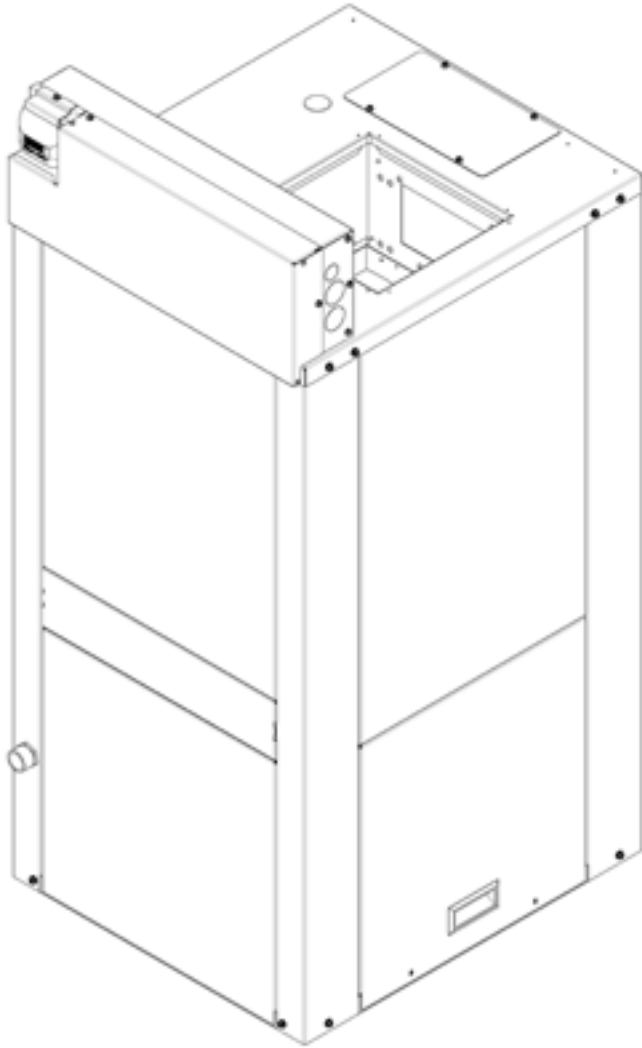


Engineering Submittal Data

YT with Connected Controls Models
Packaged Water-to-Air Multi-Positional Heat Pumps

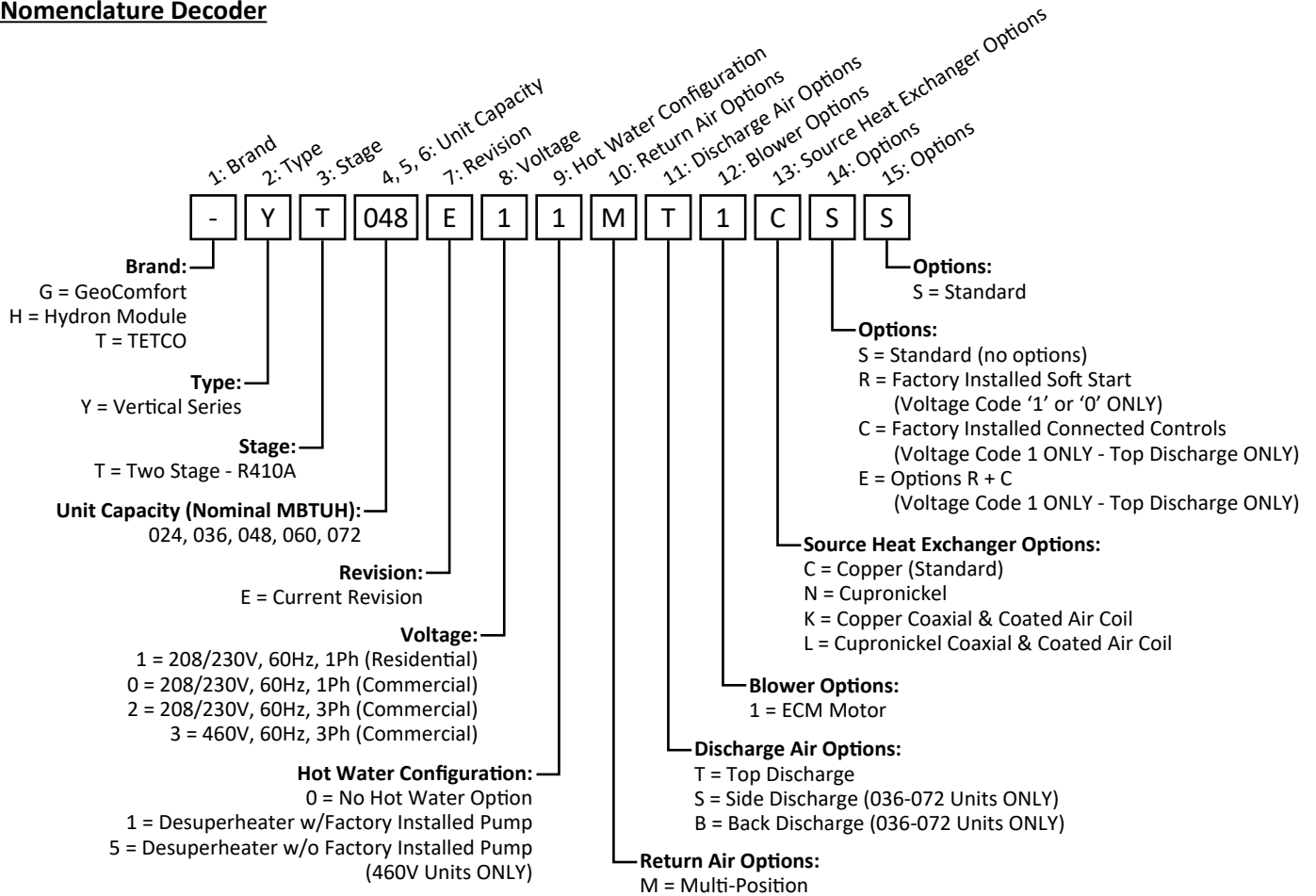


Project Name:	_____
Engineer:	_____
Contractor:	_____
Architect:	_____
Date Received:	_____
Date Submitted:	_____

Unit Tag	Model Number
_____	_____
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Notes:

Nomenclature Decoder



AHRI Performance Data

AHRI Performance Data								
Ground Loop Heat Pump								
Model	Full Load Cooling		Full Load Heating		Part Load Cooling		Part Load Heating	
	Btu/hr	EER	Btu/hr	COP	Btu/hr	EER	Btu/hr	COP
YT024	27,100	19.9	19,000	4.3	21,400	28.2	15,200	4.8
YT036	41,200	20.9	29,100	4.5	31,500	31.3	23,300	5.1
YT048	53,300	20.2	39,900	4.3	42,600	29.6	32,000	4.9
YT060	64,300	19.3	49,200	4.1	50,000	28.0	37,700	4.6
YT072	71,900	18.0	56,200	3.8	58,500	24.8	45,800	4.4
Ground Water Heat Pump								
Model	Full Load Cooling		Full Load Heating		Part Load Cooling		Part Load Heating	
	Btu/hr	EER	Btu/hr	COP	Btu/hr	EER	Btu/hr	COP
YT024	29,200	25.7	23,400	5.3	22,200	33.6	17,500	5.5
YT036	44,300	27.0	37,500	5.5	32,700	37.4	26,600	5.8
YT048	57,100	26.2	49,500	5.2	44,100	35.3	35,900	5.5
YT060	68,700	24.8	61,700	4.9	51,900	33.4	42,900	5.2
YT072	77,600	23.2	71,100	4.6	60,800	29.5	52,100	4.8

Notes:

Rated in accordance with ISO Standard 13256-1 which includes Pump Penalties.
 Heating capacities based on 68.0°F DB, 59.0°F WB entering air temperature.
 Cooling capacities based on 80.6°F DB, 66.2°F WB entering air temperature.
 GLHP - Entering water temperatures Full Load: 32°F heating / 77°F cooling.
 GLHP - Entering water temperatures Part Load: 41°F heating / 68°F cooling.
 GWHP - Entering water temperatures: 50°F heating / 59°F cooling.

Unit Physical Data

Dual Capacity Vertical					
Model Number	024	036	048	060	072
Fan Wheel (in.)	10 x 8	11 x 10	11 x 10	11 x 10	11 x 10
Fan Motor ECM (HP)	3/4	3/4	3/4	1	1
Refrigerant Charge (oz.)	56	76	87	94	94
Air Coil	024	036	048	060	072
Face Area (Sq. Ft.)	3.51	4.76	4.76	5.65	5.65
Dimensions (in.)	25.5 x 19.8 x 1	28.9 x 23.7 x 1.26		32.8 x 24.8 x 1.26	
Number of Rows	N/A - Micro-Channel Coil				
Unit Weight lbs (shipping)	300	415	450	475	480

Notes:

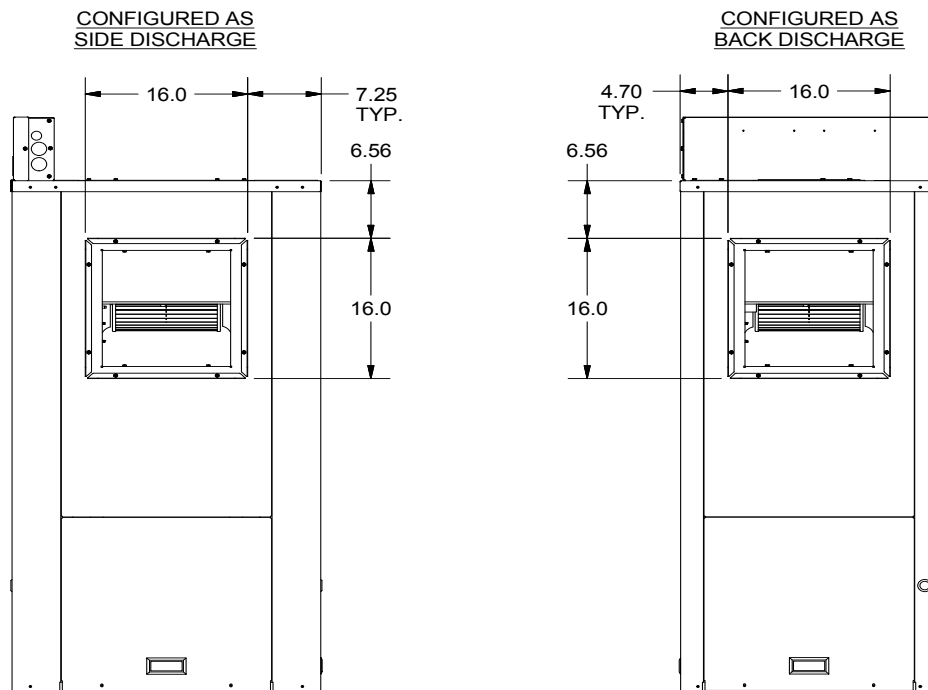
Source water loop - residential models use 1" double O-ring fittings, commercial models use 1" FPT fittings.

All measurements are in inches.

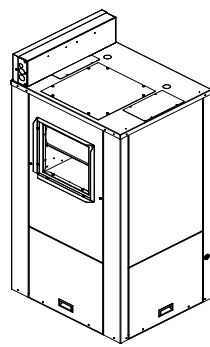
All Desuperheater connections are 3/4" FPT.

Electrical connections are 1" for high voltage, 1/2" for low voltage

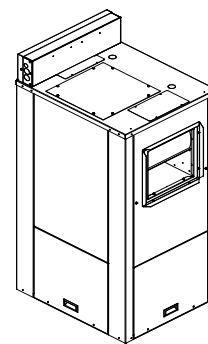
* Width excludes field installed factory supplied flanges.



Note:
Side and Back Discharge configurations are only available in 036 through 072 models.

