





Unit Features

TC Compact Packaged Series



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THE TRANQUILITY® 16 COMPACT (TC) SERIES

The award winning Tranquility® 16 Series raises the bar for water-source heat pump efficiencies, features and application flexibility. Not only does the Tranquility® 16 exceed ASHRAE 90.1 efficiencies, but it also uses EarthPure® HFC-410A zero ozone depletion refrigerant, making it an extremely environmentally-friendly option. Tranquility® 16 is eligible for LEED® (Leadership in Energy and Environmental Design) points because of the "green" technology design. With one of the smallest cabinets in the industry, the Tranquility® 16 will easily fit into tight spaces. Designed to be backward compatible with thousands of older water-source heat pumps, the Tranquility® 16 Compact Series heat pump is packed full of the innovation you have come to expect from the experts at ClimateMaster.

Available in sizes from 1/2 ton (1.76 kW) through 5 tons (17.6 kW) with multiple cabinet options (vertical upflow and horizontal) the Tranquility® 16 offers a wide range of units for most any application.

ClimateMaster's exclusive double isolation compressor mounting system makes the Tranquility® 16 one of the quietest units on the market. Compressors are mounted on specially engineered sound-tested EPDM grommets to a heavy gauge mounting plate, which is further isolated from the cabinet base with rubber grommets for maximized vibration/sound attenuation. The easy access control box and large access panels make installing and maintaining the unit easier than other water-source heat pumps currently in production, proving that a small unit can be easy to service.

Options such as tin-plated air coil, DDC controls, and high efficiency pleated MERV rated air filters allow customized design solutions. Optional high static fan motor expands the operating range and helps overcome some of the challenges associated with ductwork for retrofit installations. A cupro-nickel water-coil and sound absorbing UltraQuiet package are options that make a great unit even better. Optional factory installed Waterside Economizer (WSE) uses cool loop water for "free" cooling. WSE option meets IECC section C403.3.1 and is a requirement in many states. WSE requires heat pump thermostast with two stages of cooling and one stage heating.

The Tranquility® 16 (TC) Series Water-Source Heat Pumps are designed to meet the challenges of today's HVAC demands with one of the most innovative products available on the market.

UNIT FEATURES

- Sizes 006 (1/2 ton, 1.76 kW) through 060 (5 tons, 17.6 kW)
- EarthPure® HFC-410A refrigerant
- Exceeds ASHRAE 90.1 efficiencies
- Galvanized steel construction
- Epoxy powder painted galvanized steel drain pan
- Sound absorbing glass fiber insulation
- Unique double isolation compressor mounting via vibration isolating rubber grommets for quiet operation
- Insulated divider and separate compressor/air handler compartments
- Copeland scroll compressors (rotary for size 018 and below)
- TXV metering device
- Microprocessor controls standard (optional DXM and/or DDC controls)
- Field convertible discharge air arrangement for horizontal units
- PSC three-speed fan motor
- Internally trapped condensate drain line (vertical units only)
- Unit Performance Sentinel performance monitoring system
- Eight Safeties Standard
- Extended range (20 to 120°F, -6.7 to 48.9°C) capable

AVAILABLE OPTIONS

- · High static blowers
- LonWorks, BACnet, Modbus and Johnson N2 compatibility options for DDC controls
- Cupro-nickel water-coil
- Sound absorbing UltraQuiet package
- ECM Blowers
- Waterside Economizer (WSE): Requires HP thermostat with 2 stages cooling
- Stainless steel condensate drain pan

Reference Calculations

Heating

 $LWT = EWT - \frac{HE}{GPM \times 500}$

 $LAT = EAT + \frac{HC}{CFM \times 1.08}$

Cooling

 $LWT = EWT + \frac{HR}{GPM \times 500}$

LC = TC - SC

LAT (DB) = EAT (DB) - $\frac{SC}{CFM \times 1.05}$

 $S/T = \frac{SC}{TC}$

Legend and Glossary of Abbreviations

BTUH = BTU(British Thermal Unit) per hour

CFM = airflow, cubic feet/minute

COP = coefficient of performance = BTUH output/BTUH input

DB = dry bulb temperature (°F)

EAT = entering air temperature, Fahrenheit (dry bulb/wet bulb)

EER = energy efficiency ratio = BTUH output/Watt input

MPT = male pipe thread

ESP = external static pressure (inches w.g.)

EWT = entering water temperature

GPM = water flow in U.S. gallons/minute

HE = total heat of extraction, BTUH

HC = air heating capacity, BTUH

HR = total heat of rejection, BTUH

HWC = hot water generator (desuperheater) capacity, Mbtuh

FPT = female pipe thread

KW = total power unit input, kilowatts

LAT = leaving air temperature, °F

LC = latent cooling capacity, BTUH

LWT = leaving water temperature, °F

MBTUH = 1000 BTU per hour

S/T = sensible to total cooling ratio

SC = sensible cooling capacity, BTUH

TC = total cooling capacity, BTUH

WB = wet bulb temperature (°F)

WPD = waterside pressure drop (psi & ft. of hd.)

Conversion Table - to convert inch-pound (English) to S-I (Metric)

Air Flow	Water Flow	Ext Static Pressure	Water Pressure Drop
Airflow (L/s) = CFM x 0.472	Water Flow (L/s) = gpm x 0.0631	ESP (Pa) = ESP (in of wg) x 249	PD (kPa) = PD (ft of hd) x 2.99

Selection Procedure

- **Step 1** Determine the actual heating and cooling loads at the desired dry bulb and wet bulb conditions.
- Step 2 Obtain the following design parameters: Entering water temperature, water flow rate in GPM, air flow in CFM, water flow pressure drop and design wet and dry bulb temperatures. Air flow CFM should be between 300 and 450 CFM per ton. Unit water pressure drop should be kept as close as possible to each other to make water balancing easier. Go to the appropriate tables and find the proper indicated water flow and water temperature.
- **Step 3** Select a unit based on total and sensible cooling conditions. Select a unit which is closest to, but no larger than, the actual cooling load.
- **Step 4** Enter tables at the design water flow and water temperature. Read the total and sensible cooling capacities (Note: interpolation is permissible, extrapolation is not).
- **Step 5** Read the heating capacity. If it exceeds the design criteria it is acceptable. It is quite normal for Water-Source Heat Pumps to be selected on cooling capacity only since the heating output is usually greater than the cooling capacity.
- Step 6 Determine the correction factors associated with the variable factors of dry bulb, wet bulb and air flow.Corrected Total Cooling = tabulated total cooling x wet bulb correction x air flow correction

 Corrected Sensible Cooling = tabulated sensible cooling x dry bulb correction x air flow correction
- Step 7 Compare the corrected capacities to the load requirements. Normally if the capacities are within 10% of the loads, the equipment is acceptable. It is better to undersize than oversize, as undersizing improves humidity control, reduces sound levels and extends the life of the equipment.
- Step 8 When completed, calculate water temperature rise and assess the selection. If the units selected are not within 10% of the load calculations, then review what effect changing the GPM, water temperature and/or air flow and air temperature would have on the corrected capacities. If the desired capacity cannot be achieved, select the next larger or smaller unit and repeat the procedure. Remember, when in doubt, undersize slightly for best performance.

Example Equipment Selection For Cooling

Step 1 Load Determination:

Assume we have determined that the appropriate cooling load at the desired dry bulb 80°F and wet bulb 65°F conditions is as follows:

Total Cooling	23,700 BTUH
Sensible Cooling	16,500 BTUH
Entering Air Temp	80°F Dry Bulb / 65°F Wet Bulb

Step 2 Design Conditions:

Similarly, we have also obtained the following design parameters:

Entering Water Temp90°F
Water Flow (Based upon 10°F rise in temp.)6.0 GPM
Air Flow800 CFM

Step 3, 4 & 5 HP Selection:

After making our preliminary selection (TC024), we enter the tables at design water flow and water temperature and read Total Cooling, Sens. Cooling and Heat of Rej. capacities:

Total Cooling	23,400 BTUH
Sensible Cooling	17,500 BTUH
Heat of Rejection	30,200 BTUH

Step 6 & 7 Entering Air and Airflow Corrections:

Next, we determine our correction factors.

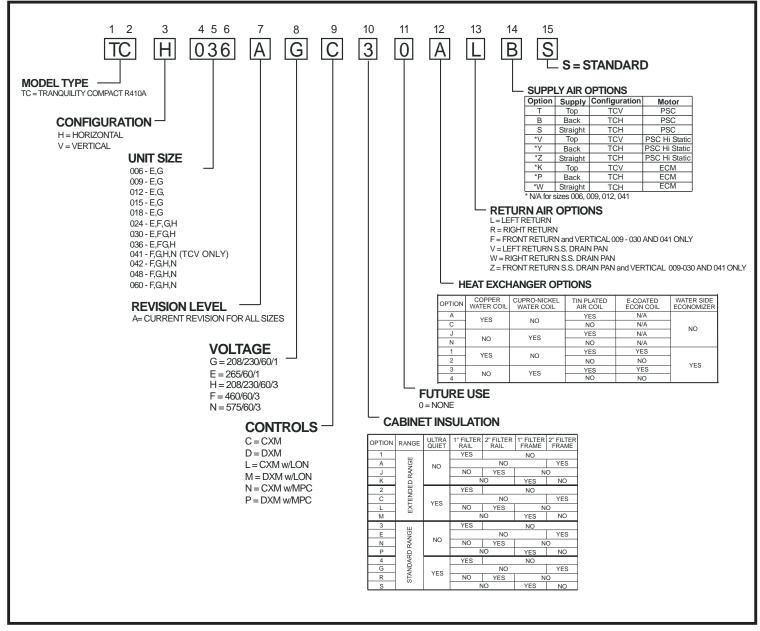
	<u>lable</u>	Ent Air	Air Flow	Corrected
Corrected Total	Cooling =	23,400 x 0).9681 x 1	.0050 = 22,767
Corrected Sens	s Cooling =	= 17,500 x	1.1213 x (0.9820 = 19,270
Corrected He	at of Rej.	= 30,200 x	0.9747 x 1	1.0434 = 30,713

Step 8 Water Temperature Rise Calculation & Assessment:

Actual Temperature	Rise	10.2°F

When we compare the Corrected Total Cooling and Corrected Sensible Cooling figures with our load requirements stated in Step 1, we discover that our selection is within +/- 10% of our sensible load requirement. Furthermore, we see that our Corrected Total Cooling figure is within 1,000 Btuh the actual indicated load.

TC Series Nomenclature



Note: Above model nomenclature is a general reference. Not all configurations are available on all models. Consult engineering submittal for detailed information.

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Performance Data - AHRI/ASHRAE/ISO 13256-1

ASHRAE/AHRI/ISO 13256-1. English (I-P) Units

		W	later Loop H	eat Pump	Gre	ound Water	Heat Pump		Gro	und Loop H	eat Pump		
Model	Fan	Cooling 86°F		Heating (68°F	Cooling	Cooling 59°F Heating 50°F			Cooling	77°F	Heating 32°F	
Model	Motor	Capacity	EER	Capacity	СОР	Capacity	EER	Capacity	000	Capacity	EER	Capacity	СОР
		Btuh	Btuh/W	Btuh	COP	Btuh	Btuh/W	Btuh	СОР	Btuh	Btuh/W	Btuh	COP
TC-006	PSC	5,800	13.2	7,500	4.7	6,900	21.1	6,200	4.0	6,200	15.4	4,900	3.4
TC-009	PSC	8,800	13.4	11,600	4.3	10,100	21.0	9,800	3.9	9,300	15.7	7,900	3.4
TC-012	PSC	11,700	13.5	15,200	4.3	13,700	20.8	12,500	3.8	12,000	14.9	9,900	3.2
TC-015	PSC	14,500	15.4	17,300	5.0	16,800	24.5	14,400	4.4	15,000	17.2	11,100	3.6
10-015	ECM	14,500	15.5	16,800	5.1	16,800	25.0	13,800	4.4	15,000	17.9	10,900	3.6
TC-018	PSC	17,300	14.3	21,500	5.0	20,600	21.6	17,200	4.2	18,400	16.3	13,900	3.4
10-016	ECM	19,600	15.9	22,000	5.3	22,300	23.6	18,200	4.4	20,200	18.1	14,100	3.8
TC-024	PSC	23,700	13.4	28,500	4.7	26,700	20.9	24,000	4.1	24,900	15.4	18,500	3.3
10-024	ECM	23,800	14.3	27,700	4.9	26,700	21.5	23,400	4.1	24,900	16.4	18,500	3.5
TC-030	PSC	28,100	13.4	35,100	4.6	31,700	20.1	29,600	4.1	28,900	15.1	23,400	3.4
10-030	ECM	28,300	14.3	35,800	4.8	32,400	22.0	30,000	4.4	29,300	16.5	23,600	3.7
TC-036	PSC	34,500	13.5	45,200	4.4	38,700	20.7	37,500	4.0	35,300	14.9	29,600	3.3
10-036	ECM	34,500	14.0	43,400	4.5	39,000	20.9	35,800	4.0	35,400	15.5	28,700	3.4
TCV-041	PSC	36,500	13.2	45,700	4.3	41,400	19.7	38,000	3.7	38,000	14.8	30,000	3.2
TC 042	PSC	40,100	13.2	52,700	4.3	45,900	19.6	44,000	3.8	40,500	14.4	34,300	3.2
TC-042	ECM	42,100	14.9	50,400	4.5	46,400	22.0	42,400	4.0	42,200	16.8	33,900	3.4
TC 049	PSC	47,700	13.3	55,900	4.7	54,300	20.5	46,500	4.1	49,000	14.7	36,400	3.4
TC-048	ECM	47,900	14.2	53,000	4.8	53,600	21.0	45,600	4.3	49,000	16.2	36,400	3.6
TC-060	PSC	59,400	13.4	72,000	4.3	66,600	19.9	60,000	3.9	60,100	14.8	47,500	3.3
10-060	ECM	60,000	14.8	71,200	4.4	67,000	21.0	59,600	4.0	61,400	16.5	47,500	3.4

