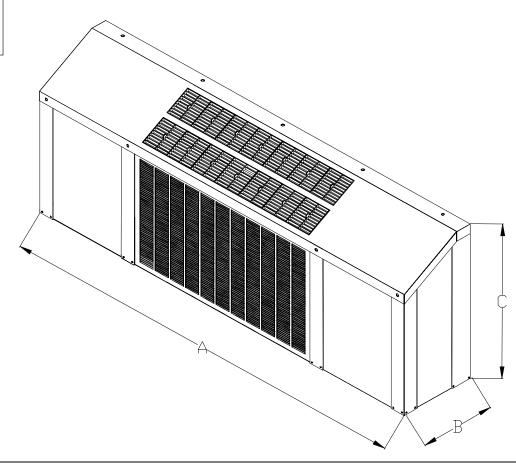
Control - Field mounted 24 volt digital wall thermostat.

Options and Accessories:

- Extended Corrosion Resistant heat exchanger .
- · Cleanable electrostatic filter.
- · UVC Antibacterial Light
- · CO2 sensor controlled fresh air intake.
- · Enhanced Dehumidification option.

NOTE:

Available through 3 tons
Single stage only.
NO Domestic Hot Water capability.
Water and Electric enter from rear
of unit



	Dimensions in Inches												
Α	В	C										Water Lines	Cond. Line
84	15.25	32.25										1 in	3/4 in