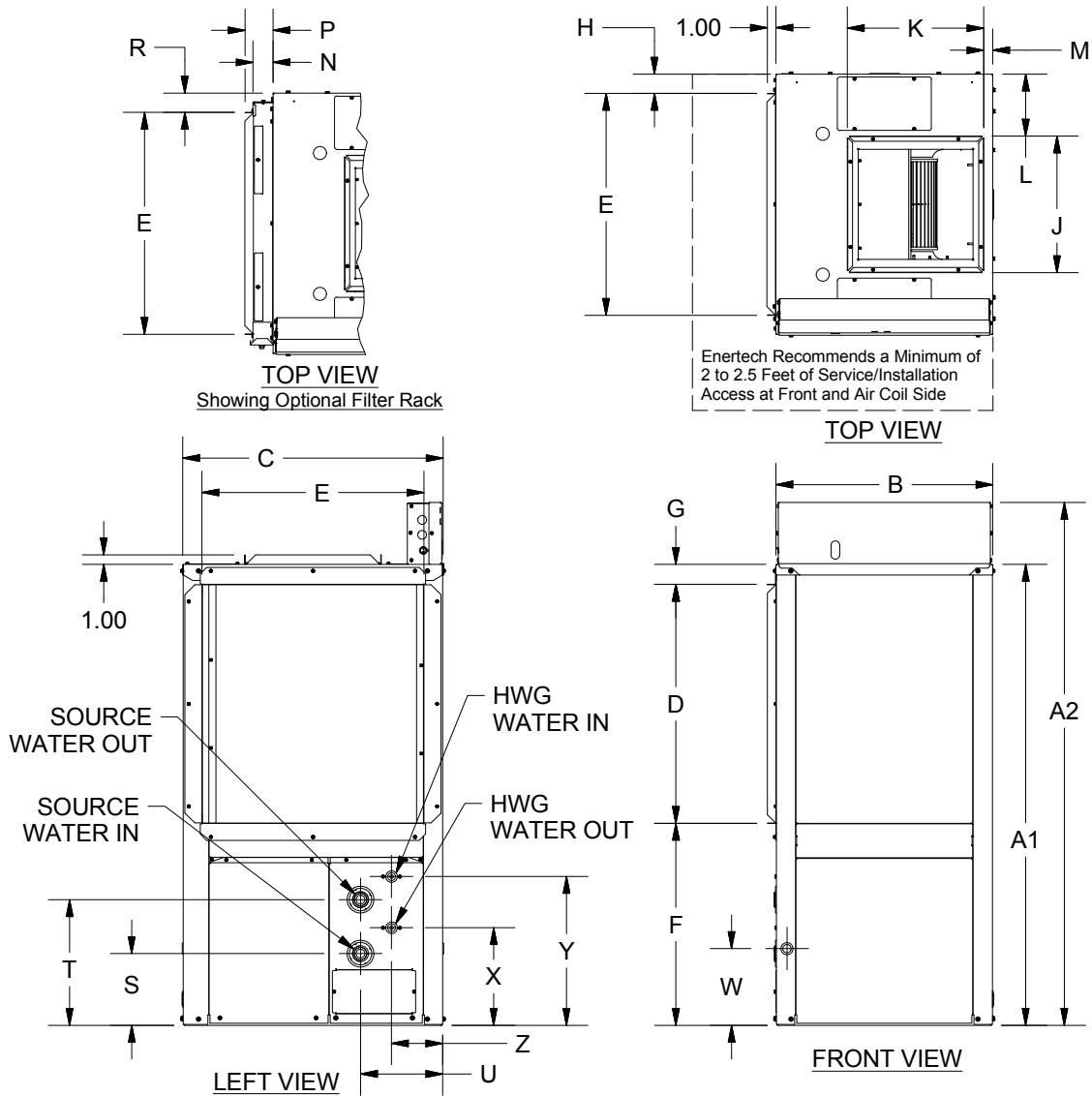


SIDE DISCHARGE



BACK DISCHARGE

Unit Dimensional Data



Model	Without Control Box			With Control Box	Return Air Flange					Supply Air Flange				Optional Filter Rack		
	A1	*B	C	A2	D	E	F	G	H	J	K	L	M	N	P	R
024	46.0	23.0	26.5	53.25	25.0	20.0	19.1	1.92	3.63	11.62	12.5	7.44	1.05	2.34	3.00	3.63
036-048	54.0	25.4	30.5	61.2	28.0	26.0	23.7	2.34	2.25	16.0	16.0	7.26	1.60	2.34	3.29	2.25
060-072	58.4	25.4	30.5	65.6	32.0	26.0	24.0	2.34	2.25	16.0	16.0	7.26	1.60	2.34	3.29	2.25

Model	Source Water			Drain Ht.	HWG Water		
	S	T	U	W	X	Y	Z
024	8.28	13.63	9.63	9.0	10.31	14.75	6.00
036-048	8.41	14.73	9.63	9.0	11.44	17.44	6.00
060-072	5.56	12.21	9.63	12.2	14.63	17.88	6.00

Notes:

Source water loop - residential models use 1" double o-ring fittings, commercial models use 1" FPT fittings. All measurements are in inches. All Desuperheater (HWG) connections are 3/4" FPT fittings. Electrical connect. are 1" for high voltage, 1/2" for low voltage. *B (Unit Width) excludes field installed factory supplied flanges.

Unit Electrical Data

Model	Voltage Code/ HWG Option	60 Hz Power		Compressor		Fan Motor FLA	HWG Pump FLA	Ext. Loop Pump FLA	Total Unit FLA	Min Circuit AMPS	Max Brkr HACR
		Volts	Phase	LRA	RLA						
YT024	00	208/230	1	58.3	11.7	5.9	0.0	0.0	17.6	20.5	30
	01	208/230	1	58.3	11.7	5.9	0.5	0.0	18.1	21.0	30
	10	208/230	1	58.3	11.7	5.9	0.0	4.0	21.6	24.5	35
	11	208/230	1	58.3	11.7	5.9	0.5	4.0	22.1	25.0	35
	20	208/230	3	55.4	6.5	5.9	0.0	0.0	12.4	14.0	20
	21	208/230	3	55.4	6.5	5.9	0.5	0.0	12.9	14.5	20
	30/35	460	3	28.0	3.5	4.8	0.0	0.0	8.3	9.2	15
YT036	00	208/230	1	83.0	15.6	5.9	0.0	0.0	21.5	25.4	40
	01	208/230	1	83.0	15.6	5.9	0.5	0.0	22.0	25.9	40
	10	208/230	1	83.0	15.6	5.9	0.0	4.0	25.5	29.4	45
	11	208/230	1	83.0	15.6	5.9	0.5	4.0	26.0	29.9	45
	20	208/230	3	73.0	11.6	5.9	0.0	0.0	17.5	20.4	30
	21	208/230	3	73.0	11.6	5.9	0.5	0.0	18.0	20.9	30
	30/35	460	3	38.0	5.7	4.8	0.0	0.0	10.5	11.9	15
YT048	00	208/230	1	104.0	21.2	5.9	0.0	0.0	27.1	32.4	50
	01	208/230	1	104.0	21.2	5.9	0.5	0.0	27.6	32.9	50
	10	208/230	1	104.0	21.2	5.9	0.0	5.5	32.6	37.9	50
	11	208/230	1	104.0	21.2	5.9	0.5	5.5	33.1	38.4	60
	20	208/230	3	83.1	14.0	5.9	0.0	0.0	19.9	23.4	35
	21	208/230	3	83.1	14.0	5.9	0.5	0.0	20.4	23.9	35
	30/35	460	3	41.0	6.4	4.8	0.0	0.0	11.2	12.8	15
YT060	00	208/230	1	152.9	27.1	7.4	0.0	0.0	34.5	41.3	60
	01	208/230	1	152.9	27.1	7.4	0.5	0.0	35.0	41.8	60
	10	208/230	1	152.9	27.1	7.4	0.0	5.5	40.0	46.8	70
	11	208/230	1	152.9	27.1	7.4	0.5	5.5	40.5	47.3	70
	20	208/230	3	110.0	16.5	7.4	0.0	0.0	23.9	28.0	45
	21	208/230	3	110.0	16.5	7.4	0.5	0.0	24.4	28.5	45
	30/35	460	3	52.0	7.2	6.0	0.0	0.0	13.2	15.0	20
YT072	00	208/230	1	179.2	29.7	7.4	0.0	0.0	37.1	44.5	70
	01	208/230	1	179.2	29.7	7.4	0.5	0.0	37.6	45.0	70
	10	208/230	1	179.2	29.7	7.4	0.0	5.5	42.6	50.0	80
	11	208/230	1	179.2	29.7	7.4	0.5	5.5	43.1	50.5	80
	20	208/230	3	136.0	17.6	7.4	0.0	0.0	25.0	29.4	45
	21	208/230	3	136.0	17.6	7.4	0.5	0.0	25.5	29.9	45
	30/35	460	3	66.1	8.5	6.0	0.0	0.0	14.5	16.6	25

Notes:

1. All line and low voltage wiring must adhere to the National Electrical Code and local codes, whichever is the most stringent.
2. In determining the correct supply wire size and maximum length, reference NFPA 70, Section 310. If the calculation is close to the maximum allowable ampacity of a particular wire size, use the next size up. This will ensure that no adverse effects occur, such as light dimming and/or shortened compressor life.
3. Min/Max Voltage: 208/230/60 = 187-252, 460/60 = 432-502
4. See Wiring Diagrams for proper 460V power.

*The external loop pump FLA is based on a maximum of three UP26-116F-230V pumps (1/2hp) for 048-072 and two

ECM Fan Performance

***YT Series ECM Blower Performance Data: Two-Stage Compressor Units**

Model	Max ESP in. w.c. ²	Program ³	Heating Mode		Cooling Mode		Dehumidification Mode		Fan Only	AUX/ EMG Heat	DIP Switch Settings							
			1st	2nd	1st	2nd	1st	2nd			S1	S2	S3	S4	S5	S6	S7	S8
024	1.4	A	790	1100	780	1040	670	880	520	1230	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		B	780	1010	770	1030	650	840	450	1190	ON	OFF	OFF	OFF	ON	OFF	OFF	OFF
		C	670	900	670	890	510	760	420	1130	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF
		D	640	840	650	840	480	710	410	1100	ON	ON	OFF	OFF	ON	ON	OFF	OFF
036	1.1	A	1250	1520	1230	1560	1070	1330	760	1760	ON	OFF	ON	OFF	ON	OFF	OFF	OFF
		B	1130	1380	1130	1420	970	1210	690	1480	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF
		C	1030	1240	1010	1280	870	1080	620	1310	ON	OFF	OFF	OFF	ON	ON	OFF	OFF
		D	930	1130	930	1170	800	990	500	1210	ON	ON	OFF	OFF	ON	ON	OFF	OFF
048	1.1	A	1570	1970	1680	1880	1440	1590	930	2020	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF
		B	1420	1790	1530	1710	1310	1440	850	1880	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		C	1280	1600	1380	1540	1180	1290	770	1690	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF
		D	1090	1370	1280	1420	1090	1200	690	1500	ON	OFF	OFF	OFF	ON	OFF	OFF	OFF
060	1.2	A	1870	2160	1800	2170	1500	1825	1050	2380	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF
		B	1680	1960	1610	1960	1370	1660	950	2170	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		C	1500	1750	1450	1770	1230	1490	850	1950	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF
		D	1220	1440	1300	1580			740	1690	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF
072	1.2	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		B	1870	2160	1800	2170	1500	1830	1050	2390	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF
		C	1680	1960	1610	1960			950	2180	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
		D	1500	1750	1450	1770			850	1960	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF

Notes:

1. Program **B (Bold Type)** is factory settings and rated CFM. CFM is controlled within 5% up to the Max ESP.
2. Max ESP includes allowance for wet coil and NO FILTER
3. Power must be off to the unit for at least 3 seconds before the ECM motor will recognize a program change.
4. Max ESP for *YT024 models with internal electric heat is 0.5"; for *YT036 and *YT048 it is 0.6"; for *YT060 and *YT072 it is 0.7". Exceeding the Max ESP may result in nuisance trips of the electric heat. Thermal limits are rated at 100,000 cycles.
5. *YT060 models with 10kW internal electric heat cannot be set on the 'D' program.

***YT Series Dehumidification Mode Options**

DIP Switch		Mode	Operation
S9	S10		
ON	OFF	Normal	Dehumidification mode disabled (Normal Htg/Clg CFM)-- Factory setting.
OFF	ON	ODD	On Demand Dehumidification mode (humidistat input at terminal ODD)-- Humidistat required.
OFF	OFF	Constant Dehum	Constant Dehumidification mode (always uses dehum CFM for cooling and normal CFM for heating)--No humidistat required.
ON	ON	Not Used	Not an applicable selection.

Notes:

1. To enter dehumidification mode, ODD input should be 0 VAC; for normal cooling CFM, ODD input should be 24 VAC.
2. Heating CFM is not affected by dehumidification mode. When in dehumidification mode, cooling CFM is 85% of normal CFM.

Filter Performance

The blower performance data in the ECM Blower Performance table is WITHOUT FILTER. To determine the approximate blower performance WITH FILTER apply the filter pressure drop value for the filter being used or calculate the pressure drop as follows:

Below is typical filter performance data and should only be used as a guideline. Actual performance may vary between manufacturers.

Model	Return Size		
	Height (in.)	Width (in.)	Area (ft ²)
024	26	21	3.8
036	28	26	5.1
048			
060	32	26	5.8
072			
Filter Type	Thickness (in.)	Rated Velocity (fpm)	Initial Resistance (in. w.c.)
MERV 8	1	300	0.21
MERV 11	2	500	0.24
MERV 13	3	500	0.43

Example: For an YT060 at an air flow of 1960 CFM calculate the filter pressure drop with a 2” MERV 11 filter and determine Total ESP and compare to Max ESP.

CFM = 1960
 Area = 5.8 ft²
 Rated Velocity = 500 fpm
 Initial Resistance = 0.24 in.w.c.
 Measured ESP without filter = 0.53

1. 1960 CFM ÷ 5.8 ft² = 338 fpm
2. 338 fpm ÷ 500 fpm = 0.676
3. 0.676 x 0.24 in.w.c. = 0.16 in.w.c. = Filter Pressure Drop
4. Total ESP is 0.53 + 0.16 = 0.69 in.w.c. which is less than the 1.2 in.w.c. Max ESP

Example: For an YT036 at an air flow of 1420 CFM calculate the filter pressure drop with a 2” MERV 13 filter and determine Total ESP and compare to Max ESP.