Cooling capacities based upon 80.6°F DB, 66.2°F WB entering air temperature Heating capacities based upon 68°F DB, 59°F WB entering air temperature All ratings based upon operation at lower voltage of dual voltage rated models

ASHRAE/AHRI/ISO 13256-1. Metric (S-I) Units

	Fan	Water Loop Heat Pump					ound Water I	leat Pump		Gr	ound Loop F	leat Pump	
Model		Cooling	g 86°F	Heating 6	8°F	Coolin	g 59°F	Heating	50°F	Full Cool	ling 77°F	Full Heatin	g 32°F
	Motor	Capacity Btuh	EER W/W	Capacity Btuh	СОР	Capacity Btuh	EER W/W	Capacity Btuh	СОР	Capacity Btuh	EER W/W	Capacity Btuh	СОР
TC-006	PSC	1.70	3.9	2.20	4.7	2.02	6.2	1.82	4.0	1.82	4.5	1.44	3.4
TC-009	PSC	2.58	3.9	3.40	4.3	2.96	6.2	2.87	3.9	2.72	4.6	2.31	3.4
TC-012	PSC	3.43	4.0	4.45	4.3	4.01	6.1	3.66	3.8	3.52	4.4	2.90	3.2
TC-015	PSC	4.25	4.5	5.07	5.0	4.92	7.2	4.22	4.4	4.39	5.0	3.25	3.6
10-015	ECM	4.25	4.5	4.92	5.1	4.92	7.3	4.04	4.4	4.39	5.2	3.19	3.6
TC 040	PSC	5.07	4.2	6.30	5.0	6.04	6.3	5.04	4.2	5.39	4.8	4.07	3.4
TC-018	ECM	5.74	4.7	6.45	5.3	6.54	6.9	5.33	4.4	5.92	5.3	4.13	3.8
TC-024	PSC	6.94	3.9	8.35	4.7	7.82	6.1	7.03	4.1	7.30	4.5	5.42	3.3
16-024	ECM	6.97	4.2	8.12	4.9	7.82	6.3	6.87	4.1	7.30	4.8	5.42	3.5
TC 020	PSC	8.23	3.9	10.28	4.6	9.29	5.9	8.67	4.1	8.47	4.4	6.86	3.4
TC-030	ECM	8.29	4.2	10.49	4.8	9.49	6.4	8.79	4.4	8.58	4.8	6.91	3.7
TC-036	PSC	10.11	4.0	13.24	4.4	11.34	6.1	10.99	4.0	10.34	4.4	8.67	3.3
10-036	ECM	10.11	4.1	12.72	4.5	11.43	6.1	10.49	4.0	10.37	4.5	8.41	3.4
TCV-041	PSC	10.69	3.9	13.39	4.3	12.13	5.8	11.13	3.7	11.13	4.3	8.82	3.2
TC-042	PSC	11.75	3.9	15.44	4.3	13.45	5.7	12.89	3.8	11.87	4.2	10.05	3.2
16-042	ECM	12.34	4.4	14.77	4.5	13.60	6.4	12.42	4.0	12.36	4.9	9.93	3.4
TO 040	PSC	13.98	3.9	16.38	4.7	15.91	6.0	13.62	4.1	14.36	4.3	10.67	3.4
TC-048	ECM	14.03	4.2	15.53	4.8	15.70	6.2	13.36	4.3	14.36	4.7	10.67	3.6
TC occ	PSC	17.40	3.9	21.10	4.3	19.51	5.8	17.58	3.9	17.61	4.3	14.80	3.3
TC-060	ECM	17.58	4.3	20.86	4.4	19.63	6.2	17.46	4.0	17.99	4.8	13.92	3.4

Cooling capacities based upon 27°C DB, 19°C WB entering air temperature Heating capacities based upon 20°C DB, 15°C WB entering air temperature All ratings based upon operation at lower voltage of dual voltage rated models

Performance Data - Selection Notes

For operation in the shaded area when water is used in lieu of an antifreeze solution, the LWT (Leaving Water Temperature) must be calculated. Flow must be maintained to a level such that the LWT is maintained above 40°F [4.4°C] when the JW3 jumper is not clipped

(see example below). Otherwise, appropriate levels of a proper antifreeze solution should be used in systems with leaving water temperatures of 40°F or below and the JW3 jumper should be clipped. This is due to the potential of the refrigerant temperature being as low as 32°F [0°C] with 40°F [4.4°C] LWT, which may lead to a nuisance cutout due to the activation of the Low Temperature Protection. JW3 should never be clipped for standard range equipment or systems without antifreeze.

Example:

At 50°F EWT (Entering Water Temperature) and 2.25 gpm/ton, a 3 ton unit has a HE of 27,300 Btuh. To calculate LWT, rearrange the formula for HE as follows:

 $HE = TD \times GPM \times 500$, where HE = Heat of Extraction (Btuh); TD = temperature difference (EWT - LWT) and GPM = U.S. Gallons per Minute.

 $TD = HE / (GPM \times 500)$

 $TD = 27,300 / (6.75 \times 500)$

 $TD = 8^{\circ}F$

LWT = EWT - TD

 $LWT = 50 - 8 = 42^{\circ}F$

						$\overline{}$	
				Heating -	EAT 70°F		
		Airflow CFM	нс	kW	HE	LAT	СОР
		860	22.6	2.67	14.1	94	2.49
		1150	23.2	2.39	15.1	89	2.84
	23.8	860	25.6	2.80	16.6	98	2.68
	23.8	1150	26.2	2.51	17.7	91	3.06
/	24.7	860	26.8	2.85	17.6	99	2.76
_/	24.7	1150	27.5	2.56	18.8	92	3.15
_/	25.0	860	27.5	2.88	18.2	100	2.80
1	25.0	1150	28.2	2.59	19.4	93	3.19
Γ	21.8	860	30.1	2.98	20.3	102	2.95
1	21.8	1150	30.8	2.68	21.7	95	3.37
1	23.3	860	31.6	3.05	21.6	104	3.04
1	23.3	1150	32.4	2.74	23.1	96	3.47
1	23.9	860	32.4	3.08	22.3	105	3.09
1	23.9	1150	33.2	2.77	23.8	97	3.52
Γ	19.2	860	34.5	3.16	24.1	107	3.20
1	19.2	1150	35.4	2.84	25.7	98	3.65
-\	21.0	860	36.3	3.23	25.6	109	3.30
-\	21.0	1150	37.2	2.90	27.3	100	3.76
,	21.9	860	37.3	3.27	26.4	110	3.35
	21.9	1150	38.2	2.93	28.2	101	3.82
	\ 16.4	860	38.9	3.32	27.8	112	3.43
	\ 4	1150	39.8	2.99	29.7	102	3.91
		860	40.9	3.40	29.5	114	3.53
		1150	41.9	3.05	31.5	104	4.02
		860	42.0	3.44	30.4	115	3.58
		150	43.0	3.09	32.5	105	4.08
			43.1	3.47	31.4	116	3.6
		,	44.1	3.12	33.5	106	
			_	3.55	33.2	118	

In this example, as long as the EWT does not fall below 50°F, the system will operate as designed. For EWTs below 50°F, higher flow rates will be required (open loop systems, for example, require at least 2 gpm/ton when EWT is below 50°F).

Performance Data - TC H/V 006 (PSC Blower)

220 CFM Nominal (Rated) Airflow

Performance capacities shown in thousands of Btuh

WPD				Cooling - EAT 80/67°F							Heating - EAT 70°F							
°F	GPM	PSI	FT	Airflow CFM	тс	sc	Sens/Tot Ratio	kW	HR	EER	Airflow CFM	нс	kW	HE	LAT	СОР		
20	1.5 1.5	1.7 1.7	4.0 4.0		Ope	ration	not recor	nmend	ded		170 225	4.3 4.4	0.49 0.44	2.7 2.9	93.3 88.0	2.6 2.9		
	0.8	0.5	1.2	170	7.4	4.2	0.57	0.28	8.4	26.4	170	4.6	0.50	3.0	95.2	2.7		
	0.8 1.1	0.5 0.8	1.2 1.8	225 170	7.7 7.4	4.8 4.1	0.62 0.55	0.29 0.26	8.7 8.3	26.4 28.5	225 170	4.7 4.8	0.45 0.51	3.2 3.2	89.5 96.2	3.1 2.8		
30	1.1	0.8	1.8	225	7.7	4.6	0.60	0.27	8.6	28.5	225	4.9	0.46	3.4	90.3	3.2		
	1.5 1.5	1.3 1.3	2.9 2.9	170 225	7.3 7.6	4.0 4.5	0.54 0.59	0.25 0.26	8.2 8.5	29.2 29.2	170 225	4.9 5.0	0.51 0.46	3.2 3.5	96.8 90.7	2.8 3.2		
	0.8	0.4	0.9	170	7.3	4.3	0.59	0.20	8.3	23.2	170	5.3	0.52	3.6	98.8	3.0		
	0.8 1.1	0.4	0.9 1.4	225	7.6 7.4	4.8 4.2	0.64	0.33 0.29	8.7	23.2 25.8	225 170	5.4	0.47 0.53	3.8	92.3 100.2	3.4		
40	1.1	0.6 0.6	1.4	170 225	7.7	4.8	0.57 0.62	0.29	8.4 8.7	25.8	225	5.5 5.7	0.33	3.8 4.1	93.3	3.1 3.5		
	1.5	1.0	2.4	170	7.4	4.2	0.56	0.28	8.4	26.9	170	5.7	0.53	3.9	100.9	3.1		
	1.5 0.8	0.3	0.8	225 170	7.7 6.9	4.7	0.61	0.29	8.7 8.1	26.9 19.9	225 170	5.8 6.0	0.48	4.2	93.9	3.6		
	0.8	0.3	0.8	225	7.2	4.8	0.66	0.36	8.5	19.9	225	6.1	0.48	4.5	95.3	3.7		
50	1.1 1.1	0.5 0.5	1.2 1.2	170 225	7.2 7.5	4.3 4.8	0.59 0.64	0.32 0.33	8.3 8.6	22.5 22.5	170 225	6.3 6.5	0.55 0.49	4.5 4.8	104.4 96.6	3.4 3.9		
	1.5	0.9	2.0	170	7.3	4.3	0.58	0.31	8.3	23.8	170	6.5	0.55	4.6	105.4	3.4		
	1.5 0.8	0.9	2.0 0.6	225 170	7.6 6.5	4.8	0.63	0.32	8.7 7.9	23.8 16.8	225 170	6.7	0.50	5.0 4.9	97.4 106.7	3.9		
	0.8	0.3	0.6	225	6.8	4.7	0.69	0.40	8.2	16.8	225	6.9	0.50	5.2	98.4	4.0		
60	1.1	0.5	1.0	170	6.9	4.2	0.61	0.36	8.1	19.1	170	7.1	0.57	5.2	108.6	3.7		
	1.1 1.5	0.5 0.8	1.0 1.8	225 170	7.1 7.0	4.8 4.2	0.67 0.61	0.37 0.34	8.4 8.2	19.1 20.4	225 170	7.3 7.3	0.51 0.57	5.5 5.3	99.9 109.7	4.2 3.7		
	1.5	0.8	1.8	225	7.3	4.8	0.66	0.36	8.5	20.4	225	7.5	0.51	5.7	100.7	4.3		
	0.8 0.8	0.2 0.2	0.5 0.5	170 225	6.0 6.3	4.0 4.5	0.66 0.72	0.43 0.45	7.5 7.8	14.0 14.0	170 225	7.4 7.6	0.58 0.52	5.5 5.9	110.5 101.4	3.8 4.3		
70	1.1	0.4	0.9	170	6.4	4.1	0.64	0.40	7.8	16.0	170	7.8	0.58	5.8	112.4	3.9		
	1.1 1.5	0.4 0.7	0.9 1.6	225 170	6.7 6.6	4.6 4.1	0.70 0.63	0.42 0.38	8.1 7.9	16.0 17.1	225 170	8.0 8.0	0.53 0.59	6.2 5.9	102.8 113.4	4.5 4.0		
	1.5	0.7	1.6	225	6.8	4.7	0.69	0.40	8.2	17.1	225	8.2	0.53	6.4	103.6	4.5		
	0.8 0.8	0.2 0.2	0.5 0.5	170	5.6	3.8	0.68	0.47 0.49	7.2	12.0	170 225	7.9	0.59 0.53	5.9	113.2 103.5	4.0		
-00	1.1	0.4	0.8	225 170	5.8 5.9	4.3 3.9	0.74 0.67	0.49	7.5 7.4	12.0 13.2	170	8.1 8.3	0.60	6.3 6.3	115.4	4.5 4.1		
80	1.1	0.4	0.8	225	6.1	4.4	0.73	0.46	7.7	13.2	225	8.5	0.54	6.7	105.1	4.6		
	1.5 1.5	0.6 0.6	1.5 1.5	170 225	6.2 6.4	4.0 4.6	0.65 0.71	0.42 0.44	7.6 7.9	14.7 14.7	170 225	8.4 8.6	0.60 0.54	6.3 6.7	115.7 105.3	4.1 4.6		
	0.8	0.2	0.5	170	5.3	3.7	0.70	0.50	7.0	10.7	170	8.2	0.60	6.2	114.7	4.0		
	0.8 1.1	0.2	0.5 0.8	225 170	5.5 5.6	4.2 3.8	0.76 0.68	0.52 0.47	7.3 7.2	10.7 11.9	225 170	8.4 8.5	0.50 0.60	6.6 6.4	104.6 116.2	4.6 4.1		
85	1.1	0.3	0.8	225	5.8	4.3	0.74	0.49	7.5	11.9	225	8.7	0.50	6.8	105.8	4.7		
	1.5 1.5	0.6 0.6	1.4 1.4	170 225	5.8 6.1	3.9 4.4	0.67 0.73	0.45 0.47	7.4 7.7	13.1 13.1	170 225	8.5 8.7	0.60 0.50	6.4 6.8	116.4 105.9	4.1 4.7		
	0.8	0.6	0.4	170	5.0	3.6	0.73	0.47	6.7	9.4	170	8.5	0.61	6.4	116.3	4.1		
	0.8	0.2	0.4	225	5.2	4.1	0.79	0.55	7.0	9.4	225	8.7	0.55	6.8	105.8	4.7		
90	1.1 1.1	0.3	0.7 0.7	170 225	5.3 5.5	3.7 4.2	0.70 0.76	0.49 0.52	7.0 7.3	10.7 10.7	170 225	8.6 8.8	0.62 0.55	6.5 7.0	117.0 106.4	4.1 4.7		
	1.5	0.6	1.3	170	5.5	3.8	0.69	0.48	7.1	11.5	170	8.7	0.62	6.5	117.1	4.1		
	1.5 0.8	0.6	1.3 0.4	225 170	5.7 4.4	4.3 3.4	0.75	0.50	7.4 6.4	7.6	225	8.9	0.56	7.0	106.5	4.7		
	0.8	0.2	0.4	225	4.6	3.8	0.83	0.60	6.6	7.6								
100	1.1 1.1	0.3	0.7 0.7	170 225	4.7 4.9	3.5 4.0	0.74 0.80	0.55 0.57	6.6 6.9	8.7 8.7								
	1.5	0.5	1.2	170	4.9	3.6	0.73	0.53	6.7	9.3								
	1.5	0.5	1.2	225	5.1	4.0	0.79	0.55	7.0	9.3								
	0.8 0.8	0.2	0.3 0.3	170 225	3.9 4.1	3.1 3.6	0.81 0.87	0.63 0.66	6.0 6.3	6.2 6.2								
110	1.1	0.3	0.6	170	4.2	3.3	0.78	0.60	6.2	7.0	Op	eratio	n not re	ecomn	nende	d E		
	1.1 1.5	0.3 0.5	0.6 1.2	225 170	4.4 4.3	3.7 3.3	0.85 0.77	0.62 0.58	6.5 6.3	7.0 7.4	Operation not recommended							
	1.5	0.5	1.2	225	4.5	3.8	0.83	0.61	6.6	7.4								
	0.8 0.8	0.1 0.1	0.3 0.3	170 225	3.5 3.6	3.0	0.85 0.93	0.68 0.71	5.8 6.0	5.0 5.0								
120	1.1	0.1	0.6	170	3.7	3.0	0.93	0.65	5.9	5.6								
120	1.1	0.3	0.6	225	3.8	3.4	0.90	0.68	6.2	5.6								
	1.5 1.5	0.5 0.5	1.1 1.1	170 225	3.8 4.0	3.1 3.5	0.81 0.88	0.64 0.67	6.0 6.2	6.0 6.0								
	on is permi																	

1.5 0.5 1.1 225 4.0 3.5 0.88 0.67 6.2 6.0

Interpolation is permissible; extrapolation is not.
All entering air conditions are 80°F DB and 67°F WB in cooling, and 70°F DB in heating.
AHRI/ISO certified conditions are 80.6°F DB and 66.2°F WB in cooling and 68°F DB in heating.
Table does not reflect fan or pump power corrections for AHRI/ISO conditions.
All performance is based upon the lower voltage of dual voltage rated units.
Performance stated is at the rated power supply; performance may vary as the power supply varies from the rated.
Operation below 40°F EWT is based upon a 15% methanol antifreeze solution.
Operation below 60°F EWT requires optional insulated water/refrigerant circuit.
See performance correction tables for operating conditions other than those listed above.
See Performance Data Selection Notes for operation in the shaded areas.

Performance Data - TC H/V 009 (PSC Blower)

325 CFM Nominal (Rated) Airflow

Performance capacities shown in thousands of Btuh

		WI	PD			Cooli	ing - EAT 80	/67°F				Н	eating - E	AT 70°F		
°F	GPM	PSI	FT	Airflow CFM	тс	sc	Sens/Tot Ratio	kW	HR	EER	Airflow CFM	нс	kW	HE	LAT	СОР
20	2.3 2.3	4.5 4.5	10.5 10.5		Op	eration	not reco	mmende	ed		250 330	6.5 6.7	0.73 0.66	4.2 4.4	94.2 88.8	2.6 3.0
	1.1	1.3	3.0	250	10.2	6.0	0.59	0.39	11.6	26.6	250	7.1	0.74	4.7	96.3	2.8
	1.1	1.3	3.0	330	10.7	6.8	0.64	0.40	12.0	26.6	330	7.3	0.67	5.0	90.4	3.2
30	1.7	1.9 1.9	4.4 4.4	250 330	10.5 10.9	6.0 6.8	0.57 0.62	0.36 0.37	11.7 12.2	29.5 29.5	250 330	7.4 7.6	0.75 0.67	4.9 5.3	97.4 91.2	2.9 3.3
	2.3	3.5	8.1	250	10.6	6.0	0.56	0.34	11.8	31.1	250	7.5	0.75	5.1	97.9	2.9
	2.3	3.5	8.1	330	11.0	6.8	0.61	0.36	12.3	31.1	330	7.7	0.68	5.4	91.7	3.4
	1.1 1.1	0.9 0.9	2.0 2.0	250 330	9.9 10.3	6.0 6.8	0.61 0.66	0.43 0.45	11.3 11.8	22.8 22.8	250 330	8.0 8.2	0.76 0.69	5.5 5.9	99.8 93.1	3.1 3.5
	1.7	1.5	3.5	250	10.3	6.0	0.59	0.40	11.5	25.4	250	8.4	0.69	5.8	101.1	3.2
40	1.7	1.5	3.5	330	10.5	6.8	0.64	0.41	12.0	25.4	330	8.6	0.69	6.2	94.1	3.6
	2.3	3.0	6.8	250	10.3	6.0	0.59	0.38	11.6	26.8	250	8.6	0.78	6.0	101.8	3.2
	2.3	3.0 0.6	6.8 1.5	330 250	10.7 9.4	6.8	0.64	0.40	12.0 11.1	26.9 19.5	330 250	9.0	0.70	6.4	94.7	3.7
	1.1	0.6	1.5	330	9.8	6.7	0.69	0.50	11.6	19.5	330	9.2	0.71	6.8	95.8	3.8
50	1.7	1.3	2.9	250	9.7	6.0	0.62	0.45	11.3	21.7	250	9.4	0.80	6.7	104.8	3.5
	1.7 2.3	1.3 2.6	2.9 6.0	330 250	10.1 9.9	6.8 6.0	0.67 0.61	0.47 0.43	11.7 11.3	21.7 23.0	330 250	9.6 9.6	0.72 0.80	7.2 6.9	97.0 105.6	3.9 3.5
	2.3	2.6	6.0	330	10.3	6.8	0.66	0.45	11.8	23.0	330	9.8	0.72	7.4	97.6	4.0
	1.1	0.5	1.2	250	9.0	5.9	0.65	0.54	10.8	16.5	250	9.9	0.81	7.2	106.8	3.6
	1.1	0.5	1.2	330	9.4	6.7	0.71	0.57	11.3	16.5	330	10.2	0.73	7.7	98.5	4.1
60	1.7 1.7	1.1 1.1	2.5 2.5	250 330	9.3 9.7	5.9 6.7	0.64 0.69	0.50 0.52	11.0 11.5	18.5 18.5	250 330	10.4 10.6	0.82 0.74	7.6 8.1	108.4 99.8	3.7 4.2
i i	2.3	2.3	5.4	250	9.5	6.0	0.63	0.48	11.1	19.6	250	10.6	0.83	7.8	109.3	3.7
	2.3	2.3	5.4	330	9.8	6.7	0.69	0.50	11.6	19.6	330	10.9	0.75	8.3	100.5	4.3
	1.1	0.4 0.4	0.9 0.9	250 330	8.5 8.8	5.8 6.5	0.68 0.74	0.61 0.63	10.6 11.0	14.0 14.0	250 330	10.8 11.1	0.84 0.75	8.0 8.5	110.1 101.1	3.8 4.3
70	1.7	1.0	2.3	250	8.8	5.8	0.66	0.56	10.7	15.6	250	11.3	0.85	8.4	111.9	3.9
70	1.7	1.0	2.3	330	9.2	6.6	0.72	0.59	11.2	15.6	330	11.6	0.77	9.0	102.5	4.4
	2.3	2.1	4.9	250	9.1	5.9	0.65	0.53	10.9	17.1	250	11.4	0.85	8.5	112.1	3.9
	2.3	0.3	4.9 0.8	330 250	9.5 8.0	6.7 5.6	0.71	0.55	11.3	17.1 11.8	330 250	11.6 11.7	0.77	9.0	102.7 113.3	4.4
i	1.1	0.3	0.8	330	8.3	6.3	0.77	0.70	10.7	11.8	330	12.0	0.78	9.3	103.6	4.5
80	1.7	0.9	2.1	250	8.3	5.7	0.69	0.63	10.5	13.2	250	12.2	0.88	9.1	115.1	4.0
	1.7 2.3	0.9 2.0	2.1 4.6	330 250	8.6 8.6	6.5 5.8	0.75 0.67	0.66 0.59	10.9 10.6	13.2 14.4	330 250	12.5 12.2	0.79 0.88	9.8 9.2	105.0 115.4	4.6 4.1
	2.3	2.0	4.6	330	8.9	6.5	0.73	0.62	11.1	14.4	330	12.5	0.79	9.8	105.2	4.6
	1.1	0.3	0.7	250	7.7	5.5	0.71	0.70	10.1	11.0	250	12.0	0.88	9.0	114.5	4.0
	1.1	0.3	0.7	330	8.0	6.2	0.78	0.73	10.5	11.0	330	12.3	0.80	9.6	104.6	4.6
85	1.7 1.7	0.9 0.9	2.0 2.0	250 330	8.0 8.4	5.6 6.4	0.70 0.76	0.67 0.69	10.3 10.7	12.1 12.1	250 330	12.6 12.9	0.90 0.80	9.5 10.1	116.5 106.1	4.1 4.7
	2.3	1.9	4.4	250	8.3	5.7	0.69	0.63	10.5	13.3	250	12.6	0.90	9.5	116.8	4.1
	2.3	1.9	4.4	330	8.7	6.5	0.75	0.65	10.9	13.3	330	12.9	0.80	10.2	106.3	4.7
	1.1	0.3	0.6 0.6	250 330	7.5 7.8	5.4 6.2	0.72 0.79	0.73 0.76	10.0 10.4	10.2 10.2	250 330	12.3 12.6	0.89 0.80	9.3 9.9	115.7 105.5	4.1 4.6
	1.7	0.8	1.9	250	7.7	5.5	0.73	0.70	10.1	11.1	250	12.9	0.91	9.8	117.9	4.2
90	1.7	0.8	1.9	330	8.1	6.3	0.78	0.73	10.6	11.1	330	13.3	0.82	10.5	107.2	4.8
	2.3 2.3	1.8 1.8	4.3 4.3	250 330	8.0 8.4	5.6 6.4	0.70 0.76	0.66 0.69	10.3 10.7	12.1 12.1	250 330	13.0 13.3	0.91 0.82	9.9 10.5	118.2	4.2 4.8
	1.1	0.2	0.6	250	6.8	5.1	0.76	0.89	9.6	8.2	330	13.3	0.82	10.5	107.4	4.8
	1.1	0.2	0.6	330	7.0	5.8	0.82	0.86	10.0	8.2						
100	1.7	0.8	1.7	250	7.1	5.3	0.74	0.78	9.8	9.2						
	1.7 2.3	0.8 1.7	1.7 4.0	330 250	7.4 7.3	6.0 5.4	0.81 0.73	0.81 0.75	10.2 9.9	9.2 9.7						
	2.3	1.7	4.0	330	7.6	6.1	0.73	0.78	10.3	9.7						
	1.1	0.2	0.5	250	6.1	4.8	0.79	0.90	9.2	6.8						
	1.1	0.2	0.5	330	6.3	5.4	0.85	0.94	9.5	6.8						
110	1.7 1.7	0.7 0.7	1.6 1.6	250 330	6.5 6.8	5.0 5.6	0.77 0.84	0.86 0.89	9.4 9.8	7.6 7.6	(Operatio	on not r	ecomm	ended	
	2.3	1.6	3.8	250	6.7	5.1	0.76	0.83	9.5	8.0						
	2.3	1.6	3.8	330	7.0	5.8	0.83	0.87	9.9	8.0						
	1.1	0.2	0.4	250	5.4 5.6	4.4 5.0	0.82	0.98	8.7	5.5 5.5						
	1.1	0.2 0.7	0.4 1.6	330 250	5.6 5.8	5.0 4.6	0.89 0.80	1.02 0.94	9.1 9.0	5.5 6.2						
120	1.7	0.7	1.6	330	6.0	5.2	0.87	0.98	9.4	6.2						
	2.3	1.6	3.6	250	6.0	4.7	0.79	0.91	9.1	6.5						
	2.3	1.6	3.6	330	6.2	5.4	0.86	0.95	9.5	6.5						