CFM = 1420
 Area = 5.1 ft²
 Rated Velocity = 500 fpm
 Initial Resistance = 0.43 in.w.c.
 Measured ESP without filter = 0.53

1. 1420 CFM ÷ 5.1 ft² = 278 fpm
2. 278 fpm ÷ 500 fpm = 0.556
3. 0.556 x 0.43 in.w.c. = 0.24 in.w.c. = Filter Pressure Drop
4. Total ESP is 0.36 + 0.24 = 0.6 in.w.c. which is less than the 1.1 in.w.c. Max ESP

To calculate filter pressure drop:

$$Filter \Delta P_s = \left[\frac{CFM}{Area} \right] \div \left[\frac{Rated}{Velocity} \right] \times Initial Resistance$$

Applying Filter Pressure Drop to Determine Total ESP

To determine the Total ESP of a unit with the filter in place, follow the steps below:

1. Select the filter type and determine Rated Velocity and Initial Resistance
2. For the model being considered determine Max ESP, CFM and Return Area
3. Determine Filter pressure drop (ΔPs) using the equation above.
4. Measure (or calculate) the ESP without filter in place
5. Calculate Total ESP = Measured ESP + Filter Pressure Drop
6. Total ESP should be less than or equal to Max ESP

Glossary of Terms	
CFM = Airflow, Cubic Feet/Minute	HR = Total Heat Of Rejection, Btu/hr
COP = Coefficient of Performance = BTU Output / BTU Input	KW = Total Power Unit Input, Kilowatts
DH = Desuperheater Capacity, Btu/hr	LAT = Leaving Air Temperature, Fahrenheit
EAT = Entering Air Temperature, Fahrenheit (Dry Bulb/Wet Bulb)	LC = Latent Cooling Capacity, Btu/hr
EER = Energy Efficiency Ratio = BTU output/Watts input	SC = Sensible Cooling Capacity, Btu/hr
EWT = Entering Source Water Temperature, Fahrenheit	LWT = Leaving Source Water Temperature, Fahrenheit
ELT = Entering Load Water Temperature, Fahrenheit	LLT = Leaving Load Water Temperature, Fahrenheit
GPM = Water Flow, Gallons Per Minute	TC = Total Cooling Capacity, Btu/hr
HC = Total Heating Capacity, Btu/hr	WPD = Water Pressure Drop, PSI & Feet of Water
HE = Total Heat Of Extraction, Btu/hr	

Sensible Cooling Correction Factors					
EAT (WB) °F	EAT (DB) °F				
	70	75	80	85	90
55	1.201	1.289			
60	0.943	1.067	1.192		
65	0.797	0.952	1.106	1.261	
67	0.624	0.812	1.000	1.188	1.343
70		0.697	0.820	0.944	1.067
75			0.637	0.817	0.983

Cooling Correction Factors			
EAT (WB) °F	TC	HR	kW
55	0.8215	0.8293	0.8635
60	0.8955	0.9001	0.9205
65	0.9701	0.9715	0.9774
67	1.0000	1.0000	1.0000
70	1.0446	1.0425	1.0335
75	1.1179	1.1124	1.0878

Heating and Cooling Calculations	
Heating	Cooling
$LAT = EAT + \frac{HC}{CFM \times 1.08}$	$LAT (DB) = EAT (DB) - \frac{SC}{CFM \times 1.08}$
$LWT = EWT - \frac{HE}{GPM \times 500}$	$LWT = EWT + \frac{HR}{GPM \times 500}$
LC = TC - SC	

Heating Correction Factors			
EAT °F	HC	HE	kW
50	1.0465	1.1188	0.8024
55	1.0351	1.0918	0.8436
60	1.0253	1.0645	0.8928
65	1.0108	1.0300	0.9454
70	1.0000	1.0000	1.0000
75	0.9895	0.9701	1.0553
80	0.9742	0.9489	1.0518

Water Flow Selection

Proper flow rate is crucial for reliable operation of geothermal heat pumps. The performance data shows three flow rates for each entering water temperature (EWT column). The general “rule of thumb” when selecting flow rates is the following:

- Top flow rate: Open loop systems (1.5 to 2.0 gpm per ton)
- Middle flow rate: Minimum closed loop system flow rate (2.25 to 2.50 gpm/ton)
- Bottom flow rate: Nominal (optimum) closed loop system flow rate (3.0 gpm/ton)

Although the industry standard is adequate in most areas of North America, it is important to consider the application type before applying this “rule of thumb.” Antifreeze is generally required for all closed loop (geothermal) applications. Extreme Southern U.S. locations are the only exception. Open loop (well water) systems cannot use antifreeze, and must have enough flow rate in order to avoid freezing conditions at the Leaving Source Water Temperature (LWT) connection.

Calculations must be made for all systems without antifreeze to determine if the top flow rate is adequate to prevent LWT at or near freezing conditions. The following steps should be taken in making this calculation:

- Determine minimum EWT based upon your geographical area.
- Go to the performance data table for the heat pump model selected and look up the Heat of Extraction (HE) at the “rule of thumb” water flow rate (GPM) and at the design Entering Air Temperature (EAT).
- Calculate the temperature difference (TD) based upon the HE and GPM of the model.
- $TD = HE / (GPM \times 485)$.
- Calculate the LWT.
- $LWT = EWT - TD$.
- If the LWT is below 35-38°F, there is potential for freezing conditions if the flow rate or water temperature is less than ideal conditions, and the flow rate must be increased.

Example 1:

EWT = 50 °F
Model YT036, full load. Flow rate = 4.5 GPM.
Air Flow = 1380 CFM. HE = 29,400 Btuh.
 $TD = 29,400 / (4.5 \times 485) = 13.5$ °F
 $LWT = 50 - 13.5 = 36.5$ °F
Water flow rate is acceptable.

Example 2:

EWT = 40 °F
Model YT036, full load. Flow rate = 4.5 GPM.
Air Flow = 1380 CFM. HE = 25,300 Btuh.
 $TD = 25,300 / (4.5 \times 485) = 11.6$ °F
 $LWT = 40 - 11.6 = 28.4$ °F
Water flow rate must be increased to avoid freezing.

Performance Data Notes

1. Capacity data is based on 15% (by mass) methanol antifreeze solution (multiplier: 485).
2. Heating data is based on 70°F EAT. Cooling data is based on 80/67°F EAT. Any condition outside performance table(s) requires correction factor(s).
3. Performance data accurate within ±15%.
4. Unit performance test is run without hot water generation.
5. Desuperheater capacity is based upon 2.0 GPM water flow at 70 oF entering water temperature.
6. Capacity data includes fan power but not pump power and it does not reflect fan or pump power correction for AHRI/ISO conditions.
7. Performance data is based upon the lower voltage of dual voltage rated units.
8. Interpolation of unit performance data is permissible; extrapolation is not.
9. Performance data is a result of lab testing and is not related to warranty.
10. Due to variations in installation, actual unit performance may vary from the tabulated data.
11. See Flow Rate Selection above for proper application.
12. Continuous research and development may result in a change to the current product design and specifications without notice.

YT024 Full Load Performance Data

EWT °F	Flow GPM	WPD		Full Load Heating							Full Load Cooling									
		PSI	FT	Aiflow CFM	LAT (DB) °F	HC MBtuh	HE MBtuh	Power kW	COP W/W	DH MBtuh	Aiflow CFM	LAT (DB) °F	TC MBtuh	SC MBtuh	HR MBtuh	Power kW	EER Btuh/W	DH MBtuh		
25	6.0	6.1	14.1	900	88.2	17.7	13.1	1.35	3.85	3.9	Operation not recommended									
				990	86.6	17.7	13.2	1.33	3.90	3.8										
30	3.0	2.0	4.5	900	88.2	17.7	13.2	1.3	3.9	3.9										
				990	86.6	17.8	13.3	1.3	3.9	3.7										
	4.5	3.7	8.4	900	89.0	18.4	13.8	1.34	4.02	4.0										
				990	87.3	18.5	13.9	1.33	4.06	3.8										
	6.0	5.6	13.0	900	89.5	18.9	14.3	1.36	4.09	4.1										
				990	87.7	19.0	14.4	1.34	4.13	3.9										
40	3.0	1.8	4.1	900	90.4	19.8	15.2	1.36	4.29	4.2										
				990	88.6	19.9	15.3	1.34	4.34	4.0										
	4.5	3.3	7.7	900	91.2	20.6	16.0	1.37	4.42	4.4										
				990	89.3	20.7	16.0	1.36	4.47	4.2										
	6.0	5.1	11.9	900	91.8	21.2	16.5	1.38	4.50	4.5										
				990	89.9	21.2	16.6	1.37	4.55	4.3										
50	3.0	1.7	3.8	900	93.1	22.4	17.7	1.40	4.71	4.7										
				990	91.0	22.5	17.7	1.38	4.76	4.5										
	4.5	3.1	7.1	900	94.0	23.3	18.5	1.41	4.85	4.9										
				990	91.9	23.4	18.6	1.40	4.91	4.7										
	6.0	4.7	10.9	900	94.6	23.9	19.1	1.42	4.94	5.0										
				990	92.4	24.0	19.2	1.41	4.99	4.8										
60	3.0	1.5	3.5	900	96.3	25.6	20.6	1.46	5.15	5.4										
				990	94.0	25.6	20.7	1.45	5.20	5.2										
	4.5	2.8	6.5	900	97.4	26.6	21.6	1.47	5.30	5.6										
				990	95.0	26.7	21.7	1.46	5.36	5.4										
	6.0	4.4	10.1	900	98.1	27.3	22.3	1.49	5.39	5.8										
				990	95.6	27.4	22.4	1.47	5.45	5.6										
70	3.0	1.4	3.3	900	99.9	29.0	23.8	1.54	5.53	6.2										
				990	97.2	29.1	23.9	1.53	5.59	6.0										
	4.5	2.6	6.1	900	101.1	30.2	24.9	1.55	5.70	6.5										
				990	98.3	30.3	25.0	1.54	5.76	6.2										
	6.0	4.1	9.4	900	101.9	31.0	25.7	1.57	5.79	6.7										
				990	99.1	31.1	25.8	1.55	5.86	6.4										
80	3.0	1.3	3.1	900	103.3	32.4	26.8	1.63	5.82	7.1										
				990	100.3	32.4	26.9	1.62	5.89	6.9										
	4.5	2.5	5.7	900	104.6	33.7	28.1	1.65	6.00	7.5										
				990	101.6	33.7	28.2	1.63	6.07	7.2										
	6.0	3.8	8.8	900	105.6	34.6	28.9	1.66	6.10	7.7										
				990	102.4	34.6	29.0	1.65	6.17	7.4										
90	3.0	1.3	2.9	900	106.7	35.7	29.8	1.72	6.07	8.1										
				990	103.4	35.8	29.9	1.71	6.13	7.8										
	4.5	2.4	5.4	900	108.2	37.1	31.2	1.74	6.25	8.5										
				990	104.8	37.2	31.3	1.73	6.32	8.2										
	6.0	3.6	8.4	900	109.2	38.1	32.1	1.76	6.36	8.8										
				990	105.7	38.2	32.2	1.74	6.43	8.4										
100	3.0	1.1	2.6	Operation not recommended							890	60.9	27.0	20.6	32.7	1.68	16.0	7.3		
											1000	60.7	24.7	18.5	31.8	2.08	11.9	10.0		
	4.5	2.1	4.9								890	61.8	25.1	19.6	32.3	2.10	12.0	10.1		
											1000	60.6	24.9	18.6	31.5	1.95	12.7	9.0		
	6.0	3.3	7.7								890	61.7	25.3	19.7	32.0	1.97	12.8	9.2		
											1000	60.5	24.9	18.7	31.3	1.89	13.2	8.5		
110	3.0	1.1	2.5								890	61.6	25.3	19.8	31.8	1.91	13.3	8.7		
											1000	61.6	22.8	17.7	30.9	2.38	9.6	11.7		
	4.5	2.1	4.7								890	62.7	23.2	18.7	31.4	2.40	9.7	11.9		
											1000	61.5	23.0	17.7	30.6	2.23	10.3	10.6		
	6.0	3.2	7.4								890	62.6	23.4	18.8	31.0	2.25	10.4	10.8		
											1000	61.4	23.0	17.8	30.4	2.15	10.7	10.0		
120	3.0	1.0	2.4	890	62.5	23.4	18.9	30.8	2.18	10.8	10.2									
				1000	62.2	21.0	17.1	30.3	2.74	7.7	13.6									
	4.5	2.0	4.5	890	63.2	21.3	18.1	30.8	2.77	7.7	13.8									
				1000	62.2	21.1	17.2	29.8	2.57	8.2	12.4									
	6.0	3.1	7.1	890	63.2	21.4	18.2	30.3	2.59	8.3	12.6									
				1000	62.1	21.1	17.2	29.6	2.48	8.5	11.8									
1000	63.1	21.5	18.3	30.0	2.51	8.6	12.0													