Interpolation is permissible; extrapolation is not.

All entering air conditions are 80°F DB and 67°F WB in cooling, and 70°F DB in heating.

AHRI/ISO certified conditions are 80.6°F DB and 66.2°F WB in cooling and 68°F DB in heating.

Table does not reflect fan or pump power corrections for AHRI/ISO conditions.

All performance is based upon the lower voltage of dual voltage rated units.

Performance stated is at the rated power supply; performance may vary as the power supply varies from the rated.

Operation below 40°F EWT is based upon a 15% methanol antifreeze solution.

Operation below 60°F EWT requires optional insulated water/ferifigerant circuit.

See performance correction tables for operating conditions other than those listed above.

See Performance Data Selection Notes for operation in the shaded areas.

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Performance Data - TC H/V 012 (PSC Blower)

400 CFM Nominal (Rated) Airflow

Performance capacities shown in thousands of Btuh

EWT	0514	WI								Не	eating -	EAT 7	0°F					
°F	GPM	PSI	FT	Airflow CFM	тс	sc	Sens/Tot Ratio	kW	HR	EER	Airflow CFM	НС	kW	HE	LAT	СОР		
20	3.0 3.0	8.5 8.5	19.6 19.6		0	peration	not reco	mmend	ed		300 400	8.5 8.7	0.98 0.88	5.3 5.7	96.2 90.2	2.5 2.9		
	1.5	1.9	4.3	300	14.2	8.2	0.58	0.55	16.1	25.8	300	9.3	1.00	6.0	98.6	2.7		
	1.5 2.3	1.9 3.6	4.3 8.4	400 300	14.8 14.3	9.3 8.2	0.63 0.58	0.57 0.51	16.8 16.1	25.8 27.9	400 300	9.5 9.6	0.90 1.01	6.4 6.3	91.9 99.7	3.1 2.8		
30	2.3	3.6	8.4	400	14.3	9.3	0.63	0.53	16.7	27.9	400	9.9	0.91	6.8	92.8	3.2		
	3.0	6.7	15.5	300	14.3	8.2	0.58	0.50	16.0	28.8	300	9.8	1.02	6.5	100.4	2.8		
	3.0 1.5	6.7 1.4	15.5 3.2	400 300	14.9 14.0	9.3	0.63	0.52	16.6 16.0	28.8	400 300	10.1	0.92 1.04	7.0	93.3	3.2		
	1.5	1.4	3.2	400	14.5	9.2	0.63	0.63	16.7	22.9	400	10.8	0.93	7.6	95.0	3.4		
40	2.3 2.3	3.0 3.0	6.9 6.9	300 400	14.2 14.8	8.2 9.3	0.58 0.63	0.57 0.59	16.1 16.8	25.1 25.1	300 400	11.0 11.3	1.05 0.94	7.6 8.1	104.1 96.2	3.1 3.5		
	3.0	5.7	13.1	300	14.3	8.2	0.58	0.54	16.1	26.2	300	11.3	1.06	7.8	104.9	3.1		
	3.0	5.7	13.1	400	14.8	9.3	0.63	0.57	16.8	26.2	400	11.6	0.95	8.3	96.8	3.6		
	1.5 1.5	1.1 1.1	2.5 2.5	300 400	13.5 14.1	7.9 8.9	0.58 0.63	0.67 0.70	15.8 16.5	20.1 20.1	300 400	11.9 12.2	1.08 0.97	8.3 8.9	106.8 98.2	3.2 3.7		
50	2.3	2.6	6.0	300	13.9	8.0	0.58	0.62	16.0	22.2	300	12.5	1.09	8.9	108.6	3.4		
	2.3 3.0	2.6 5.0	6.0 11.5	400 300	14.4 14.0	9.1 8.1	0.63 0.58	0.65 0.60	16.7 16.1	22.2 23.3	400 300	12.8 0.98 9.5 99.6 12.8 1.10 9.1 109.6				3.8 3.4		
	3.0	5.0	11.5	400	14.6	9.2	0.63	0.63	16.7	23.3	400	13.1	0.99	9.8	100.4	3.9		
	1.5 1.5	0.9 0.9	2.1 2.1	300 400	12.9 13.5	7.6 8.6	0.59 0.64	0.74 0.77	15.5 16.1	17.4 17.4	300 400	13.3 13.6	1.11 1.00	9.6 10.2	111.1 101.5	3.5 4.0		
60	2.3	2.3	5.3	300	13.4	7.8	0.58	0.69	15.7	19.3	300	14.0	1.13	10.2	113.1	3.6		
00	2.3 3.0	2.3 4.5	5.3 10.3	400 300	13.9 13.6	8.8 7.9	0.63 0.58	0.72 0.67	16.4 15.8	19.3 20.4	400 300	14.3 14.3	1.02 1.14	10.8 10.5	103.1 114.2	4.1 3.7		
	3.0	4.5	10.3	400	14.1	8.9	0.63	0.69	16.5	20.4	400	14.3	1.03	11.2	104.0	4.2		
	1.5	0.8	1.8	300	12.2	7.3	0.60	0.82	15.0	14.9	300	14.7	1.15	10.8	115.3	3.7		
	1.5 2.3	0.8 2.1	1.8 4.8	400 300	12.7 12.5	8.3 7.4	0.65 0.59	0.85 0.77	15.6 15.2	14.9 16.3	400 300	15.0 15.4	1.04 1.18	11.5 11.4	104.8 117.6	4.2 3.8		
70	2.3	2.1	4.8	400	13.1	8.4	0.64	0.80	15.8	16.3	400	15.8	1.06	12.2	106.5	4.4		
	3.0 3.0	4.1 4.1	9.5 9.5	300 400	12.7 13.3	7.5 8.5	0.59 0.64	0.75 0.78	15.3 15.9	17.0 17.0	300 400	15.8 16.2	1.19 1.07	11.7 12.5	118.8 107.5	3.9 4.4		
	1.5	0.7	1.5	300	11.4	7.0	0.61	0.90	14.5	12.7	300	16.0	1.20	11.9	119.4	3.9		
	1.5 2.3	0.7 1.9	1.5 4.4	400 300	11.9 11.8	7.9 7.1	0.67 0.60	0.94 0.85	15.1 14.7	12.7 13.9	400 300	16.4 16.8	1.08 1.22	12.7 12.6	108.0 121.7	4.5 4.0		
80	2.3	1.9	4.4	400	12.3	8.0	0.65	0.88	15.3	13.9	400	17.2	1.10	13.4	109.8	4.6		
	3.0 3.0	3.8 3.8	8.8 8.8	300 400	12.0 12.5	7.2	0.60	0.83 0.86	14.8 15.4	14.5 14.5	300 400	17.2	1.24	12.9	123.0 110.7	4.1 4.6		
	1.5	0.6	1.5	300	10.9	8.1 6.8	0.65 0.62	0.86	14.2	11.7	300	17.6 16.6	1.11	13.8 12.5	121.3	4.0		
	1.5	0.6	1.5	400	11.4	7.7	0.68	0.98	14.7	11.7	400	17.0	1.1	13.3	109.4	4.6		
85	2.3	1.8 1.8	4.2 4.2	300 400	11.4 11.9	6.9 7.9	0.61 0.66	0.89 0.93	14.4 15.0	12.8 12.8	300 400	17.4 17.8	1.3 1.1	13.1 14.0	123.6 111.2	4.1 4.6		
	3.0	3.7	8.5	300	11.6	7.0	0.60	0.87	14.5	13.4	300	17.7	1.3	13.4	124.8	4.1		
	3.0 1.5	3.7 0.6	8.5 1.4	400 300	12.1 10.5	7.9 6.7	0.66	0.90	15.1 13.9	13.4 10.7	400 300	18.2 17.3	1.1 1.24	14.3	112.1 123.3	4.7 4.1		
	1.5	0.6	1.4	400	10.9	7.5	0.69	1.03	14.4	10.7	400	17.7	1.12	13.9	110.9	4.6		
90	2.3 2.3	1.8 1.8	4.1 4.1	300 400	11.0 11.4	6.8 7.7	0.62 0.67	0.93 0.97	14.1 14.7	11.7 11.7	300 400	18.0 18.4	1.28 1.15	13.6 14.5	125.5 112.6	4.1 4.7		
	3.0	3.6	8.2	300	11.4	6.8	0.61	0.91	14.7	12.3	300	18.3	1.13	13.9	126.6	4.7		
	3.0	3.6 0.5	8.2	400	11.6	7.7	0.67	0.95	14.8	12.3	400	18.8	1.16	14.8	113.5	4.7		
	1.5 1.5	0.5 0.5	1.2 1.2	300 400	9.5 9.9	6.4 7.2	0.67 0.72	1.07 1.12	13.2 13.8	8.9 8.9								
100	2.3	1.7	3.8	300	10.1	6.5	0.65	1.02	13.5	9.8								
100	2.3 3.0	1.7 3.3	3.8 7.7	400 300	10.5 10.4	7.3 6.6	0.70 0.64	1.06 1.00	14.1 13.8	9.8 10.4								
	3.0	3.3	7.7	400	10.8	7.5	0.69	1.04	14.3	10.4								
	1.5 1.5	0.5 0.5	1.1 1.1	300 400	8.5 8.9	6.0 6.8	0.71 0.77	1.17 1.22	12.5 13.1	7.3 7.3								
110	2.3	1.6	3.6	300	9.1	6.2	0.68	1.12	12.9	8.1		0	otion mot	ro o o o o o o	00000			
110	2.3	1.6	3.6	400	9.4	7.0	0.74	1.16	13.4	8.1		Operation not recommended						
	3.0 3.0	3.2 3.2	7.3 7.3	300 400	9.4 9.8	6.3 7.1	0.67 0.73	1.09 1.14	13.1 13.7	8.6 8.6								
	1.5	0.4	1.0	300	7.5	5.7	0.76	1.27	11.8	5.9								
	1.5 2.3	0.4 1.5	1.0 3.4	400 300	7.8 8.0	6.4 5.8	0.82 0.73	1.32 1.22	12.3 12.2	5.9 6.6								
120	2.3	1.5	3.4	400	8.3	6.6	0.79	1.27	12.7	6.6								
	3.0 3.0	3.0 3.0	7.0 7.0	300 400	8.3 8.7	5.9 6.7	0.71 0.77	1.19 1.24	12.4 12.9	7.0 7.0								
	0.0	0.0	7.0	-100	0.7	0.7	0.77	1.47	12.0	7.0								

Interpolation is permissible; extrapolation is not.