YT024 Part Load Performance Data

EWT	Flow	WPD		Part Load Heating							Part Load Cooling															
		PSI	FT	Aiflow	LAT (DB)	HC	HE	Power	COP	DH	Aiflow	TC	SC	LAT (DB)	HR	Power	EER	DH								
°F	GPM			CFM	°F	MBtuh	MBtuh	kW	W/W	MBtuh	CFM	°F	MBtuh	MBtuh	MBtuh	kW	Btuh/W	MBtuh								
25	4.0	3.2	7.4	670	87.1	12.3	8.8	1.03	3.50	3.2	Operation Not Recommended															
				750	85.3	12.4	8.9	1.02	3.57	3.0																
30	2.0	1.0	2.4	670	87.4	12.6	9.1	1.03	3.59	3.1																
				750	85.5	12.6	9.1	1.01	3.65	3.0																
	3.0	1.9	4.4	670	88.2	13.1	9.6	1.03	3.74	3.2																
				750	86.3	13.2	9.7	1.01	3.81	3.0																
	4.0	3.0	6.9	670	88.8	13.6	10.0	1.04	3.84	3.3																
				750	86.8	13.6	10.1	1.02	3.91	3.1																
40	2.0	0.9	2.2	670	89.9	14.4	10.8	1.03	4.07	3.3																
				750	87.8	14.4	10.9	1.02	4.15	3.1																
	3.0	1.7	4.0	670	90.8	15.0	11.5	1.04	4.24	3.4																
				750	88.6	15.1	11.6	1.02	4.32	3.2																
	4.0	2.7	6.3	670	91.5	15.5	12.0	1.04	4.36	3.5									670	24.0	16.2	57.7	25.9	0.58	41.2	1.6
				750	89.2	15.6	12.1	1.03	4.44	3.3									740	24.3	17.0	58.7	26.3	0.59	41.3	1.6
50	2.0	0.9	2.0	670	92.5	16.2	12.7	1.04	4.57	3.6									670	23.7	16.4	57.4	26.3	0.78	30.2	2.9
				750	90.1	16.3	12.8	1.03	4.65	3.4									740	24.0	17.2	58.5	26.7	0.79	30.3	2.9
	3.0	1.6	3.7	670	93.5	17.0	13.4	1.05	4.76	3.7									670	24.0	16.5	57.2	26.3	0.70	34.1	2.4
				750	91.0	17.0	13.5	1.03	4.85	3.5									740	24.3	17.4	58.3	26.7	0.71	34.2	2.4
	4.0	2.5	5.8	670	94.3	17.6	14.0	1.05	4.90	3.8									670	24.0	16.6	57.1	26.3	0.67	36.1	2.2
				750	91.7	17.6	14.1	1.04	4.98	3.6									740	24.4	17.4	58.2	26.7	0.67	36.2	2.2
60	2.0	0.8	1.9	670	95.5	18.5	14.9	1.05	5.15	4.1	670	22.8	16.0	57.9	25.9	0.90	25.3	3.8								
				750	92.9	18.5	15.0	1.03	5.25	3.8	740	23.1	16.8	59.0	26.2	0.91	25.3	3.8								
	3.0	1.5	3.5	670	96.7	19.3	15.7	1.06	5.36	4.2	670	23.0	16.1	57.7	25.8	0.81	28.5	3.2								
				750	93.9	19.4	15.8	1.04	5.47	4.0	740	23.4	17.0	58.8	26.2	0.82	28.6	3.3								
	4.0	2.3	5.4	670	97.6	20.0	16.4	1.06	5.52	4.3	670	23.1	16.2	57.6	25.7	0.77	30.2	2.9								
				750	94.7	20.0	16.5	1.04	5.62	4.1	740	23.5	17.0	58.7	26.1	0.77	30.3	3.0								
70	2.0	0.8	1.7	670	99.0	21.0	17.4	1.06	5.79	4.6	670	21.7	15.5	58.6	25.2	1.04	20.8	4.7								
				750	95.9	21.0	17.5	1.05	5.89	4.4	740	22.0	16.3	59.6	25.6	1.05	20.9	4.8								
	3.0	1.4	3.2	670	100.4	22.0	18.3	1.07	6.03	4.8	670	21.9	15.6	58.4	25.1	0.93	23.5	4.1								
				750	97.2	22.0	18.4	1.05	6.14	4.6	740	22.3	16.4	59.4	25.5	0.95	23.6	4.1								
	4.0	2.2	5.1	670	101.4	22.7	19.0	1.07	6.20	5.0	670	22.0	15.7	58.3	25.0	0.88	24.9	3.8								
				750	98.1	22.7	19.1	1.06	6.31	4.7	740	22.3	16.5	59.4	25.4	0.89	25.0	3.8								
80	2.0	0.7	1.6	670	102.6	23.6	19.9	1.08	6.42	5.3	670	20.6	15.1	59.2	24.7	1.21	17.0	5.8								
				750	99.2	23.6	20.0	1.06	6.54	5.0	740	20.9	15.9	60.2	25.0	1.22	17.1	5.9								
	3.0	1.3	3.1	670	104.1	24.7	21.0	1.08	6.69	5.5	670	20.8	15.2	59.0	24.5	1.08	19.2	5.0								
				750	100.5	24.7	21.1	1.06	6.81	5.2	740	21.1	16.0	60.0	24.9	1.09	19.3	5.1								
	4.0	2.1	4.8	670	105.2	25.5	21.8	1.09	6.88	5.7	670	20.9	15.3	58.9	24.4	1.02	20.4	4.7								
				750	101.5	25.5	21.9	1.07	7.01	5.4	740	21.2	16.0	59.9	24.7	1.04	20.4	4.7								
90	2.0	0.7	1.6	670	106.3	26.3	22.6	1.09	7.05	6.0	670	19.4	14.6	59.8	24.1	1.40	13.8	6.8								
				750	102.5	26.3	22.7	1.07	7.18	5.7	740	19.7	15.4	60.8	24.5	1.42	13.9	6.9								
	3.0	1.3	2.9	670	108.0	27.5	23.8	1.10	7.35	6.3	670	19.6	14.7	59.6	23.9	1.25	15.6	6.0								
				750	104.0	27.6	23.9	1.08	7.49	6.0	740	19.9	15.5	60.6	24.2	1.27	15.7	6.1								
	4.0	2.0	4.5	670	109.3	28.4	24.7	1.10	7.55	6.5	670	19.7	14.8	59.6	23.7	1.19	16.6	5.6								
				750	105.2	28.5	24.8	1.08	7.70	6.2	740	20.0	15.6	60.5	24.1	1.20	16.6	5.7								
100	2.0	0.6	1.4	Operation Not Recommended							670	17.9	14.0	60.7	23.5	1.62	11.1	7.9								
											740	18.2	14.7	61.6	23.8	1.64	11.1	8.1								
	3.0	1.2	2.7								670	18.1	14.1	60.5	23.1	1.45	12.5	7.0								
											740	18.4	14.8	61.4	23.5	1.47	12.5	7.2								
	4.0	1.8	4.2								670	18.2	14.2	60.4	22.9	1.38	13.2	6.6								
											740	18.5	14.9	61.4	23.2	1.39	13.3	6.7								
110	2.0	0.6	1.4								670	16.2	13.2	61.7	22.6	1.88	8.6	9.2								
											740	16.5	13.9	62.6	23.0	1.91	8.6	9.3								
	3.0	1.1	2.6								670	16.4	13.3	61.6	22.2	1.69	9.7	8.2								
											740	16.7	14.0	62.5	22.5	1.71	9.8	8.3								
	4.0	1.7	4.0								670	16.4	13.4	61.5	21.9	1.60	10.3	7.7								
											740	16.7	14.1	62.4	22.2	1.62	10.3	7.9								
120	2.0	0.6	1.3								670	14.5	12.7	62.5	21.9	2.18	6.7	10.6								
											740	14.7	13.3	63.3	22.3	2.20	6.7	10.8								
	3.0	1.1	2.4								670	14.7	12.8	62.3	21.3	1.95	7.5	9.6								
											740	14.9	13.5	63.2	21.7	1.98	7.6	9.7								
	4.0	1.6	3.8								670	14.7	12.8	62.3	21.0	1.85	8.0	9.0								
											740	15.0	13.5	63.1	21.3	1.87	8.0	9.2								

YT036 Full Load Performance Data

EWT	Flow	WPD		Full Load Heating							Full Load Cooling															
		PSI	FT	Aiffow	LAT (DB)	HC	HE	Power	COP	DH	Aiffow	LAT (DB)	TC	SC	HR	Power	EER	DH								
°F	GPM			CFM	°F	MBtuh	MBtuh	kW	W/W	Mbtuh	CFM	°F	MBtuh	MBtuh	MBtuh	kW	Btuh/W	Mbtuh								
25	9.0	3.4	7.9	1240	91.0	28.1	20.7	2.18	3.78	4.4	Operation not recommended															
				1380	89.3	28.7	21.3	2.17	3.88	4.3																
30	4.5	1.2	2.8	1240	90.9	28.0	20.6	2.2	3.8	4.5																
				1380	89.2	28.7	21.3	2.2	3.9	4.4																
	7.0	2.2	5.1	1240	92.0	29.5	22.0	2.20	3.93	4.7																
				1380	90.2	30.2	22.7	2.19	4.04	4.6																
9.0	3.2	7.3	1240	92.6	30.2	22.7	2.21	4.01	4.7																	
			1380	90.7	30.9	23.4	2.20	4.12	4.7																	
40	4.5	1.1	2.6	1240	94.0	32.2	24.5	2.25	4.20	5.0																
				1380	92.1	32.9	25.3	2.24	4.31	4.9																
	7.0	2.1	4.8	1240	95.3	33.9	26.1	2.28	4.36	5.2																
				1380	93.2	34.6	26.9	2.26	4.48	5.1																
9.0	2.9	6.8	1240	95.9	34.7	26.9	2.29	4.45	5.3	1280									57.4	47.7	31.3	53.3	1.65	28.9	2.0	
			1380	93.8	35.5	27.7	2.27	4.57	5.2	1420									58.3	49.0	33.2	54.8	1.69	28.9	2.1	
50	4.5	1.0	2.4	1240	97.3	36.5	28.5	2.34	4.57	5.6									1280	58.7	43.8	29.5	50.5	1.94	22.6	3.6
				1380	95.0	37.3	29.4	2.33	4.70	5.5									1420	59.6	45.1	31.4	51.9	1.99	22.6	3.6
	7.0	1.9	4.5	1240	98.7	38.4	30.3	2.37	4.74	5.9									1280	58.5	44.6	29.7	50.8	1.82	24.4	3.0
				1380	96.4	39.3	31.2	2.36	4.88	5.8									1420	59.4	45.8	31.6	52.2	1.87	24.5	3.1
9.0	2.8	6.4	1240	99.4	39.3	31.2	2.38	4.84	6.0	1280									58.5	44.8	29.7	50.9	1.78	25.2	2.8	
			1380	97.0	40.2	32.1	2.37	4.97	5.9	1420									59.4	46.1	31.6	52.3	1.83	25.2	2.9	
60	4.5	1.0	2.3	1240	100.6	41.0	32.6	2.45	4.90	6.3									1280	58.9	42.7	29.1	49.9	2.10	20.4	4.7
				1380	98.1	41.9	33.6	2.44	5.03	6.2									1420	59.8	43.9	31.0	51.3	2.16	20.4	4.7
	7.0	1.8	4.2	1240	102.2	43.1	34.6	2.48	5.09	6.6									1280	58.8	43.4	29.4	50.2	1.97	22.0	4.0
				1380	99.6	44.1	35.7	2.47	5.23	6.5									1420	59.7	44.7	31.2	51.6	2.03	22.0	4.1
9.0	2.6	6.0	1240	103.0	44.1	35.6	2.49	5.19	6.7	1280	58.8	43.7	29.4	50.3	1.93	22.7	3.8									
			1380	100.3	45.1	36.7	2.48	5.33	6.6	1420	59.7	44.9	31.2	51.7	1.98	22.7	3.8									
70	4.5	0.9	2.1	1240	104.0	45.5	36.7	2.58	5.18	7.1	1280	59.2	41.5	28.7	49.3	2.28	18.2	5.8								
				1380	101.2	46.5	37.8	2.56	5.32	6.9	1420	60.1	42.7	30.5	50.6	2.34	18.2	5.9								
	7.0	1.7	4.0	1240	105.8	47.9	39.0	2.61	5.38	7.4	1280	59.1	42.2	28.9	49.5	2.14	19.7	5.0								
				1380	102.9	49.0	40.1	2.60	5.53	7.3	1420	60.0	43.3	30.7	50.9	2.20	19.7	5.1								
9.0	2.4	5.6	1240	106.6	49.0	40.1	2.62	5.49	7.5	1280	59.1	42.4	28.9	49.6	2.09	20.3	4.7									
			1380	103.7	50.2	41.3	2.61	5.64	7.4	1420	60.0	43.6	30.7	51.0	2.15	20.3	4.8									
80	4.5	0.9	2.0	1240	107.4	50.1	40.8	2.71	5.42	7.9	1280	59.8	39.6	27.9	48.1	2.49	15.9	7.1								
				1380	104.4	51.2	42.0	2.69	5.57	7.8	1420	60.7	40.8	29.6	49.5	2.55	16.0	7.1								
	7.0	1.6	3.8	1240	109.3	52.7	43.3	2.74	5.63	8.3	1280	59.7	40.3	28.1	48.3	2.34	17.2	6.2								
				1380	106.1	53.9	44.6	2.73	5.79	8.1	1420	60.5	41.4	29.9	49.6	2.40	17.3	6.2								
9.0	2.3	5.4	1240	110.3	53.9	44.6	2.75	5.75	8.4	1280	59.7	40.5	28.1	48.3	2.28	17.8	5.8									
			1380	107.0	55.2	45.8	2.74	5.91	8.3	1420	60.5	41.7	29.9	49.7	2.34	17.8	5.9									
90	4.5	0.8	1.9	1240	110.8	54.6	44.9	2.84	5.63	8.8	1280	60.5	37.4	26.9	46.7	2.73	13.7	8.4								
				1380	107.5	55.8	46.2	2.83	5.79	8.6	1420	61.3	38.5	28.6	48.0	2.80	13.7	8.5								
	7.0	1.6	3.6	1240	112.9	57.4	47.6	2.88	5.85	9.2	1280	60.4	38.0	27.2	46.8	2.56	14.9	7.4								
				1380	109.4	58.7	49.0	2.86	6.01	9.0	1420	61.2	39.1	28.9	48.1	2.63	14.9	7.5								
9.0	2.2	5.1	1240	113.9	58.8	49.0	2.89	5.97	9.3	1280	60.4	38.3	27.2	46.8	2.50	15.3	7.0									
			1380	110.4	60.2	50.3	2.88	6.13	9.2	1420	61.2	39.4	28.9	48.1	2.57	15.3	7.1									
100	4.5	0.8	1.8	Operation not recommended							1280	61.1	35.2	26.1	45.5	3.00	11.7	9.9								
											1420	61.9	36.2	27.7	46.7	3.08	11.8	10.0								
	7.0	1.4	3.3								1280	61.0	35.8	26.3	45.4	2.82	12.7	8.8								
											1420	61.8	36.8	27.9	46.7	2.90	12.7	8.9								
9.0	2.0	4.7	1280								61.0	36.0	26.3	45.4	2.75	13.1	8.3									
			1420								61.8	37.0	27.9	46.7	2.83	13.1	8.4									
110	4.5	0.8	1.7								1280	61.8	32.9	25.1	44.2	3.32	9.9	11.4								
											1420	62.6	33.8	26.7	45.4	3.41	9.9	11.5								
	7.0	1.4	3.2								1280	61.7	33.4	25.3	44.1	3.12	10.7	10.2								
											1420	62.4	34.4	26.9	45.3	3.20	10.7	10.3								
9.0	2.0	4.5	1280								61.7	33.6	25.3	44.0	3.04	11.1	9.7									
			1420								62.4	34.6	26.9	45.2	3.12	11.1	9.8									
120	4.5	0.7	1.7								1280	63.2	29.2	23.2	41.7	3.68	7.9	12.7								
											1420	63.9	30.0	24.6	42.9	3.78	7.9	12.8								
	7.0	1.3	3.1								1280	63.1	29.6	23.3	41.4	3.46	8.6	11.4								
											1420	63.8	30.5	24.8	42.6	3.55	8.6	11.5								
9.0	1.9	4.3	1280								63.1	29.8	23.4	41.3	3.38	8.8	10.9									
			1420								63.8	30.7	24.8	42.5	3.47	8.8	11.0									