All entering air conditions are 80°F DB and 67°F WB in cooling, and 70°F DB in heating.

AHRI/SO certified conditions are 80.0°F DB and 66.2°F WB in cooling and 68°F DB in heating.

Table does not reflect fan or pump power corrections for AHRI/ISO conditions.

All performance is based upon the lower voltage of dual voltage rated units.

Performance stated is at the rated power supply, performance may vary as the power supply varies from the rated.

Operation below 40°F EWT is based upon a 15% methanol antifreeze solution.

Operation below 60°F EWT requires optional insulated water/refrigerant circuit.

See performance correction tables for operating conditions other than those listed above.

See Performance Data Selection Notes for operation in the shaded areas.

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Service Department at 1-405-745-6000 for specific information on the current design and specifications. Statements and other information contained herein are not express warranties and do not form the basis of any bargain between the parties	es,
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Performance Data - TC H/V 015 (PSC Blower)

525 CFM Nominal (Rated) Airflow

Performance capacities shown in thousands of Btuh

EWT °F	0.014	W	WPD Cooling - EAT 80/67°F SI FT Airflow CFM TC SC Sens/Tot Ratio kW HR EER Airflow CFM						Не	eating -	EAT 7	0°F						
°F	GPM	PSI	FT		TC	sc		kW	HR	EER	Airflow CFM	НС	kW	HE	LAT	СОР		
20	3.8 3.8	4.1 4.1	9.5 9.5		0	peration	not reco	mmend	ed		395 525	9.5 9.8	1.07 0.96	6.1 6.5	92 87	2.62 2.98		
	1.9	1.0	2.3	395	17.3	10.8	0.62	0.61	19.4	28.4	395	10.6	1.09	7.1	95	2.84		
00	1.9 2.8	1.0 1.8	2.3 4.3	525 395	18.1 17.5	12.2 10.8	0.67 0.62	0.64 0.56	20.2 19.4	28.4 31.1	525 395	10.9 11.1	0.98 1.11	7.5 7.5	89 96	3.24 2.94		
30	2.8	1.8	4.3 7.7	525 395	18.2	12.2	0.67	0.59	20.2	31.1	525	11.4	0.99	8.0 7.7	90 97	3.35		
	3.8 3.8	3.3 3.3	7.7	525	17.5 18.3	10.8 12.2	0.62 0.67	0.54 0.57	19.4 20.2	32.2 32.2	395 525	11.3 11.6	1.11 1.00	8.2	90	2.99 3.41		
	1.9	0.8	1.8	395	17.0	10.6	0.63	0.68	19.3	24.8	395	12.3	1.13	8.5	99	3.18		
40	1.9 2.8	0.8 1.6	1.8 3.6	525 395	17.7 17.2	12.0 10.7	0.68 0.62	0.71 0.63	20.1 19.4	24.8 27.3	525 395	12.6 12.8	1.02 1.14	9.1 9.0	92 100	3.62 3.29		
40	2.8	1.6	3.6	525	18.0	12.1	0.68	0.66	20.2	27.3	525	13.1	1.03	9.7	93	3.75		
	3.8 3.8	2.9 2.9	6.6 6.6	395 525	17.4 18.1	10.8 12.2	0.62 0.67	0.60 0.63	19.4 20.2	28.8 28.8	395 525	13.1 13.5	1.15 1.03	9.3 10.0	101 94	3.35 3.82		
	1.9	0.6	1.5	395	16.4	10.4	0.63	0.76	19.0	21.6	395	13.9	1.16	10.0	103	3.50		
	1.9 2.8	0.6 1.4	1.5 3.1	525 395	17.1 16.8	11.8 10.6	0.69 0.63	0.79 0.71	19.8 19.2	21.6 23.8	525 395	14.2 1.05 10.7 95 3.99 14.6 1.18 10.6 104 3.63 14.9 1.06 11.3 96 4.13						
50	2.8	1.4	3.1	525	17.5	12.0	0.68	0.74	20.0	23.8	525	14.9	4.13					
	3.8 3.8	2.5 2.5	5.8 5.8	395 525	17.0 17.7	10.6 12.0	0.63 0.68	0.68 0.71	19.3 20.1	25.0 25.0	395 525	14.9 15.3	1.18 1.06	10.9 11.7	105 97	3.69 4.21		
	1.9	0.6	1.3	395	15.7	10.2	0.65	0.84	18.6	18.7	395	15.5	1.20	11.5	106	3.81		
	1.9 2.8	0.6 1.2	1.3 2.8	525 395	16.4 16.2	11.5 10.4	0.70 0.64	0.88 0.79	19.4 18.9	18.7 20.5	525 395	15.9 16.3	1.07 1.21	12.2 12.1	98 108	4.34 3.94		
60	2.8	1.2	2.8	525	16.9	11.7	0.69	0.82	19.7	20.5	525	16.7	1.09	13.0	99	4.50		
	3.8 3.8	2.3 2.3	5.3 5.3	395 525	16.4 17.1	10.4 11.8	0.63 0.69	0.76 0.79	19.0 19.8	21.6 21.6	395 525	16.7 17.1	1.22 1.09	12.5 13.3	109 100	4.02 4.58		
	1.9	0.5	1.1	395	15.2	10.1	0.66	0.93	18.3	16.2	395	17.1	1.22	12.9	110	4.10		
	1.9 2.8	0.5 1.1	1.1 2.5	525 395	15.8 15.5	11.4 10.1	0.72 0.65	0.97 0.88	19.1 18.5	16.3 17.6	525 395	17.5 18.0	1.10 1.24	13.8 13.7	101 112	4.68 4.25		
70	2.8	1.1	2.5	525	16.1	11.4	0.71	0.91	19.2	17.6	525	18.4	1.11	14.6	102	4.85		
	3.8 3.8	2.1 2.1	4.9 4.9	395 525	15.8 16.4	10.2 11.5	0.65 0.70	0.85 0.88	18.6 19.4	18.6 18.6	395 525	18.4 18.8	1.25 1.12	14.1 15.0	113 103	4.33 4.94		
	1.9	0.4	1.0	395	14.3	9.8	0.68	1.03	17.8	13.9	395	18.7	1.25	14.3	114	4.38		
	1.9 2.8	0.4 1.0	1.0 2.4	525 395	14.9 14.7	11.1 9.8	0.74 0.67	1.07 0.97	18.5 18.0	13.9 15.1	525 395	19.2 19.6	1.12 1.27	15.3 15.1	104 116	5.00 4.54		
80	2.8	1.0	2.4	525	15.3	11.1	0.73	1.01	18.7	15.1	525	20.1	1.14	16.2	105	5.18		
	3.8 3.8	2.0 2.0	4.6 4.6	395 525	14.9 15.6	9.9 11.2	0.66 0.72	0.94 0.98	18.2 18.9	15.9 15.9	395 525	20.1 20.6	1.27 1.14	15.6 16.6	117 106	4.62 5.27		
	1.9	0.4	0.9	395	13.8	9.6	0.70	1.1	17.5	12.8	395	19.5	1.26	15.0	116	4.52		
	1.9 2.8	0.4 1.0	0.9 2.3	525 395	14.4 14.2	10.9 9.7	0.76 0.68	1.13 1.02	18.2 17.7	12.8 13.9	525 395	19.9 20.4	1.13 1.28	16.0 15.9	105 118	5.15 4.68		
85	2.8	1.0	2.3	525	14.8	11.0	0.74	1.07	18.4	13.9	525	20.9	1.15	16.9	107	5.34		
	3.8 3.8	1.9 1.9	4.4 4.4	395 525	14.5 15.1	9.8 11.1	0.67 0.73	0.99 1.03	17.9 18.6	14.7 14.7	395 525	20.9 21.4	1.29 1.15	16.3 17.4	119 108	4.77 5.43		
	1.9	0.4	0.9	395	13.3	9.5	0.71	1.14	17.2	11.7	395	20.2	1.28	15.7	117	4.65		
	1.9 2.8	0.4 1.0	0.9 2.2	525 395	13.9 13.7	10.7 9.5	0.77 0.69	1.19 1.08	18.0 17.4	11.7 12.8	525 395	20.7 21.2	1.15 1.29	16.8 16.6	107 120	5.30 4.82		
90	2.8	1.0	2.2	525	14.3	10.8	0.75	1.12	18.1	12.8	525	21.7	1.16	17.7	108	5.49		
	3.8 3.8	1.9 1.9	4.3 4.3	395 525	14.1 14.6	9.6 10.9	0.69 0.74	1.04 1.08	17.6 18.3	13.5 13.5	395 525	21.7 22.2	1.30 1.17	17.1 18.2	121 109	4.90 5.59		
	1.9	0.4	0.8	395	12.4	9.2	0.74	1.25	16.6	9.9	323	22.2	1.17	10.2	107	5.57		
	1.9 2.8	0.4 0.9	0.8 2.1	525 395	12.9 12.8	10.4 9.2	0.80 0.72	1.31 1.19	17.3 16.8	9.9 10.8								
100	2.8	0.9	2.1	525	13.3	10.4	0.78	1.23	17.5	10.8								
	3.8 3.8	1.8 1.8	4.1 4.1	395 525	13.1 13.6	9.3 10.5	0.71 0.77	1.15 1.20	17.0 17.7	11.4 11.4								
	1.9	0.3	0.7	395	11.3	8.8	0.78	1.37	16.0	8.3		Operation not recommended						
	1.9 2.8	0.3	0.7 1.9	525 395	11.8 11.8	10.0 8.9	0.84 0.75	1.43 1.30	16.7 16.2	8.3 9.0								
110	2.8	0.8	1.9	525	12.2	10.0	0.73	1.36	16.2	9.0		Opera	ation not	recomm	nended			
	3.8 3.8	1.7 1.7	3.9 3.9	395 525	12.1 12.6	9.0 10.2	0.74 0.81	1.27 1.32	16.4 17.1	9.5 9.5								
	1.9	0.3	0.7	395	10.3	8.5	0.82	1.50	15.5	6.9								
	1.9	0.3	0.7	525	10.8	9.6	0.89	1.56	16.1	6.9								
120	2.8 2.8	0.8 0.8	1.8 1.8	395 525	10.7 11.2	8.5 9.6	0.79 0.86	1.43 1.48	15.6 16.2	7.5 7.5								
	3.8	1.6	3.7	395	11.0	8.6	0.78	1.39	15.8	7.9								
	3.8	1.6	3.7	525	11.5	9.8	0.85	1.45	16.4	7.9								

Interpolation is permissible; extrapolation is not.

All entering air conditions are 80°F DB and 67°F WB in cooling, and 70°F DB in heating.

AHRI/SO certified conditions are 80.6°F DB and 66.2°F WB in cooling and 68°F DB in heating.

Table does not reflect fan or pump power corrections for AHRI/ISO conditions.

All performance is based upon the lower voltage of dual voltage rated units.

Performance stated is at the rated power supply; performance may vary as the power supply varies from the rated.

Operation below 40°F EWT requires optional insulated water/refrigerant circuit.

See performance correction tables for operating conditions other than those listed above.

See Performance Data Selection Notes for operating conditions other than those listed above.

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Performance Data - TC H/V 015 (ECM Blower)

500 CFM Nominal (Rated) Airflow

Performance capacities shown in thousands of Btuh

EWT °F GPM		W	PD	Cooling - EAT 80/67°F								Heating - EAT 70°F						
	GPM	PSI	FT	Airflow CFM	тс	sc	Sens/Tot Ratio	kW	HR	EER	Airflow CFM	нс	kW	HE	LAT	СОР		
20	3.8 3.8	4.1 4.1	9.5 9.5		С	peration	not reco	mmende	ed		395 500	9.6 9.6	1.01 0.90	6.1 6.5	92.0 87.0	2.8 3.1		
	1.9	1.0	2.3	395	17.3	10.8	0.62	0.55	19.2	31.3	395	10.6	1.03	7.1	95.0	3.0		
	1.9	1.0	2.3	500	18.1	12.2	0.67	0.58	20.1	31.0	500	10.7	0.92	7.5	89.0	3.4		
30	2.8 2.8	1.8 1.8	4.3 4.3	395 500	17.5 18.2	10.8 12.2	0.62 0.67	0.50 0.53	19.2 20.0	34.8 34.1	395 500	11.1 11.2	1.05 0.93	7.5 8.0	96.0 90.0	3.1 3.5		
	3.8	3.3	7.7	395	17.5	10.8	0.62	0.33	19.1	36.2	395	11.3	1.05	7.7	97.0	3.1		
	3.8	3.3	7.7	500	18.3	12.2	0.67	0.51	20.1	35.6	500	11.4	0.94	8.2	90.0	3.5		
	1.9	0.8	1.8	395	17.0	10.6	0.62	0.62	19.1	27.3	395	12.2	1.07	8.5	99.0	3.3		
	1.9	0.8	1.8	500	17.7	12.0	0.68	0.65	19.9	27.1	500	12.4	0.96	9.1	92.0	3.8		
40	2.8 2.8	1.6 1.6	3.6 3.6	395 500	17.2 18.0	10.7 12.1	0.62 0.67	0.57 0.60	19.2 20.1	30.0 29.8	395 500	12.7 13.0	1.08 0.97	9.0 9.7	100.0 93.0	3.4 3.9		
	3.8	2.9	6.6	395	17.4	10.8	0.62	0.54	19.3	32.0	395	13.0	1.09	9.3	101.0	3.5		
	3.8	2.9	6.6	500	18.1	12.2	0.67	0.57	20.1	31.6	500	13.3	0.97	10.0	94.0	4.0		
	1.9	0.6	1.5	395	16.4	10.4	0.63	0.70	18.8	23.3	395	13.8	1.10	10.0	103.0	3.7		
	1.9 2.8	0.6 1.4	1.5 3.1	500 395	17.1 16.8	11.8 10.6	0.69 0.63	0.73 0.65	19.6 19.0	23.3 25.7	500 395	14.1 14.4	0.99 1.12	10.7 10.6	95.0 104.0	4.2 3.8		
50	2.8	1.4	3.1	500	17.5	12.0	0.69	0.68	19.8	25.6	500	14.7 1.00 11.3 96.0 4						
ı	3.8	2.5	5.8	395	17.0	10.6	0.62	0.62	19.1	27.3	395	14.7	1.12	10.9	105.0	3.8		
	3.8	2.5	5.8	500	17.7	12.0	0.68	0.65	19.9	27.1	500	15.1	1.00	11.7	97.0	4.4		
	1.9 1.9	0.6 0.6	1.3 1.3	395 500	15.7 16.4	10.2 11.5	0.65 0.70	0.78 0.82	18.4 19.2	20.0 19.9	395 500	15.4 15.7	1.14 1.01	11.5 12.2	106.0 98.0	3.9 4.5		
	2.8	1.2	2.8	395	16.2	10.4	0.70	0.62	18.7	22.1	395	16.0	1.15	12.2	108.0	4.5		
60	2.8	1.2	2.8	500	16.9	11.7	0.69	0.76	19.5	22.1	500	16.5	1.03	13.0	99.0	4.7		
	3.8	2.3	5.3	395	16.4	10.4	0.63	0.70	18.8	23.3	395	16.5	1.16	12.5	109.0	4.1		
	3.8	2.3	5.3	500	17.1	11.8	0.69	0.73	19.6	23.3	500	16.8	1.03	13.3	100.0	4.8		
	1.9 1.9	0.5 0.5	1.1 1.1	395 500	15.2 15.8	10.1 11.4	0.66 0.72	0.87 0.91	18.2 18.9	17.4 17.3	395 500	16.9 17.4	1.16 1.04	12.9 13.8	110.0 101.0	4.2 4.9		
70	2.8	1.1	2.5	395	15.5	10.1	0.65	0.82	18.3	18.8	395	17.7	1.18	13.7	112.0	4.4		
70	2.8	1.1	2.5	500	16.1	11.4	0.71	0.85	19.0	18.9	500	18.2	1.05	14.6	102.0	5.1		
	3.8	2.1	4.9	395	15.8	10.2	0.65	0.79	18.5	19.9	395	18.2	1.19	14.1	113.0	4.5		
	3.8 1.9	0.4	4.9 1.0	500 395	16.4 14.3	9.8	0.70	0.82	19.2 17.6	19.9 14.7	500 395	18.6 18.4	1.06	15.0 14.3	103.0 114.0	5.1 4.5		
	1.9	0.4	1.0	500	14.9	11.1	0.09	1.01	18.4	14.7	500	18.9	1.06	15.3	104.0	5.2		
80	2.8	1.0	2.4	395	14.7	9.8	0.67	0.91	17.8	16.1	395	19.2	1.21	15.1	116.0	4.6		
00	2.8	1.0	2.4	500	15.3	11.1	0.73	0.95	18.6	16.0	500	19.9	1.08	16.2	105.0	5.4		
	3.8 3.8	2.0 2.0	4.6	395 500	14.9	9.9 11.2	0.66	0.88	17.9	16.9	395 500	19.7 20.3	1.21	15.6	117.0	4.8		
	1.9	0.4	4.6 0.9	395	15.6 13.8	9.6	0.72	0.92 1.04	18.8 17.4	16.9 13.2	395	19.1	1.08	16.6 15.0	106.0 116.0	5.5 4.7		
	1.9	0.4	0.9	500	14.4	10.9	0.76	1.07	18.1	13.4	500	19.7	1.07	16.0	105.0	5.4		
85	2.8	1.0	2.3	395	14.2	9.7	0.68	0.96	17.5	14.7	395	20.1	1.22	15.9	118.0	4.8		
03	2.8	1.0	2.3	500	14.8	11.0	0.74	1.01	18.3	14.6	500	20.6	1.09	16.9	107.0	5.5		
	3.8 3.8	1.9 1.9	4.4 4.4	395 500	14.5 15.1	9.8 11.1	0.68 0.74	0.93 0.97	17.7 18.4	15.5 15.5	395 500	20.5 21.1	1.23 1.09	16.3 17.4	119.0 108.0	4.9 5.7		
	1.9	0.4	0.9	395	13.3	9.5	0.71	1.08	17.0	12.3	395	19.9	1.22	15.7	117.0	4.8		
	1.9	0.4	0.9	500	13.9	10.7	0.77	1.13	17.8	12.3	500	20.5	1.09	16.8	107.0	5.5		
90	2.8	1.0	2.2	395	13.7	9.5	0.69	1.02	17.2	13.4	395	20.8	1.23	16.6	120.0	4.9		
	2.8 3.8	1.0 1.9	2.2 4.3	500 395	14.3 14.1	10.8 9.6	0.76 0.68	1.06 0.98	17.9 17.5	13.4 14.3	500 395	21.5 21.3	1.10 1.24	17.7 17.1	108.0 121.0	5.7 5.0		
	3.8	1.9	4.3	500	14.1	10.9	0.75	1.02	18.1	14.3	500	22.0	1.11	18.2	109.0	5.8		
	1.9	0.4	0.8	395	12.4	9.2	0.74	1.19	16.5	10.4								
	1.9	0.4	0.8	500	12.9	10.4	0.81	1.25	17.2	10.3								
100	2.8 2.8	0.9 0.9	2.1 2.1	395 500	12.8 13.3	9.2 10.4	0.72 0.78	1.13 1.17	16.7 17.3	11.3 11.3								
	3.8	1.8	4.1	395	13.3	9.3	0.76	1.09	16.8	12.0								
	3.8	1.8	4.1	500	13.6	10.5	0.77	1.14	17.5	11.9								
	1.9	0.3	0.7	395	11.3	8.8	0.78	1.31	15.8	8.6								
	1.9	0.3	0.7	500	11.8	10.0	0.85	1.37	16.5	8.6								
110	2.8 2.8	0.8 0.8	1.9 1.9	395 500	11.8 12.2	8.9 10.0	0.75 0.82	1.24 1.30	16.0 16.6	9.5 9.4		Opera	tion not	recomm	nended			
	3.8	1.7	3.9	395	12.1	9.0	0.74	1.21	16.2	10.0	0							
	3.8	1.7	3.9	500	12.6	10.2	0.81	1.26	16.9	10.0	.0							
	1.9	0.3	0.7	395	10.3	8.5	0.83	1.44	15.2	7.1								
	1.9 2.8	0.3 0.8	0.7 1.8	500 395	10.8 10.7	9.6 8.5	0.89 0.79	1.50 1.37	15.9 15.4	7.2 7.8								
120	2.8	0.8	1.8	500	11.2	9.6	0.79	1.42	16.1	7.8 7.9								
	3.8	1.6	3.7	395	11.0	8.6	0.78	1.33	15.5	8.2								
	3.8	1.6	3.7	500	11.5	9.8	0.85	1.39	16.3	8.3								

Interpolation is permissible; extrapolation is not.

All entering air conditions are 80°F DB and 67°F WB in cooling, and 70°F DB in heating.

AHRI/ISO certified conditions are 80.0°F DB and 66.2°F WB in cooling and 68°F DB in heating.

Table does not reflect fan or pump power corrections for AHRI/ISO conditions.

All performance is based upon the lower voltage of dual voltage rated units.

Performance stated is at the rated power supply; performance may vary as the power supply varies from the rated.

Operation below 40°F EWT is based upon a 15% methanol antifreeze solution.

Operation below 60°F EWT requires optional insulated water/refrigerant circuit.

See performance correction tables for operating conditions other than those listed above.

See Performance Data Selection Notes for operation in the shaded areas.

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Performance Data - TC H/V 018 (PSC Blower)