YT036 Part Load Performance Data

EWT	Flow	WPD		Part Load Heating							Part Load Cooling															
		PSI	FT	Aiflow	LAT (DB)	HC	HE	Power	COP	DH	Aiflow	TC	SC	LAT (DB)	HR	Power	EER	DH								
°F	GPM			CFM	°F	MBtuh	MBtuh	kW	W/W	Mbtuh	CFM	°F	MBtuh	MBtuh	MBtuh	kW	Btuh/W	Mbtuh								
25	6.0	1.8	4.2	1030	86.6	18.5	13.0	1.59	3.40	3.2	Operation Not Recommended															
				1130	85.1	18.5	13.0	1.60	3.38	3.1																
30	3.0	0.8	1.8	1030	86.7	18.5	13.1	1.59	3.41	3.4																
				1130	85.2	18.5	13.1	1.60	3.40	3.3																
	4.5	1.2	2.8	1030	87.4	19.4	14.0	1.59	3.57	3.5																
				1130	85.9	19.4	14.0	1.60	3.55	3.4																
6.0	1.7	3.9	1030	88.1	20.1	14.7	1.60	3.69	3.5																	
			1130	86.5	20.2	14.7	1.61	3.67	3.4																	
40	3.0	0.7	1.7	1030	89.7	21.9	16.5	1.59	4.03	3.6																
				1130	88.0	21.9	16.5	1.60	4.01	3.5																
	4.5	1.1	2.6	1030	90.7	23.0	17.5	1.60	4.22	3.7																
				1130	88.8	23.0	17.5	1.61	4.20	3.6																
6.0	1.6	3.7	1030	91.4	23.8	18.4	1.60	4.36	3.8	1010									35.9	24.1	57.9	39.0	0.91	39.4	1.2	
			1130	89.5	23.9	18.4	1.61	4.33	3.7	1130									36.8	25.7	59.0	39.9	0.93	39.5	1.2	
50	3.0	0.7	1.6	1030	92.8	25.3	19.8	1.61	4.62	3.9									1010	32.6	22.5	59.4	36.4	1.11	29.5	2.5
				1130	90.8	25.3	19.8	1.62	4.60	3.8									1130	33.4	23.9	60.4	37.3	1.13	29.6	2.6
	4.5	1.1	2.4	1030	93.8	26.5	21.0	1.61	4.84	4.1									1010	33.0	22.6	59.3	36.5	1.02	32.4	2.1
				1130	91.8	26.6	21.0	1.62	4.81	4.0									1130	33.8	24.1	60.3	37.4	1.04	32.5	2.1
6.0	1.5	3.5	1030	94.7	27.5	22.0	1.62	4.99	4.1	1010									33.3	22.7	59.2	36.7	0.98	33.9	1.9	
			1130	92.6	27.6	22.0	1.63	4.97	4.1	1130									34.2	24.2	60.2	37.6	1.00	34.0	1.9	
60	3.0	0.7	1.5	1030	95.7	28.6	23.1	1.63	5.15	4.4									1010	31.5	22.2	59.7	35.8	1.25	25.2	3.4
				1130	93.5	28.6	23.1	1.64	5.13	4.3									1130	32.3	23.7	60.6	36.7	1.28	25.3	3.5
	4.5	1.0	2.3	1030	96.9	30.0	24.4	1.63	5.39	4.5									1010	31.9	22.3	59.5	35.8	1.15	27.7	2.9
				1130	94.6	30.0	24.4	1.64	5.36	4.4									1130	32.7	23.8	60.5	36.7	1.18	27.8	2.9
6.0	1.4	3.3	1030	98.0	31.1	25.5	1.64	5.56	4.6	1010	32.2	22.4	59.5	36.0	1.11	28.9	2.6									
			1130	95.5	31.1	25.5	1.65	5.54	4.5	1130	33.0	23.9	60.4	36.9	1.14	29.1	2.7									
70	3.0	0.6	1.5	1030	98.7	31.9	26.3	1.65	5.67	4.9	1010	30.4	21.9	59.9	35.3	1.45	21.0	4.4								
				1130	96.2	31.9	26.3	1.66	5.64	4.8	1130	31.2	23.3	60.9	36.2	1.48	21.1	4.4								
	4.5	1.0	2.2	1030	100.1	33.4	27.8	1.65	5.93	5.1	1010	30.7	22.0	59.8	35.3	1.33	23.1	3.8								
				1130	97.4	33.5	27.8	1.66	5.90	5.0	1130	31.5	23.5	60.8	36.1	1.36	23.2	3.8								
6.0	1.4	3.1	1030	101.2	34.7	29.0	1.66	6.12	5.2	1010	31.0	22.1	59.7	35.4	1.29	24.1	3.4									
			1130	98.5	34.7	29.0	1.67	6.10	5.1	1130	31.8	23.6	60.7	36.3	1.31	24.2	3.5									
80	3.0	0.6	1.4	1030	101.8	35.4	29.7	1.66	6.24	5.4	1010	28.8	21.2	60.5	34.5	1.67	17.2	5.4								
				1130	99.0	35.4	29.7	1.67	6.21	5.3	1130	29.5	22.6	61.4	35.3	1.71	17.3	5.5								
	4.5	0.9	2.1	1030	103.3	37.1	31.4	1.66	6.53	5.7	1010	29.1	21.4	60.4	34.3	1.54	18.9	4.8								
				1130	100.4	37.1	31.4	1.67	6.50	5.6	1130	29.8	22.8	61.3	35.2	1.57	19.0	4.8								
6.0	1.3	3.0	1030	104.6	38.5	32.7	1.67	6.74	5.8	1010	29.4	21.5	60.3	34.5	1.49	19.8	4.4									
			1130	101.5	38.5	32.8	1.68	6.71	5.7	1130	30.1	22.9	61.3	35.3	1.52	19.9	4.4									
90	3.0	0.6	1.3	1030	104.9	38.8	33.1	1.67	6.82	6.0	1010	27.0	20.5	61.2	33.5	1.91	14.1	6.6								
				1130	101.8	38.9	33.1	1.68	6.79	5.9	1130	27.6	21.8	62.1	34.3	1.95	14.2	6.7								
	4.5	0.9	2.0	1030	106.6	40.7	35.0	1.67	7.14	6.3	1010	27.2	20.6	61.1	33.3	1.76	15.5	5.8								
				1130	103.4	40.7	35.0	1.68	7.10	6.2	1130	27.9	22.0	62.0	34.1	1.80	15.5	5.9								
6.0	1.2	2.9	1030	107.9	42.2	36.5	1.68	7.37	6.5	1010	27.5	20.7	61.0	33.3	1.70	16.2	5.4									
			1130	104.6	42.3	36.5	1.69	7.33	6.3	1130	28.2	22.0	61.9	34.1	1.73	16.3	5.5									
100	3.0	0.5	1.3	Operation Not Recommended							1010	25.2	19.8	61.8	32.5	2.15	11.7	7.8								
											1130	25.9	21.1	62.7	33.3	2.19	11.8	7.9								
	4.5	0.8	1.8								1010	25.5	19.9	61.7	32.2	1.98	12.9	7.0								
											1130	26.1	21.3	62.6	33.0	2.02	12.9	7.1								
6.0	1.1	2.6	1010								25.8	20.0	61.6	32.3	1.91	13.5	6.5									
			1130								26.4	21.4	62.5	33.1	1.95	13.5	6.6									
110	3.0	0.5	1.2								1010	23.4	19.1	62.5	31.5	2.37	9.9	9.0								
											1130	24.0	20.4	63.3	32.2	2.42	9.9	9.2								
	4.5	0.8	1.8								1010	23.6	19.2	62.4	31.1	2.18	10.9	8.1								
											1130	24.2	20.5	63.2	31.8	2.22	10.9	8.3								
6.0	1.1	2.5	1010								23.9	19.3	62.3	31.1	2.10	11.4	7.6									
			1130								24.5	20.6	63.1	31.8	2.15	11.4	7.7									
120	3.0	0.5	1.2								1010	20.3	17.4	64.1	29.0	2.55	8.0	10.1								
											1130	20.8	18.5	64.8	29.7	2.60	8.0	10.3								
	4.5	0.7	1.7								1010	20.5	17.5	64.0	28.5	2.35	8.7	9.2								
											1130	21.0	18.6	64.7	29.2	2.40	8.8	9.3								
6.0	1.1	2.5	1010								20.7	17.6	63.9	28.5	2.26	9.2	8.7									
			1130								21.3	18.7	64.7	29.1	2.31	9.2	8.8									

YT048 Full Load Performance Data

EWT	Flow	WPD		Full Load Heating							Full Load Cooling							
		PSI	FT	Aiflow	LAT (DB)	HC	HE	Power	COP	DH	Aiflow	LAT (DB)	TC	SC	HR	Power	EER	DH
°F	GPM			CFM	°F	MBtuh	MBtuh	kW	W/W	Mbtuh	CFM	°F	MBtuh	MBtuh	MBtuh	kW	Btuh/W	Mbtuh
25	12.0	5.1	11.8	1600	91.7	37.5	27.1	3.05	3.60	6.0	Operation Not Recommended							
				1790	89.5	37.7	27.4	3.02	3.66	5.8								
30	6.0	2.1	4.8	1600	92.1	38.2	27.8	3.1	3.7	6.1								
				1790	89.9	38.5	28.2	3.0	3.7	5.9								
	9.0	3.2	7.3	1600	93.0	39.8	29.3	3.07	3.80	6.2								
				1790	90.7	40.1	29.7	3.04	3.86	6.0								
40	12.0	4.8	11.0	1600	93.3	40.2	29.7	3.08	3.83	6.3								
				1790	91.0	40.5	30.1	3.05	3.89	6.1								
	6.0	2.0	4.5	1600	95.1	43.4	32.7	3.15	4.04	6.6								
				1790	92.6	43.7	33.1	3.12	4.11	6.5								
50	9.0	3.0	6.9	1600	96.2	45.2	34.4	3.16	4.19	6.8								
				1790	93.6	45.5	34.9	3.13	4.26	6.6								
	12.0	4.5	10.4	1600	96.5	45.7	34.9	3.17	4.22	6.9								
				1790	93.8	46.0	35.3	3.14	4.30	6.7								
60	6.0	1.9	4.3	1600	98.2	48.7	37.6	3.25	4.40	7.3								
				1790	95.4	49.0	38.1	3.21	4.47	7.1								
	9.0	2.9	6.6	1600	99.3	50.7	39.6	3.26	4.56	7.5								
				1790	96.4	51.0	40.0	3.23	4.64	7.3								
70	12.0	4.3	10.0	1600	99.6	51.2	40.1	3.27	4.59	7.6								
				1790	96.7	51.6	40.5	3.24	4.67	7.4								
	6.0	1.8	4.1	1600	101.3	54.2	42.7	3.35	4.74	8.0								
				1790	98.2	54.5	43.2	3.31	4.82	7.8								
80	9.0	2.8	6.4	1600	102.6	56.4	44.9	3.36	4.92	8.2								
				1790	99.4	56.8	45.4	3.33	5.00	8.0								
	12.0	4.2	9.6	1600	103.0	57.0	45.5	3.37	4.96	8.3								
				1790	99.7	57.4	46.0	3.34	5.04	8.1								
90	6.0	1.7	4.0	1600	104.8	60.0	48.2	3.48	5.06	8.8								
				1790	101.3	60.5	48.7	3.44	5.15	8.6								
	9.0	2.7	6.2	1600	106.2	62.5	50.6	3.49	5.25	9.0								
				1790	102.6	62.9	51.2	3.45	5.34	8.8								
100	12.0	4.0	9.3	1600	106.6	63.2	51.2	3.50	5.29	9.2								
				1790	102.9	63.6	51.8	3.47	5.38	9.0								
	6.0	1.7	3.9	1600	108.4	66.3	53.9	3.65	5.33	9.8								
				1790	104.6	66.8	54.5	3.61	5.42	9.6								
110	9.0	2.6	6.0	1600	110.0	69.1	56.6	3.66	5.53	10.1								
				1790	106.0	69.5	57.2	3.62	5.63	9.9								
	12.0	3.9	9.0	1600	110.4	69.8	57.3	3.67	5.57	10.3								
				1790	106.4	70.3	57.9	3.64	5.67	10.0								
120	6.0	1.7	3.8	1600	112.2	72.8	59.8	3.83	5.57	11.0								
				1790	107.9	73.3	60.4	3.79	5.67	10.7								
	9.0	2.6	5.9	1600	113.9	75.8	62.7	3.84	5.78	11.3								
				1790	109.5	76.3	63.4	3.81	5.88	11.0								
130	12.0	3.8	8.9	1600	114.3	76.6	63.5	3.86	5.82	11.5								
				1790	109.9	77.1	64.1	3.82	5.92	11.2								
	6.0	1.7	3.8	Operation Not Recommended							1540	60.1	44.1	33.1	57.6	3.96	11.1	11.9
											1710	61.3	44.8	34.5	58.7	4.08	11.0	12.0
9.0	2.5	5.9	1540								60.1	44.5	33.1	57.3	3.74	11.9	10.7	
			1710								61.3	45.2	34.5	58.4	3.86	11.7	10.8	
140	12.0	3.8	8.7								1540	60.1	45.0	33.2	57.3	3.62	12.4	10.1
											1710	61.3	45.7	34.6	58.4	3.73	12.3	10.2
	6.0	1.7	3.8								1540	60.6	41.6	32.3	56.7	4.42	9.4	13.7
											1710	61.8	42.3	33.6	57.8	4.55	9.3	13.9
150	9.0	2.5	5.9								1540	60.6	42.0	32.3	56.2	4.17	10.1	12.4
											1710	61.8	42.7	33.6	57.3	4.30	9.9	12.6
	12.0	3.8	8.8								1540	60.6	42.5	32.3	56.2	4.03	10.5	11.7
											1710	61.8	43.1	33.7	57.3	4.15	10.4	11.9
160	6.0	1.7	3.9								1540	61.7	36.6	30.4	53.5	4.94	7.4	15.3
											1710	62.9	37.2	31.7	54.6	5.09	7.3	15.5
	9.0	2.6	5.9								1540	61.7	37.0	30.4	52.9	4.66	7.9	13.9
											1710	62.8	37.6	31.7	54.0	4.80	7.8	14.1
12.0	3.8	8.8	1540								61.7	37.4	30.5	52.8	4.51	8.3	13.1	
			1710								62.8	38.0	31.7	53.8	4.64	8.2	13.3	