600 CFM Nominal (Rated) Airflow

Performance capacities shown in thousands of Btuh

EWT	05:1	W	PD		(Cooling	g - EAT	80/67°	F			Не	eating -	EAT 7	0°F		
°F	GPM	PSI	FT	Airflow CFM	TC	sc	Sens/Tot Ratio	kW	HR	EER	Airflow CFM	нс	kW	HE	LAT	СОР	
20	4.5 4.5	7.2 7.2	16.7 16.7		0	peration	not reco	mmend	ed		450 600	11.2 11.4	1.25 1.13	7.2 7.6	93 88	2.61 2.98	
	2.3	2.1	4.9	450	22.1	14.2	0.64	0.72	24.5	30.7	450	12.4	1.29	8.2	96	2.83	
30	2.3 3.4	2.1 3.4	4.9 7.9	600 450	23.0 22.9	16.1 14.4	0.70 0.63	0.75 0.64	25.5 25.1	30.8 35.8	600 450	12.7 12.9	1.16 1.30	8.8 8.7	90 97	3.22 2.92	
30	3.4	3.4	7.9	600	23.9	16.3	0.68	0.67	26.1	35.8	600	13.3	1.17	9.3	90	3.33	
	4.5 4.5	5.9 5.9	13.7 13.7	450 600	23.3 24.3	14.4 16.3	0.62 0.67	0.60 0.62	25.3 26.4	39.0 39.0	450 600	13.2 13.5	1.31 1.17	9.0 9.6	97 91	2.97 3.38	
	2.3	1.7	3.9	450	21.1	13.9	0.66	0.82	23.9	25.6	450	14.3	1.33	9.9	99	3.15	
40	2.3 3.4	1.7 2.9	3.9 6.7	600 450	22.0 21.9	15.7 14.2	0.72 0.65	0.86 0.75	24.9 24.4	25.6 29.3	600 450	14.7 15.0	1.20 1.35	10.6 10.5	93 101	3.59 3.26	
40	3.4	2.9	6.7	600	22.8	16.0	0.70	0.78	25.4	29.3	600	15.3	1.21	11.2	94	3.72	
	4.5 4.5	5.1 5.1	11.8 11.8	450 600	22.5 23.5	14.5 16.4	0.64 0.70	0.71 0.74	24.9 25.9	31.9 31.9	450 600	15.3 15.7	1.35 1.22	10.8 11.6	102 94	3.32 3.78	
	2.3	1.4	3.3	450	20.4	13.7	0.67	0.93	23.5	21.9	450	16.3	1.37	11.7	103	3.47	
F0	2.3 3.4	1.4 2.6	3.3 5.9	600 450	21.2 20.8	15.5 13.8	0.73 0.66	0.97 0.85	24.5 23.7	22.0 24.4	600 450	16.6 17.0	1.23 1.39	12.5 12.4	96 105	3.96 3.60	
50	3.4	2.6	5.9	600	21.7	15.6	0.72	0.89	24.7	24.4	600	17.4	1.25	13.2	97	4.10	
	4.5 4.5	4.6 4.6	10.6 10.6	450 600	21.2 22.1	13.9 15.8	0.66 0.72	0.81 0.85	23.9 24.9	26.1 26.1	450 600	17.4 17.9	1.39 1.25	12.7 13.6	106 98	3.67 4.18	
	2.3	1.3	2.9	450	19.3	13.2	0.68	1.04	22.8	18.6	450	18.2	1.41	13.4	107	3.79	
	2.3 3.4	1.3 2.3	2.9 5.3	600 450	20.1 19.8	14.9 13.4	0.74 0.68	1.08 0.96	23.8 23.0	18.6 20.6	600 450	18.6 19.1	1.26 1.42	14.3 14.2	99 109	4.32 3.93	
60	3.4	2.3	5.3	600	20.6	15.1	0.73	1.00	24.0	20.6	600	19.6	1.28	15.2	100	4.49	
	4.5 4.5	4.2 4.2	9.6 9.6	450 600	20.1 21.0	13.5 15.3	0.67 0.73	0.92 0.96	23.3 24.2	21.9 21.9	450 600	19.6 20.1	1.43 1.29	14.7 15.7	110 101	4.01 4.58	
	2.3	1.1	2.6	450	18.2	12.7	0.69	1.15	22.1	15.8	450	20.2	1.44	15.2	112	4.11	
	2.3	1.1 2.1	2.6 4.9	600 450	19.0 18.7	14.3 12.8	0.76 0.69	1.20 1.07	23.1 22.3	15.8 17.4	600 450	20.7 21.2	1.29 1.46	16.2 16.1	102 114	4.68 4.27	
70	3.4	2.1	4.9	600	19.4	14.5	0.75	1.12	23.2	17.4	600	21.7	1.31	17.2	103	4.86	
	4.5 4.5	3.9 3.9	8.9 8.9	450 600	19.1 19.8	13.0 14.7	0.68 0.74	1.03 1.08	22.6 23.5	18.4 18.4	450 600	21.7 22.3	1.46 1.32	16.6 17.8	115 104	4.35 4.96	
	2.3	1.0	2.3	450	17.0	12.1	0.74	1.28	21.4	13.3	450	22.1	1.47	17.0	116	4.41	
	2.3 3.4	1.0 2.0	2.3 4.5	600 450	17.7 17.5	13.7 12.3	0.77 0.70	1.33 1.20	22.3 21.6	13.3 14.7	600 450	22.7 23.3	1.32 1.49	18.2 18.0	105 118	5.03 4.59	
80	3.4	2.0	4.5	600	18.3	13.9	0.76	1.25	22.5	14.7	600	23.9	1.34	19.3	107	5.23	
	4.5 4.5	3.6 3.6	8.3 8.3	450 600	17.9 18.7	12.5 14.1	0.69 0.76	1.15 1.20	21.9 22.8	15.5 15.5	450 600	23.9 24.5	1.50 1.35	18.6 19.9	119 108	4.68 5.34	
	2.3	1.0	2.2	450	16.4	11.8	0.72	1.35	21.0	12.2	450	23.1	1.49	17.9	118	4.56	
	2.3 3.4	1.0 1.9	2.2 4.4	600 450	17.1 16.9	13.3 12.0	0.78 0.71	1.40 1.26	21.9 21.2	12.2 13.5	600 450	23.7 24.3	1.33 1.50	19.1 19.0	107 120	5.20 4.74	
85	3.4	1.9	4.4	600	17.6	13.5	0.77	1.31	22.1	13.5	600	24.9	1.35	20.3	108	5.41	
	4.5 4.5	3.5 3.5	8.1 8.1	450 600	17.3 18.0	12.2 13.8	0.70 0.76	1.22 1.27	21.5 22.4	14.3 14.3	450 600	25.0 25.6	1.51 1.36	19.6 20.9	121 110	4.84 5.51	
	2.3	0.9	2.1	450	15.8	11.5	0.73	1.42	20.6	11.1	450	24.1	1.50	18.8	120	4.71	
	2.3 3.4	0.9 1.8	2.1 4.2	600 450	16.4 16.3	13.0 11.7	0.79 0.71	1.48 1.33	21.5 20.8	11.1 12.3	600 450	24.7	1.35 1.52	20.1 20.0	108 122	5.37 4.89	
90	3.4	1.8	4.2	600	17.0	13.2	0.71	1.38	21.7	12.3	600	25.4 26.0	1.37	21.3	110	5.58	
	4.5 4.5	3.4 3.4	7.9 7.9	450 600	16.7 17.4	11.9 13.4	0.71 0.77	1.28 1.34	21.1 22.0	13.0 13.0	450 600	26.1 26.7	1.53 1.38	20.6 22.0	124 111	4.99 5.69	
	2.3	0.9	2.0	450	14.4	10.8	0.77	1.57	19.8	9.2	600	20.7	1.30	22.0		5.69	
	2.3	0.9 1.7	2.0 4.0	600 450	15.0 15.0	12.2	0.82 0.74	1.63 1.48	20.6 20.0	9.2 10.1							
100	3.4 3.4	1.7	4.0	600	15.6	11.0 12.5	0.74	1.54	20.0	10.1							
	4.5	3.2	7.4	450	15.4	11.2	0.73	1.43	20.3	10.8							
	4.5 2.3	3.2 0.8	7.4 1.8	600 450	16.0 12.9	12.7 10.1	0.79 0.78	1.49 1.74	21.1 18.8	10.8 7.4							
	2.3	8.0	1.8	600	13.4	11.4	0.85	1.81	19.6	7.4							
110	3.4 3.4	1.6 1.6	3.8 3.8	450 600	13.5 14.0	10.3 11.6	0.76 0.83	1.64 1.71	19.1 19.9	8.2 8.2		Operation not recommended					
	4.5	3.1	7.1	450	13.9	10.5	0.75	1.59	19.4	8.8							
	2.3	3.1 0.7	7.1 1.7	600 450	14.5 11.2	11.9 9.2	0.82	1.65 1.92	20.2 17.8	8.8 5.8							
	2.3	0.7	1.7	600	11.6	10.4	0.89	2.00	18.5	5.8							
120	3.4	1.6 1.6	3.6 3.6	450 600	11.8 12.3	9.5 10.7	0.80 0.87	1.82 1.89	18.1 18.8	6.5 6.5							
	4.5	2.9	6.8	450	12.3	9.7	0.79	1.77	18.4	7.0							
	4.5	2.9	6.8	600	12.8	11.0	0.86	1.84	19.1	7.0							

Interpolation is permissible; extrapolation is not.

All entering air conditions are 80°F DB and 67°F WB in cooling, and 70°F DB in heating.

AHRI/SO certified conditions are 80.6°F DB and 66.2°F WB in cooling and 68°F DB in heating.

Table does not reflect fan or pump power corrections for AHRI/ISO conditions.

All performance is based upon the lower voltage of dual voltage rated units.

Performance stated is at the rated power supply; performance may vary as the power supply varies from the rated.

Operation below 40°F EWT is based upon a 15% methanol antifreeze solution.

Operation below 60°F EWT requires optional insulated water/refrigerant circuit.

See performance correction tables for operating conditions other than those listed above.

See Performance Data Selection Notes for operation in the shaded areas.

Performance Data - TC H/V 018 (ECM Blower)

600 CFM Nominal (Rated) Airflow

Performance capacities shown in thousands of Btuh

EWT		WI	PD	Cooling - EAT 80/67°F								He	ating -	EAT 7	0°F			
°F	GPM	PSI	FT	Airflow CFM	тс	sc	Sens/Tot Ratio	kW	HR	EER	Airflow CFM	нс	kW	HE	LAT	СОР		
20	4.5 4.5	7.2 7.2	16.7 16.7		С	peration	not recor	mmende	ed		450 600	11.3 11.2	1.20 1.10	7.2 7.6	92.0 87.0	2.8 3.1		
	2.3	2.1	4.9	450	22.1	14.2	0.64	0.66	24.3	33.5	450	12.4	1.20	8.2	95.0	3.0		
	2.3	2.1	4.9	600	23.0	16.1	0.70	0.69	25.4	33.4	600	12.5	1.10	8.8	89.0	3.3		
30	3.4 3.4	3.4 3.4	7.9 7.9	450 600	22.9 23.9	14.4 16.3	0.63 0.68	0.58 0.61	24.9 26.0	39.6 39.2	450 600	12.9 13.1	1.20 1.10	8.7 9.3	96.0 90.0	3.1 3.5		
	4.5	5.9	13.7	450	23.3	14.4	0.62	0.54	25.1	43.2	450	13.3	1.20	9.0	97.0	3.1		
	4.5	5.9	13.7	600	24.3	16.3	0.67	0.56	26.2	43.5	600	13.4	1.10	9.6	90.0	3.5		
	2.3 2.3	1.7 1.7	3.9 3.9	450 600	21.1 22.0	13.9 15.7	0.66 0.71	0.76 0.80	23.7 24.7	27.8 27.5	450 600	14.2 14.5	1.30 1.10	9.9 10.6	99.0 92.0	3.3 3.7		
40	3.4	2.9	6.7	450	21.9	14.2	0.65	0.69	24.7	31.8	450	14.9	1.10	10.5	100.0	3.4		
40	3.4	2.9	6.7	600	22.8	16.0	0.70	0.72	25.3	31.7	600	15.1	1.10	11.2	93.0	3.9		
	4.5	5.1	11.8	450	22.5	14.5	0.64	0.65	24.7	34.7	450	15.2	1.30	10.8	101.0	3.5		
	4.5 2.3	5.1 1.4	11.8 3.3	600 450	23.5	16.4 13.7	0.70	0.68	25.8 23.4	34.6 23.5	600 450	15.6 16.2	1.20	11.6 11.7	94.0	3.9		
	2.3	1.4	3.3	600	21.2	15.5	0.73	0.91	24.3	23.3	600	16.5	1.20	12.5	95.0	4.1		
50	3.4	2.6	5.9	450	20.8	13.8	0.66	0.79	23.5	26.4	450	16.9	1.30	12.4	104.0	3.7		
	3.4 4.5	2.6	5.9	600	21.7	15.6	0.72	0.83	24.5	26.2	600	17.3 1.20 13.2 96.0 4. 17.2 1.30 12.7 105.0 3.						
	4.5	4.6 4.6	10.6 10.6	450 600	21.2 22.1	13.9 15.8	0.66 0.71	0.75 0.79	23.8 24.8	28.3 28.0	450 600	17.2	1.20	13.6	97.0	3.6 4.4		
	2.3	1.3	2.9	450	19.3	13.2	0.68	0.98	22.6	19.7	450	18.0	1.30	13.4	106.0	3.9		
	2.3	1.3	2.9	600	20.1	14.9	0.74	1.02	23.6	19.7	600	18.4	1.20	14.3	98.0	4.5		
60	3.4 3.4	2.3 2.3	5.3 5.3	450 600	19.8 20.6	13.4 15.1	0.68 0.73	0.90 0.94	22.9 23.8	22.0 21.9	450 600	18.8 19.4	1.40 1.20	14.2 15.2	108.0 99.0	4.1 4.7		
	4.5	4.2	9.6	450	20.6	13.1	0.73	0.86	23.0	23.4	450	19.4	1.40	14.7	109.0	4.7		
	4.5	4.2	9.6	600	21.0	15.3	0.73	0.90	24.1	23.4	600	19.9	1.20	15.7	100.0	4.7		
	2.3	1.1	2.6	450	18.2	12.7	0.70	1.09	21.9	16.7	450	19.9	1.40	15.2	110.0	4.2		
	2.3 3.4	1.1 2.1	2.6 4.9	600 450	19.0 18.7	14.3 12.8	0.75 0.68	1.14	22.9 22.1	16.7	600 450	20.4 20.9	1.20	16.2	101.0 112.0	4.9		
70	3.4	2.1	4.9	600	19.4	14.5	0.66	1.01 1.06	23.0	18.5 18.3	600	20.9	1.40 1.20	16.1 17.2	102.0	4.4 5.0		
	4.5	3.9	8.9	450	19.1	13.0	0.68	0.97	22.4	19.7	450	21.4	1.40	16.6	113.0	4.5		
	4.5	3.9	8.9	600	19.8	14.7	0.74	1.02	23.3	19.4	600	22.1	1.30	17.8	103.0	5.1		
	2.3 2.3	1.0	2.3	450	17.0	12.1	0.71 0.77	1.22	21.2	13.9	450	21.8	1.40	17.0	114.0	4.5		
	3.4	1.0 2.0	2.3 4.5	600 450	17.7 17.5	13.7 12.3	0.77	1.27 1.14	22.0 21.4	13.9 15.4	600 450	22.5 22.9	1.30 1.40	18.2 18.0	104.0 116.0	5.2 4.7		
80	3.4	2.0	4.5	600	18.3	13.9	0.76	1.19	22.4	15.4	600	23.7	1.30	19.3	105.0	5.4		
	4.5	3.6	8.3	450	17.9	12.5	0.70	1.09	21.6	16.4	450	23.5	1.40	18.6	117.0	4.8		
	4.5 2.3	3.6 1.0	8.3 2.2	600 450	18.7 16.4	14.1	0.75 0.72	1.14	22.6	16.4 12.7	600 450	24.3	1.30	19.9 17.9	106.0 116.0	5.5 4.7		
	2.3	1.0	2.2	600	17.1	13.3	0.72	1.29	21.7	12.7	600	23.4	1.40	17.9	105.0	4.7 5.4		
0.5	3.4	1.9	4.4	450	16.9	12.0	0.71	1.20	21.0	14.1	450	23.9	1.40	19.0	118.0	4.9		
85	3.4	1.9	4.4	600	17.6	13.5	0.77	1.25	21.9	14.1	600	24.7	1.30	20.3	107.0	5.6		
	4.5 4.5	3.5	8.1	450	17.3	12.2	0.71	1.16	21.3	14.9 14.9	450 600	24.5	1.40	19.6 20.9	119.0	5.0 5.7		
	2.3	3.5 0.9	8.1 2.1	600 450	18.0 15.8	13.8 11.5	0.77	1.21	22.1	11.6	450	25.3	1.30	18.8	108.0 117.0	4.8		
	2.3	0.9	2.1	600	16.4	13.0	0.79	1.42	21.2	11.6	600	24.5	1.30	20.1	107.0	5.6		
90	3.4	1.8	4.2	450	16.3	11.7	0.72	1.27	20.6	12.8	450	25.0	1.50	20.0	120.0	5.0		
	3.4	1.8	4.2 7.9	600	17.0 16.7	13.2 11.9	0.78	1.32 1.22	21.5	12.9	600	25.8	1.30	21.3	108.0	5.8		
	4.5 4.5	3.4 3.4	7.9 7.9	450 600	17.4	13.4	0.71 0.77	1.22	20.9 21.8	13.7 13.6	450 600	25.6 26.5	1.50 1.30	20.6 22.0	121.0 109.0	5.1 5.9		
	2.3	0.9	2.0	450	14.4	10.8	0.75	1.51	19.5	9.5								
	2.3	0.9	2.0	600	15.0	12.2	0.81	1.57	20.4	9.6								
100	3.4 3.4	1.7 1.7	4.0 4.0	450 600	15.0 15.6	11.0 12.5	0.73 0.80	1.42 1.48	19.8 20.6	10.6 10.5								
	4.5	3.2	7.4	450	15.4	11.2	0.80	1.46	20.6	11.2								
	4.5	3.2	7.4	600	16.0	12.7	0.79	1.43	20.9	11.2								
	2.3	0.8	1.8	450	12.9	10.1	0.78	1.68	18.6	7.7								
	2.3 3.4	0.8 1.6	1.8 3.8	600 450	13.4 13.5	11.4 10.3	0.85 0.76	1.75 1.58	19.4 18.9	7.7 8.5								
110	3.4	1.6	3.8	600	14.0	11.6	0.76	1.65	19.6	8.5								
	4.5	3.1	7.1	450	13.9	10.5	0.76	1.53	19.1	9.1	1							
	4.5	3.1	7.1	600	14.5	11.9	0.82	1.59	19.9	9.1	1							
	2.3 2.3	0.7 0.7	1.7 1.7	450 600	11.2 11.6	9.2 10.4	0.82 0.90	1.86 1.94	17.5 18.2	6.0 6.0								
400	3.4	1.6	3.6	450	11.8	9.5	0.90	1.94	17.8	6.7								
120	3.4	1.6	3.6	600	12.3	10.7	0.87	1.83	18.5	6.7								
	4.5	2.9	6.8	450	12.3	9.7	0.79	1.71	18.1	.1 7.2								
	4.5	2.9	6.8	600	12.8	11.0	0.86	1.78	18.9	7.2								