YT048 Part Load Performance Data

EWT °F	Flow GPM	WPD		Part Load Heating							Part Load Cooling							
		PSI	FT	Aiflow CFM	LAT (DB) °F	HC MBtuh	HE MBtuh	Power kW	COP W/W	DH Mbtuh	Aiflow CFM	TC °F	SC MBtuh	LAT (DB) MBtuh	HR MBtuh	Power kW	EER Btuh/W	DH Mbtuh
25	8.0	2.6	5.9	1280	89.4	26.8	18.8	2.35	3.35	4.7	Operation Not Recommended							
				1420	87.6	26.9	19.1	2.31	3.42	4.7								
30	4.0	1.5	3.4	1280	89.4	26.8	18.8	2.35	3.35	4.7								
				1420	87.6	26.9	19.0	2.31	3.42	4.6								
	6.0	2.0	4.5	1280	90.3	28.1	20.1	2.35	3.51	4.7								
				1420	88.4	28.2	20.3	2.31	3.58	4.7								
8.0	2.5	5.7	1280	90.8	28.8	20.8	2.36	3.58	4.8									
			1420	88.9	28.9	21.0	2.32	3.66	4.8									
40	4.0	1.4	3.3	1280	92.2	30.7	22.6	2.36	3.82	5.0								
				1420	90.1	30.8	22.9	2.32	3.89	4.9								
	6.0	1.9	4.4	1280	93.3	32.2	24.1	2.36	4.00	5.1								
				1420	91.1	32.3	24.4	2.32	4.08	5.1								
8.0	2.4	5.5	1280	93.8	33.0	24.9	2.37	4.08	5.2									
			1420	91.6	33.1	25.2	2.33	4.16	5.2									
50	4.0	1.4	3.3	1280	95.0	34.6	26.5	2.37	4.29	5.3								
				1420	92.7	34.8	26.8	2.33	4.37	5.3								
	6.0	1.9	4.3	1280	96.2	36.3	28.2	2.37	4.49	5.5								
				1420	93.8	36.5	28.5	2.33	4.58	5.5								
8.0	2.3	5.4	1280	96.9	37.2	29.1	2.38	4.59	5.6									
			1420	94.4	37.4	29.4	2.34	4.68	5.6									
60	4.0	1.4	3.2	1280	98.0	38.6	30.5	2.38	4.76	5.8								
				1420	95.3	38.8	30.8	2.35	4.85	5.8								
	6.0	1.8	4.2	1280	99.3	40.5	32.4	2.38	4.99	6.0								
				1420	96.5	40.7	32.7	2.35	5.08	6.0								
8.0	2.3	5.3	1280	100.0	41.5	33.4	2.39	5.09	6.1									
			1420	97.2	41.7	33.7	2.36	5.19	6.1									
70	4.0	1.4	3.2	1280	101.0	42.9	34.7	2.40	5.25	6.3								
				1420	98.1	43.1	35.1	2.36	5.35	6.3								
	6.0	1.8	4.2	1280	102.5	45.0	36.8	2.40	5.50	6.6								
				1420	99.5	45.2	37.1	2.36	5.61	6.5								
8.0	2.3	5.3	1280	103.4	46.1	37.9	2.41	5.62	6.7									
			1420	100.2	46.3	38.2	2.37	5.73	6.7									
80	4.0	1.4	3.2	1280	104.3	47.5	39.3	2.41	5.78	7.1								
				1420	101.1	47.7	39.6	2.37	5.90	7.0								
	6.0	1.8	4.2	1280	106.0	49.8	41.6	2.41	6.06	7.3								
				1420	102.6	50.0	41.9	2.37	6.18	7.3								
8.0	2.3	5.2	1280	106.9	51.0	42.8	2.42	6.19	7.5									
			1420	103.4	51.3	43.1	2.38	6.31	7.5									
90	4.0	1.4	3.1	1280	107.7	52.1	43.9	2.42	6.33	7.9								
				1420	104.2	52.4	44.3	2.38	6.45	7.9								
	6.0	1.8	4.1	1280	109.5	54.7	46.4	2.42	6.63	8.2								
				1420	105.8	54.9	46.8	2.38	6.76	8.2								
8.0	2.2	5.2	1280	110.5	56.0	47.8	2.43	6.77	8.4									
			1420	106.7	56.3	48.1	2.39	6.90	8.4									
100	4.0	1.3	3.1	Operation Not Recommended							1380	32.6	27.3	61.7	42.9	3.03	10.8	10.0
											1530	33.1	28.6	62.7	43.9	3.17	10.4	10.1
	6.0	1.8	4.2								1380	33.2	27.4	61.6	42.5	2.74	12.1	8.9
											1530	33.7	28.7	62.6	43.5	2.87	11.7	9.0
8.0	2.2	5.1	1380								33.5	27.5	61.6	42.6	2.64	12.7	8.3	
			1530								34.1	28.8	62.6	43.5	2.77	12.3	8.4	
110	4.0	1.3	3.1								1380	30.4	26.4	62.3	42.1	3.45	8.8	11.5
											1530	30.8	27.7	63.2	43.2	3.62	8.5	11.6
	6.0	1.8	4.2								1380	30.9	26.5	62.2	41.5	3.12	9.9	10.3
											1530	31.4	27.7	63.2	42.5	3.27	9.6	10.4
8.0	2.2	5.0	1380								31.2	26.6	62.2	41.5	3.01	10.4	9.6	
			1530								31.7	27.8	63.2	42.5	3.16	10.1	9.8	
120	4.0	1.3	3.1								1380	26.7	24.8	63.3	40.1	3.93	6.8	12.8
											1530	27.1	26.0	64.2	41.2	4.12	6.6	13.0
	6.0	1.8	4.2								1380	27.1	24.9	63.3	39.3	3.55	7.6	11.6
											1530	27.6	26.1	64.2	40.3	3.73	7.4	11.7
8.0	2.2	5.0	1380								27.5	25.0	63.2	39.1	3.43	8.0	10.9	
			1530								27.9	26.2	64.2	40.2	3.60	7.8	11.0	

YT060 Full Load Performance Data

EWT	Flow	WPD		Full Load Heating							Full Load Cooling							
		PSI	FT	Aiflow	LAT (DB)	HC	HE	Power	COP	DH	Aiflow	LAT (DB)	TC	SC	HR	Power	EER	DH
°F	GPM			CFM	°F	MBtuh	MBtuh	kW	W/W	MBtuh	CFM	°F	MBtuh	MBtuh	MBtuh	kW	Btuh/W	MBtuh
25	15.0	4.0	9.2	1750	94.1	45.5	32.9	3.69	3.62	9.4	Operation Not Recommended							
				1960	91.6	45.8	33.4	3.65	3.68	8.9								
30	7.5	1.9	4.3	1750	94.2	45.7	33.2	3.7	3.7	9.3								
				1960	91.8	46.0	33.7	3.6	3.7	8.8								
	11.5	2.9	6.7	1750	95.4	48.1	35.4	3.70	3.81	9.5								
				1960	92.9	48.4	35.9	3.65	3.88	9.0								
40	15.0	3.9	8.9	1750	95.9	49.0	36.2	3.73	3.85	9.7								
				1960	93.3	49.3	36.7	3.69	3.92	9.2								
	7.5	1.8	4.2	1750	97.4	51.8	39.0	3.75	4.05	9.9								
				1960	94.6	52.1	39.5	3.71	4.12	9.3								
50	11.5	2.8	6.5	1750	98.8	54.4	41.5	3.78	4.22	10.2								
				1960	95.9	54.8	42.1	3.73	4.30	9.6								
	15.0	3.7	8.6	1750	99.3	55.4	42.4	3.81	4.27	10.5								
				1960	96.4	55.8	43.0	3.76	4.35	9.8								
60	7.5	1.8	4.1	1750	100.8	58.3	45.1	3.87	4.41	10.9								
				1960	97.7	58.7	45.6	3.83	4.49	10.2								
	11.5	2.7	6.3	1750	102.4	61.2	47.9	3.90	4.60	11.2								
				1960	99.1	61.7	48.5	3.86	4.69	10.5								
70	15.0	3.6	8.4	1750	103.0	62.4	49.0	3.93	4.65	11.5								
				1960	99.7	62.8	49.6	3.89	4.74	10.8								
	7.5	1.7	4.0	1750	104.6	65.5	51.6	4.06	4.73	12.1								
				1960	101.2	65.9	52.3	4.01	4.82	11.4								
80	11.5	2.7	6.2	1750	106.4	68.8	54.9	4.09	4.94	12.5								
				1960	102.7	69.3	55.5	4.04	5.03	11.8								
	15.0	3.6	8.2	1750	107.1	70.1	56.0	4.12	4.99	12.8								
				1960	103.4	70.6	56.7	4.07	5.08	12.1								
90	7.5	1.7	3.9	1750	108.6	73.0	58.4	4.28	5.00	13.6								
				1960	104.8	73.6	59.1	4.24	5.09	12.8								
	11.5	2.6	6.1	1750	110.6	76.8	62.0	4.32	5.21	14.1								
				1960	106.5	77.3	62.8	4.27	5.31	13.2								
100	15.0	3.5	8.1	1750	111.4	78.2	63.4	4.35	5.27	14.4								
				1960	107.2	78.8	64.1	4.30	5.37	13.6								
	7.5	1.7	3.9	1750	112.6	80.6	65.1	4.54	5.21	15.2								
				1960	108.3	81.2	65.9	4.48	5.31	14.3								
110	11.5	2.6	6.0	1750	114.8	84.7	69.1	4.57	5.43	15.7								
				1960	110.3	85.3	69.9	4.52	5.53	14.8								
	15.0	3.5	8.0	1750	115.7	86.3	70.6	4.61	5.49	16.1								
				1960	111.1	86.9	71.4	4.56	5.59	15.2								
120	7.5	1.7	3.8	1750	116.7	88.2	71.8	4.80	5.39	16.8								
				1960	112.0	88.8	72.6	4.74	5.49	15.9								
	11.5	2.6	5.9	1750	119.0	92.7	76.2	4.83	5.62	17.4								
				1960	114.1	93.3	77.0	4.78	5.73	16.4								
130	15.0	3.4	7.9	1750	120.0	94.4	77.8	4.87	5.68	17.8								
				1960	114.9	95.1	78.7	4.82	5.78	16.8								
	7.5	1.6	3.7	Operation Not Recommended							1770	59.7	55.5	38.8	71.7	4.75	11.7	16.9
											1960	60.7	57.1	40.9	73.9	4.94	11.6	17.1
11.5	2.5	5.8	1770								59.5	56.4	39.2	71.6	4.46	12.6	15.1	
			1960								60.5	58.0	41.3	73.8	4.63	12.5	15.3	
140	15.0	3.4	7.8								1770	59.4	56.7	39.3	71.5	4.33	13.1	14.2
											1960	60.4	58.3	41.4	73.7	4.49	13.0	14.4
	7.5	1.6	3.7								1770	60.6	51.7	37.0	69.8	5.28	9.8	19.4
											1960	61.6	53.2	39.0	71.9	5.49	9.7	19.6
150	11.5	2.5	5.8								1770	60.5	52.6	37.3	69.5	4.96	10.6	17.5
											1960	61.4	54.0	39.4	71.6	5.15	10.5	17.6
	15.0	3.3	7.7								1770	60.4	52.9	37.5	69.3	4.81	11.0	16.5
											1960	61.3	54.4	39.5	71.4	5.00	10.9	16.7
160	7.5	1.6	3.7								1770	61.4	47.1	35.6	67.2	5.91	8.0	21.7
											1960	62.3	48.4	37.6	69.3	6.14	7.9	21.9
	11.5	2.5	5.7								1770	61.2	47.8	36.0	66.7	5.55	8.6	19.6
											1960	62.1	49.1	37.9	68.8	5.76	8.5	19.8
15.0	3.3	7.6	1770								61.1	48.1	36.1	66.5	5.38	8.9	18.6	
			1960								62.0	49.4	38.0	68.5	5.59	8.8	18.8	

YT060 Part Load Performance Data

EWT °F	Flow GPM	WPD		Part Load Heating							Part Load Cooling									
		PSI	FT	Aiflow CFM	LAT (DB) °F	HC MBtuh	HE MBtuh	Power kW	COP W/W	DH MBtuh	Aiflow CFM	TC °F	SC MBtuh	LAT (DB) MBtuh	HR MBtuh	Power kW	EER Btuh/W	DH MBtuh		
25	10.0	2.5	5.7	1500	89.4	31.5	22.4	2.67	3.46	7.0	Operation Not Recommended									
				1680	87.4	31.7	22.6	2.65	3.50	6.6										
30	5.0	0.8	1.8	1500	89.4	31.5	22.5	2.64	3.50	6.9										
				1680	87.5	31.7	22.7	2.62	3.54	6.6										
	7.5	1.7	4.0	1500	90.3	32.9	23.8	2.65	3.63	7.1										
				1680	88.2	33.1	24.1	2.64	3.68	6.7										
	10.0	2.4	5.6	1500	90.9	33.9	24.8	2.68	3.71	7.2										
				1680	88.8	34.1	25.0	2.66	3.76	6.8										
40	5.0	0.7	1.7	1500	92.2	35.9	26.8	2.65	3.97	7.2										
				1680	89.9	36.1	27.1	2.63	4.02	6.9										
	7.5	1.7	3.9	1500	93.1	37.4	28.4	2.66	4.12	7.4										
				1680	90.8	37.7	28.6	2.65	4.17	7.0										
	10.0	2.3	5.4	1500	93.9	38.6	29.5	2.69	4.21	7.6										
				1680	91.4	38.9	29.7	2.67	4.27	7.2										
50	5.0	0.7	1.6	1500	95.1	40.7	31.6	2.67	4.47	7.8										
				1680	92.6	41.0	31.9	2.65	4.52	7.4										
	7.5	1.6	3.7	1500	96.2	42.5	33.3	2.69	4.64	8.0										
				1680	93.6	42.7	33.6	2.67	4.69	7.6										
	10.0	2.3	5.2	1500	97.1	43.9	34.6	2.71	4.74	8.2										
				1680	94.3	44.1	34.9	2.69	4.80	7.7										
60	5.0	0.7	1.6	1500	98.5	46.2	36.9	2.71	5.00	8.6										
				1680	95.6	46.4	37.3	2.69	5.06	8.1										
	7.5	1.6	3.6	1500	99.7	48.2	38.9	2.72	5.19	8.9										
				1680	96.7	48.4	39.2	2.71	5.25	8.4										
	10.0	2.2	5.1	1500	100.7	49.7	40.3	2.75	5.31	9.1										
				1680	97.6	50.0	40.7	2.73	5.37	8.6										
70	5.0	0.7	1.6	1500	102.0	51.9	42.5	2.75	5.52	9.6										
				1680	98.8	52.2	42.9	2.74	5.59	9.1										
	7.5	1.5	3.6	1500	103.4	54.1	44.7	2.77	5.73	9.9										
				1680	100.0	54.5	45.1	2.75	5.80	9.4										
	10.0	2.2	5.0	1500	104.5	55.9	46.3	2.79	5.87	10.2										
				1680	101.0	56.2	46.7	2.77	5.94	9.6										
80	5.0	0.7	1.5	1500	105.5	57.6	48.0	2.80	6.03	10.7										
				1680	101.9	57.9	48.4	2.78	6.10	10.2										
	7.5	1.5	3.5	1500	107.1	60.1	50.5	2.82	6.25	11.1										
				1680	103.3	60.4	50.9	2.80	6.33	10.5										
	10.0	2.1	4.9	1500	108.3	62.0	52.3	2.84	6.40	11.4										
				1680	104.4	62.3	52.7	2.82	6.48	10.8										
90	5.0	0.6	1.5	1500	109.0	63.2	53.5	2.85	6.51	11.9										
				1680	105.0	63.6	53.9	2.83	6.59	11.3										
	7.5	1.5	3.4	1500	110.7	66.0	56.2	2.86	6.76	12.3										
				1680	106.6	66.3	56.6	2.84	6.84	11.6										
	10.0	2.1	4.7	1500	112.0	68.1	58.2	2.89	6.91	12.6										
				1680	107.7	68.5	58.7	2.87	7.00	11.9										
100	5.0	0.6	1.4	Operation Not Recommended							1450	41.0	32.0	59.6	53.2	3.59	11.4	14.4		
											1610	41.7	33.5	60.7	54.4	3.73	11.2	14.5		
	7.5	1.4	3.2								1450	41.8	32.3	59.4	52.9	3.25	12.9	12.9		
											1610	42.6	33.9	60.5	54.1	3.38	12.6	13.0		
	10.0	1.9	4.5								1450	42.2	32.4	59.3	52.9	3.13	13.5	12.1		
											1610	42.9	33.9	60.5	54.0	3.25	13.2	12.2		
110	5.0	0.6	1.4								1450	37.9	30.5	60.5	51.8	4.08	9.3	16.4		
											1610	38.5	32.0	61.6	53.0	4.24	9.1	16.6		
	7.5	1.4	3.1								1450	38.7	30.9	60.3	51.3	3.70	10.5	14.8		
											1610	39.3	32.3	61.4	52.5	3.85	10.2	15.0		
	10.0	1.9	4.4								1450	39.0	30.9	60.3	51.1	3.55	11.0	13.9		
											1610	39.7	32.4	61.4	52.3	3.70	10.7	14.1		
120	5.0	0.6	1.3								1450	33.8	28.4	61.9	49.5	4.62	7.3	18.5		
											1610	34.4	29.8	62.9	50.8	4.80	7.2	18.7		
	7.5	1.3	3.1								1450	34.5	28.7	61.7	48.8	4.18	8.2	16.8		
											1610	35.1	30.1	62.7	49.9	4.35	8.1	17.0		
	10.0	1.8	4.3								1450	34.8	28.8	61.6	48.5	4.02	8.7	15.9		
											1610	35.4	30.2	62.7	49.7	4.18	8.5	16.0		

YT072 Full Load Performance Data

EWT	Flow	WPD		Full Load Heating							Full Load Cooling															
		PSI	FT	Aiflow	LAT (DB)	HC	HE	Power	COP	DH	Aiflow	LAT (DB)	TC	SC	HR	Power	EER	DH								
°F	GPM			CFM	°F	MBtuh	MBtuh	kW	W/W	MBtuh	CFM	°F	MBtuh	MBtuh	MBtuh	kW	Btuh/W	MBtuh								
25	18.0	5.8	13.4	1960	94.8	52.5	37.7	4.34	3.54	10.8	Operation Not Recommended															
				2160	93.0	53.6	38.8	4.32	3.63	10.3																
30	9.0	2.1	4.9	1960	93.8	50.5	36.0	4.2	3.5	10.4																
				2160	92.1	51.5	37.2	4.2	3.6	9.9																
	13.5	3.4	7.9	1960	95.4	53.7	39.0	4.31	3.65	10.8																
				2160	93.5	54.8	40.2	4.29	3.74	10.3																
	18.0	5.5	12.7	1960	96.3	55.6	40.7	4.37	3.73	11.1																
				2160	94.3	56.7	41.9	4.35	3.82	10.6																
40	9.0	2.1	4.8	1960	97.1	57.4	42.5	4.37	3.85	11.1																
				2160	95.1	58.6	43.7	4.35	3.95	10.6																
	13.5	3.3	7.7	1960	98.8	61.0	45.9	4.45	4.02	11.6																
				2160	96.7	62.3	47.2	4.42	4.13	11.0																
	18.0	5.3	12.3	1960	99.8	63.2	47.8	4.51	4.11	11.9																
				2160	97.6	64.5	49.2	4.49	4.21	11.4																
50	9.0	2.0	4.7	1960	100.8	65.1	49.6	4.55	4.19	12.2									1960	57.7	75.6	47.3	85.3	2.85	26.5	3.8
				2160	98.5	66.5	51.0	4.53	4.30	11.6									2170	59.3	77.5	48.4	87.6	2.97	26.1	3.8
	13.5	3.3	7.5	1960	102.7	69.3	53.4	4.64	4.38	12.7									1960	56.9	76.8	48.9	88.6	3.45	22.3	7.2
				2160	100.3	70.7	54.9	4.61	4.49	12.1									2170	58.6	78.7	50.0	91.0	3.59	22.0	7.3
	18.0	5.2	12.0	1960	103.9	71.7	55.6	4.70	4.47	13.1									1960	56.6	77.8	49.6	88.9	3.25	23.9	6.2
				2160	101.4	73.1	57.2	4.68	4.58	12.5									2170	58.3	79.7	50.8	91.3	3.38	23.6	6.3
60	9.0	2.0	4.6	1960	104.5	73.1	56.8	4.78	4.48	13.5	1960	56.4	78.2	49.9	89.0	3.16	24.8	5.7								
				2160	102.0	74.6	58.4	4.75	4.60	12.9	2170	58.2	80.2	51.1	91.4	3.28	24.4	5.8								
	13.5	3.2	7.4	1960	106.7	77.7	61.1	4.87	4.68	14.1	1960	58.2	79.3	51.2	92.0	3.72	21.3	8.3								
				2160	104.0	79.3	62.8	4.84	4.80	13.5	2170	56.7	76.3	49.3	89.3	3.79	20.1	9.3								
	18.0	5.1	11.8	1960	108.0	80.4	63.6	4.93	4.78	14.6	1960	58.5	78.3	50.5	91.7	3.95	19.8	9.4								
				2160	105.2	82.1	65.4	4.91	4.90	13.9	2170	56.4	77.3	50.0	89.5	3.58	21.6	8.2								
70	9.0	2.0	4.5	1960	108.3	81.0	63.9	5.04	4.72	15.0	1960	58.2	79.7	51.6	92.0	3.61	22.1	7.7								
				2160	105.5	82.7	65.6	5.01	4.84	14.3	2170	57.0	74.2	48.7	88.4	4.16	17.8	11.4								
	13.5	3.2	7.3	1960	110.7	86.2	68.7	5.13	4.93	15.7	1960	58.7	76.0	49.8	90.8	4.33	17.6	11.5								
				2160	107.7	88.0	70.6	5.10	5.05	15.0	2170	56.7	75.1	49.4	88.5	3.93	19.1	10.1								
	18.0	5.1	11.7	1960	112.1	89.2	71.5	5.20	5.03	16.2	1960	58.4	77.0	50.5	90.9	4.09	18.8	10.2								
				2160	109.0	91.1	73.4	5.18	5.15	15.5	2170	56.5	75.5	49.7	88.5	3.81	19.8	9.5								
80	9.0	1.9	4.5	1960	112.0	88.9	70.7	5.33	4.89	16.5	1960	58.3	77.4	50.9	91.0	3.97	19.5	9.6								
				2160	108.9	90.7	72.6	5.30	5.02	15.8	2170	57.5	71.1	47.6	86.7	4.58	15.5	13.6								
	13.5	3.1	7.2	1960	114.7	94.6	76.1	5.42	5.11	17.3	1960	59.2	72.9	48.7	89.1	4.77	15.3	13.7								
				2160	111.4	96.5	78.1	5.40	5.24	16.6	2170	57.2	72.0	48.2	86.7	4.32	16.7	12.2								
	18.0	5.0	11.6	1960	116.2	97.8	79.1	5.50	5.21	17.8	1960	58.9	73.8	49.4	89.1	4.50	16.4	12.3								
				2160	112.8	99.9	81.2	5.47	5.35	17.1	2170	57.1	72.4	48.6	86.7	4.20	17.3	11.5								
90	9.0	1.9	4.4	1960	115.6	96.4	77.3	5.62	5.03	18.0	1960	58.8	74.2	49.8	89.1	4.37	17.0	11.6								
				2160	112.2	98.4	79.4	5.59	5.16	17.3	2170	56.2	77.7	50.4	89.6	3.47	22.4	7.6								
	13.5	3.1	7.2	1960	118.5	102.6	83.1	5.72	5.26	18.9	1960	58.2	67.5	46.2	84.8	5.06	13.4	16.0								
				2160	114.9	104.7	85.3	5.69	5.39	18.1	2170	59.8	69.2	47.3	87.2	5.26	13.2	16.1								
	18.0	5.0	11.5	1960	120.2	106.2	86.4	5.80	5.37	19.4	1960	57.9	68.4	46.8	84.6	4.77	14.3	14.4								
				2160	116.5	108.4	88.7	5.77	5.50	18.6	2170	58.9	73.8	49.4	89.1	4.50	16.4	12.3								
100	9.0	1.9	4.4	Operation Not Recommended							1960	59.4	70.5	48.3	86.9	4.82	14.6	13.8								
											2170	59.0	63.6	44.6	82.7	5.61	11.3	18.5								
	13.5	3.1	7.2								1960	60.5	65.2	45.6	85.1	5.84	11.2	18.7								
											2170	58.7	64.4	45.2	82.5	5.29	12.2	16.8								
	18.0	5.0	11.4								1960	60.3	66.0	46.3	84.8	5.51	12.0	16.9								
											2170	58.5	64.8	45.5	82.3	5.14	12.6	15.9								
110	9.0	1.9	4.4								1960	60.1	66.4	46.6	84.6	5.35	12.4	16.1								
											2170	59.9	59.4	42.6	80.7	6.26	9.5	21.1								
	13.5	3.1	7.1								1960	61.4	60.9	43.6	83.1	6.51	9.3	21.3								
											2170	59.6	60.1	43.2	80.3	5.90	10.2	19.2								
	18.0	4.9	11.4								1960	61.1	61.6	44.3	82.6	6.14	10.0	19.4								
											2170	59.4	60.4	43.5	80.0	5.73	10.5	18.3								
120	9.0	1.9	4.4								1960	61.0	62.0	44.6	82.3	5.96	10.4	18.5								
											2170	60.9	54.8	40.4	78.7	7.02	7.8	23.5								
	13.5	3.1	7.1								1960	62.4	56.2	41.4	81.1	7.30	7.7	23.7								
											2170	60.6	55.5	41.0	78.1	6.62	8.4	21.5								
	18.0	4.9	11.4								1960	62.1	56.9	42.0	80.4	6.89	8.3	21.7								
											2170	60.5	55.8	41.3	77.7	6.43	8.7	20.5								
				2170	62.0	57.2	42.3	80.0	6.69	8.6	20.7															

YT072 Part Load Performance Data

EWT	Flow °F GPM	WPD		Part Load Heating							Part Load Cooling							
		PSI	FT	Aiflow CFM	LAT (DB) °F	HC MBtuh	HE MBtuh	Power kW	COP W/W	DH MBtuh	Aiflow CFM	TC °F	SC MBtuh	LAT (DB) MBtuh	HR MBtuh	Power kW	EER Btuh/W	DH MBtuh
25	12.0	2.7	6.2	1680	91.0	38.1	26.7	3.33	3.35	8.9	Operation Not Recommended							
				1870	89.1	38.7	27.4	3.29	3.44	8.4								
30	6.0	1.7	3.9	1680	90.5	37.2	26.2	3.23	3.38	8.9								
				1870	88.7	37.8	26.9	3.19	3.48	8.4								
	9.0	2.0	4.5	1680	91.6	39.3	28.1	3.27	3.52	9.0								
				1870	89.7	39.9	28.8	3.23	3.62	8.5								
	12.0	2.6	6.0	1680	92.5	40.9	29.5	3.34	3.59	9.2								
				1870	90.6	41.5	30.3	3.31	3.68	8.7								
40	6.0	1.7	3.9	1680	93.0	41.8	30.6	3.28	3.73	9.1								
				1870	91.0	42.5	31.4	3.25	3.83	8.6								
	9.0	1.9	4.5	1680	94.3	44.1	32.7	3.32	3.89	9.4								
				1870	92.2	44.8	33.5	3.29	3.99	8.8								
	12.0	2.6	6.0	1680	95.3	45.9	34.3	3.40	3.96	9.5								
				1870	93.1	46.6	35.2	3.36	4.06	9.0								
50	6.0	1.7	3.8	1680	96.1	47.4	36.0	3.34	4.15	9.7								
				1870	93.8	48.1	36.8	3.31	4.26	9.2								
	9.0	1.9	4.4	1680	97.5	49.9	38.4	3.39	4.32	10.0								
				1870	95.1	50.7	39.3	3.35	4.44	9.4								
	12.0	2.6	5.9	1680	98.7	52.0	40.2	3.46	4.40	10.2								
				1870	96.2	52.8	41.1	3.43	4.52	9.6								
60	6.0	1.6	3.8	1680	99.8	54.0	42.4	3.41	4.65	10.8								
				1870	97.2	54.9	43.4	3.37	4.77	10.2								
	9.0	1.9	4.4	1680	101.4	57.0	45.2	3.45	4.84	11.1								
				1870	98.7	57.9	46.2	3.41	4.97	10.5								
	12.0	2.5	5.8	1680	102.7	59.3	47.3	3.53	4.93	11.4								
				1870	99.8	60.3	48.4	3.49	5.06	10.7								
70	6.0	1.6	3.7	1680	103.5	60.8	49.0	3.48	5.12	12.0								
				1870	100.6	61.8	50.0	3.44	5.26	11.4								
	9.0	1.9	4.3	1680	105.3	64.1	52.1	3.52	5.33	12.5								
				1870	102.2	65.1	53.2	3.49	5.48	11.7								
	12.0	2.5	5.8	1680	106.8	66.8	54.5	3.61	5.43	12.8								
				1870	103.6	67.8	55.7	3.57	5.58	12.0								
80	6.0	1.6	3.7	1680	106.8	66.8	54.6	3.57	5.49	13.2								
				1870	103.6	67.9	55.8	3.53	5.63	12.5								
	9.0	1.9	4.3	1680	108.8	70.4	58.1	3.62	5.71	13.7								
				1870	105.4	71.5	59.3	3.58	5.86	12.9								
	12.0	2.5	5.7	1680	110.4	73.4	60.8	3.70	5.81	14.0								
				1870	106.9	74.5	62.0	3.66	5.97	13.3								
90	6.0	1.6	3.7	1680	110.0	72.5	60.0	3.66	5.80	14.4								
				1870	106.5	73.7	61.3	3.62	5.96	13.6								
	9.0	1.8	4.2	1680	112.1	76.4	63.8	3.71	6.04	14.9								
				1870	108.4	77.6	65.1	3.67	6.20	14.1								
	12.0	2.5	5.7	1680	113.9	79.6	66.7	3.79	6.15	15.3								
				1870	110.1	80.9	68.1	3.75	6.32	14.5								
100	6.0	1.5	3.5	Operation Not Recommended							1610	47.8	36.9	58.8	63.2	4.51	10.6	16.2
											1800	49.3	38.4	60.2	65.2	4.66	10.6	16.4
	9.0	1.8	4.1								1610	49.9	37.7	58.3	63.9	4.10	12.2	14.4
											1800	51.5	39.2	59.8	65.9	4.24	12.2	14.5
	12.0	2.4	5.5								1610	50.5	37.8	58.3	63.8	3.91	12.9	13.5
											1800	52.1	39.3	59.8	65.9	4.04	12.9	13.6
110	6.0	1.5	3.5								1610	44.1	35.0	59.9	61.6	5.12	8.6	18.6
											1800	45.6	36.4	61.3	63.6	5.30	8.6	18.8
	9.0	1.8	4.1								1610	46.1	35.8	59.4	62.0	4.66	9.9	16.6
											1800	47.6	37.2	60.9	64.0	4.81	9.9	16.8
	12.0	2.3	5.4								1610	46.7	35.8	59.4	61.8	4.44	10.5	15.6
											1800	48.2	37.3	60.8	63.8	4.59	10.5	15.8
120	6.0	1.5	3.4								1610	41.0	33.5	60.7	60.8	5.80	7.1	21.2
											1800	42.3	34.9	62.1	62.8	6.00	7.0	21.4
	9.0	1.7	4.0								1610	42.8	34.2	60.3	60.8	5.27	8.1	19.1
											1800	44.2	35.6	61.7	62.8	5.45	8.1	19.3
	12.0	2.3	5.3								1610	43.3	34.3	60.3	60.5	5.03	8.6	18.0
											1800	44.7	35.7	61.6	62.4	5.20	8.6	18.1

General Information

Packaged Geothermal Heat Pumps shall be constructed based on all information to follow. Equipment shall be completely assembled, piped, internally wired, charged with refrigerant, and tested.

Units shall be supplied factory built, capable of operating over an entering water temperature range from 25° to 120°F (-3.9° to 48.9°C) (extended data tables; Heating 25°F – 90°F, cooling 50°F – 110°F) as standard. All equipment listed in this section must be rated and certified in accordance with Air-Conditioning, Heating and Refrigeration Institute/International Standards Organization (AHRI/ISO 13256-1). All equipment must be tested, investigated, and determined to comply with the requirements of the standards for Heating and Cooling Equipment UL-1995 for the United States and CAN/CSA-C22.2 NO.236 for Canada, by Intertek Testing Laboratories (ETL). The units shall have AHRI/ISO and ETL-US-C labels.

All units shall be quality tested by factory run testing under normal operating conditions as described herein. Quality control system shall automatically perform via computer: helium leak check of both the water and refrigerant circuits, pressure tests, double evacuation and accurately charged system, perform detailed heating and cooling mode tests, and quality cross check all operational and test conditions to pass/fail criteria.

Basic Construction

The heat pumps shall be fabricated from powder coated heavy gauge galvanized steel. This corrosion protection system shall meet the stringent 1000 hour salt spray test per ASTM B117.

All units must have a minimum of three access panels for serviceability of compressor compartment. See IOM manuals for service clearances. All interior surfaces shall be lined with acoustic type closed cell, non-porous, non-fibrous Nitrile/Vinyl insulation. Standard cabinet panel insulation must meet UL-1995 and ASTM E 84/UL 723 Flame 25 / Smoke 50 requirements, air erosion and mold growth limits of UL-181, stringent fungal resistance test per ASTM-C1071 and ASTM G21, and shall meet zero level bacteria growth per ASTM G22. The insulation shall be UL-GREENGUARD certified under the Children and Schools classification and approved by the Factory Mutual Research Corporation. For added protection it shall be protected with an EPA-approved antimicrobial agent.

Cabinets shall have separate holes and knockouts for entrance of line voltage and low voltage control wiring. All factory-installed wiring passing through factory knockouts and openings shall be protected from sheet metal edges at openings by plastic ferrules. Supply and return water connections shall be copper MPT fittings, and shall be securely mounted flush to the cabinet allowing for connection to a flexible hose without the use of a back-up wrench. All water connections and electrical knockouts must be in the compressor compartment as to not interfere with the serviceability of unit.

The unit shall be supplied with extended range internal insulation. All internal water lines and the evaporator side refrigeration tubing shall all have closed cell EPDM insulation. The water to refrigerant heat exchanger shall have 8lb. Envelo-Seal rigid closed cell spray foam applied.

Option: Sound attenuating compressor blanket for additional noise reduction.

All vertical units to have field installed discharge air duct collar, shipped loose, and 1" (25.4mm) field installed return air duct collar.

Option: Units shall have a field installed 1" (25.4mm) wide filter rack. Filter rack provided by heat pump manufacturer. Filter removal from either side with access door as part of the bracket. Units shall have a 1" (25.4mm) thick throwaway type glass fiber or pleated filter.

Option: Units shall have a field installed 2-inch (50.8mm) wide filter rack with removable access door and 2-inch (50.8mm) thick MERV11 pleated throwaway filter available.

Refrigerant Circuit

All units shall contain R-410A sealed refrigerant circuit including a high efficiency scroll compressor designed for heat pump operation, a thermostatic expansion valve for refrigerant metering, micro-channel refrigerant to air heat exchanger, reversing valve, coaxial (tube in tube) refrigerant to water heat exchanger, and safety controls (see controls section). Refrigerant access ports shall be factory installed on high and low pressure refrigerant lines to facilitate field service.

Hermetic compressors shall be internally sprung. The compressor shall have a dual level vibration isolation system. The compressor will be mounted on rubber grommets secured to a large heavy gauge compressor mounting plate, which is then mounted to the cabinet base with specially engineered sound-tested PU Foam vibration isolation pads for maximized vibration attenuation. Compressor shall have thermal overload protection. Compressor discharge and suction refrigerant lines to have shock loops directly at compressor for additional vibration elimination. Compressor shall be located in an insulated compartment away from air stream to minimize sound transmission.

Refrigerant to air heat exchangers (air coil) shall utilize an all aluminium micro-channel construction and be rated to withstand 625 PSIG (4309 kPa) refrigerant working pressure. Refrigerant to water coaxial heat exchangers shall be of copper inner water tube and steel refrigerant outer tube design (water coil), shall have enhanced rifled and knurled inner tube, rated to withstand 625 PSIG (4309 kPa) working refrigerant pressure and 500 PSIG (3445 kPa) working water pressure, and designed to have a low water pressure drop (max. 15ft.hd.).

Refrigerant metering shall be accomplished by thermostatic expansion valve only. Expansion valves shall be dual port balanced types with external equalizer for optimum refrigerant metering. The expansion valves must be bi-directional without the use of check valves. Units shall be designed and tested for operating ranges of entering water temperatures from 25° to 120°F (-3.9° to 48.9°C). Reversing valve shall be four-way solenoid activated refrigerant valve, which shall default to heating mode should the solenoid fail to function.

Option: The unit will be supplied with a cupro-nickel coaxial water to refrigerant heat exchanger.

Option: The unit shall be supplied with a hot water generator (desuperheater) heat exchanger, which shall be double wall and vented.

Fan and Motor Assembly

Blower shall have an orifice ring to allow removal of wheel and motor from front side without removing housing and be mounted such that the blower assembly can be removed with two screws via the rear access panel. The fan assembly or housing shall be removable without removing the ductwork. Units shall have a direct-drive centrifugal fan with a dynamic balanced wheel. The fan motor shall be an ECM variable speed ball bearing type motor. The fan motor shall be isolated from the housing by rubber grommets. The motor shall be permanently lubricated and have thermal overload protection. The motor will have 3 fan speed selections, a constant fan operation mode, as well as a dehumidification mode. The ECM fan motor incorporates a soft start feature.

Drain Pan

The drain pan shall be constructed of 304 Stainless Steel to inhibit corrosion, or PC/ABS with Ionpure antimicrobial powder. The corrosion protection shall meet the stringent 1000 hour salt spray test per ASTM B117. Drain pan shall be fully insulated. The unit as standard will be supplied with solid-state electronic condensate overflow protection. Units shall be furnished with a 3/4" PVC condensate drain connection.

Electrical

A control box shall be located on top of the unit and shall contain or 75VA transformer, 24 volt activated, 2 or 3 pole compressor contactor, terminal block for thermostat wiring and solid-state controller for complete unit operation and control. Units shall be name-plated for use with time delay fuses or HACR circuit breakers. Unit controls shall be 24 Volt and provide heating or cooling as required by the remote thermostat/sensor.

Source pump high voltage terminal block including minimum 7amp circuit breaker protection to be provided for field wiring of source pumps.

A detachable low voltage thermostat terminal strip with screw terminals to be provided for field wiring.

Option: Auxiliary electric heat system installed internal of the unit. The unit shall have a sheet metal plenum installed to house the electric heat strip without removing the blower housing. Field installed kit includes controls and circuit breakers for service.

Option: Unit will come with factory installed soft start device to reduce start-up amps by 60% to avoid light flicker where power supply is a concern.

Solid State ECM Fan Control Board

Airflow selection shall be accomplished via dip switch settings on the ECM control board. Actual airflow shall be indicated by the CFM LED with each 100 CFM being represented by one flash of the LED. Airflow shall be automatically maintained ($\pm 5\%$) by the ECM motor regardless of external static pressure up to its maximum output capacity. A dip switch shall allow selection of a special dehumidification mode, which reduces airflow in cooling by 50 CFM/ton to increase the latent capacity of the unit. A terminal shall be provided on the control board to allow an external humidistat to activate dehumidification mode, or the control board can be set to constant dehumidification mode.

Solid State Control Board System

Units shall have a solid-state control system. The control system microprocessor board shall be specifically designed to protect against building electrical system noise contamination, EMI, and RFI interference. The control system shall interface with a heat pump type 24V thermostat. The control system shall have the following features:

- Anti-short cycle time delay (5 minutes) on compressor operation.
- Random start on power up mode.
- Low voltage protection.
- High voltage protection.
- Unit shutdown on high or low refrigerant pressures.
- Unit shutdown on low temperature (low source coil temp OR low air coil temp).
- Condensate overflow electronic protection.
- Option to reset unit at thermostat or disconnect (soft or hard reset functions)
- Fault retry logic. The same fault trip has to occur 3 times before a hard lockout. If a fault occurs 3 times sequentially without thermostat meeting temperature, then lockout requiring manual reset will occur. A soft or hard reset will restart the unit.
- Ability to defeat time delays for servicing (test mode).
- Light emitting diode (LED) on circuit board to indicate high pressure, low pressure, low/high voltage, low water/air temperature, condensate overflow, high discharge gas temperature, faulty temperature sensor(s), and control voltage status.
- The low-pressure switch shall not be monitored for the first 90 seconds after a compressor start command to prevent nuisance safety trips.
- 24V output to cycle a motorized water valve or other device with compressor contactor.
- Water coil (evaporator) low temperature sensing selectable for water or anti-freeze.
- High discharge gas temperature sensing and protection.
- Smart desuperheater operation and logic to eliminate any heat transfer from the water tank to the source loop during cooling mode.

Revision Table

Date	Description of Revision	Page
14SEPT2022	YT UNIT REVISION E EDSM CREATED	ALL



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