Interpolation is permissible; extrapolation is not.

All entering air conditions are 80°F DB and 67°F WB in cooling, and 70°F DB in heating.

AHRI/ISO certified conditions are 80.6°F DB and 66.2°F WB in cooling and 68°F DB in heating.

Table does not reflect fan or pump power corrections for AHRI/ISO conditions.

All performance is based upon the lower voltage of dual voltage rated units.

Performance stated is at the rated power supply; performance may vary as the power supply varies from the rated.

Operation below 40°F EWT is based upon a 15% methanol antifreeze solution.

Operation below 60°F EWT requires optional insulated water/refrigerant circuit.

See performance correction tables for operating conditions other than those listed above.

See Performance Data Selection Notes for operating north than those listed above.

Performance Data - TC H/V 024 (PSC Blower)

850 CFM Nominal (Rated) Airflow

Performance capacities shown in thousands of Btuh

EWT		W	PD		(Cooling	g - EAT	80/67 °l	F					EAT 7		us of Bluff
°F	GPM	PSI	FT	Airflow CFM	TC	sc	Sens/Tot Ratio	kW	HR	EER	Airflow CFM	НС	kW	HE	LAT	СОР
20	6.0 6.0	8.5 8.5	19.6 19.6		0	peration	not reco	mmend	ed		640 850	15.5 15.9	1.91 1.71	9.5 10.1	92 87	2.39 2.72
	3.0	2.2	5.2	640	27.7	17.4	0.63	1.12	31.5	24.8	640	17.2	1.93	11.0	95	2.61
	3.0 4.5	2.2 4.0	5.2 9.3	850 640	28.9 28.2	19.7 17.5	0.68 0.62	1.16 1.05	32.8 31.8	24.8 26.9	850 640	17.6 18.0	1.74 1.95	11.8 11.7	89 96	2.98 2.70
30	4.5	4.0	9.3	850	29.4	19.8	0.67	1.09	33.1	26.9	850	18.4	1.75	12.5	90	3.08
	6.0 6.0	7.2 7.2	16.7 16.7	640 850	28.5	17.5	0.62	1.02	31.9 33.2	28.0 28.0	640 850	18.4	1.95	12.1 12.9	97 91	2.76 3.14
	3.0	1.9	4.4	640	29.6 26.9	19.8 17.1	0.67 0.64	1.06 1.23	31.1	21.9	640	18.8 19.9	1.76 1.98	13.4	99	2.94
	3.0	1.9	4.4	850	28.0	19.4	0.69	1.28	32.4	21.9	850	20.4	1.78	14.4	92	3.36
40	4.5 4.5	3.6 3.6	8.2 8.2	640 850	27.5 28.7	17.3 19.6	0.63 0.68	1.15 1.19	31.4 32.7	24.0 24.0	640 850	20.8 21.3	2.00 1.79	14.3 15.3	100 93	3.06 3.49
	6.0	6.4	14.9	640	27.8	17.4	0.63	1.11	31.5	25.1	640	21.3	2.01	14.7	101	3.12
	6.0	6.4	14.9	850	28.9	19.7	0.68	1.16	32.8	25.1	850	21.9	1.80	15.7	94	3.55
	3.0 3.0	1.7 1.7	3.9 3.9	640 850	26.2 27.3	16.9 19.1	0.65 0.70	1.36 1.42	30.8 32.1	19.3 19.3	640 850	22.6 23.2	2.03 1.82	15.9 17.0	103 95	3.27 3.72
50	4.5	3.2	7.4	640	26.7	17.0	0.64	1.26	31.0	21.1	640	23.7	2.05	16.9	104	3.39
	4.5 6.0	3.2 5.9	7.4 13.6	850 640	27.8 27.0	19.3 17.1	0.69 0.64	1.32 1.22	32.2 31.1	21.1 22.1	850 640	24.3 24.3	1.84 2.06	18.0 17.4	96 105	3.87 3.46
	6.0	5.9	13.6	850	28.1	19.4	0.69	1.27	32.4	22.1	850	24.9	1.85	18.6	97	3.94
	3.0	1.5	3.5	640	25.3	16.6	0.66	1.52	30.4	16.7	640	25.3	2.08	18.3	107	3.57
60	3.0 4.5	1.5 3.0	3.5 6.9	850 640	26.3 25.7	18.8 16.7	0.71 0.65	1.58 1.40	31.7 30.5	16.7 18.3	850 640	25.9 26.6	1.87 2.10	19.6 19.4	98 108	4.07 3.70
60	4.5	3.0	6.9	850	26.8	18.9	0.70	1.46	31.7	18.3	850	27.2	1.89	20.7	100	4.22
	6.0 6.0	5.5 5.5	12.6 12.6	640 850	26.1 27.1	16.8 19.0	0.64 0.70	1.35 1.41	30.6 31.9	19.3 19.3	640 850	27.2 27.9	2.12 1.90	20.0 21.4	109 100	3.77 4.30
	3.0	1.4	3.2	640	24.1	16.2	0.67	1.70	29.9	14.2	640	27.9	2.13	20.7	110	3.84
	3.0	1.4	3.2	850	25.1	18.3	0.73	1.77	31.1	14.2	850	28.6	1.91	22.1	101	4.38
70	4.5 4.5	2.8 2.8	6.4 6.4	640 850	24.6 25.6	16.3 18.4	0.66 0.72	1.57 1.63	30.0 31.2	15.7 15.7	640 850	29.2 29.9	2.16 1.94	21.8 23.3	112 103	3.97 4.53
	6.0	5.2	11.9	640	25.0	16.4	0.66	1.51	30.1	16.6	640	29.9	2.17	22.5	113	4.04
	6.0 3.0	5.2 1.3	11.9 3.0	850 640	26.0 22.9	18.6 15.7	0.71 0.69	1.57 1.91	31.4 29.4	16.6 12.0	850 640	30.6 30.4	1.95 2.18	24.0 22.9	103 114	4.60 4.08
	3.0	1.3	3.0	850	23.8	17.8	0.75	1.99	30.6	12.0	850	31.1	1.96	24.4	104	4.65
80	4.5 4.5	2.6 2.6	6.1 6.1	640 850	23.4	15.8 17.9	0.67 0.73	1.76	29.4	13.3	640 850	31.7	2.21 1.99	24.0 25.7	116	4.20 4.79
	6.0	4.9	11.3	640	24.4 23.8	16.0	0.73	1.84 1.70	30.7 29.6	13.3 14.1	640	32.5 32.4	2.23	24.6	105 117	4.79
	6.0	4.9	11.3	850	24.8	18.1	0.73	1.77	30.8	14.1	850	33.1	2.00	26.3	106	4.85
	3.0 3.0	1.3 1.3	2.9 2.9	640 850	22.2 23.1	15.5 17.5	0.70 0.76	2.03 2.12	29.2 30.4	11.0 11.0	640 850	31.5 32.3	2.21 1.98	23.8 25.5	116 105	4.18 4.77
85	4.5	2.6	5.9	640	22.8	15.6	0.68	1.88	29.2	12.2	640	32.7	2.24	25.0	117	4.29
	4.5 6.0	2.6 4.8	5.9 11.0	850 640	23.7 23.2	17.6 15.7	0.74 0.68	1.95 1.80	30.4 29.3	12.2 12.9	850 640	33.5 33.4	2.01 2.25	26.7 25.5	107 118	4.89 4.34
	6.0	4.8	11.0	850	23.2 24.1	17.8	0.00	1.88	30.5	12.9	850	34.2	2.23	27.2	107	4.95
	3.0	1.2	2.8	640	21.6	15.3	0.71	2.16	28.9	10.0	640	32.6	2.23	24.8	117	4.28
90	3.0 4.5	1.2 2.5	2.8 5.8	850 640	22.4 22.2	17.3 15.4	0.77 0.69	2.25 1.99	30.1 29.0	10.0 11.1	850 640	33.4 33.8	2.01 2.26	26.5 25.9	106 119	4.88 4.38
30	4.5	2.5	5.8	850	23.1	17.4	0.75	2.07	30.1	11.1	850	34.6	2.03	27.6	108	4.99
	6.0 6.0	4.7 4.7	10.7 10.7	640 850	22.5 23.4	15.4 17.5	0.69 	1.91 1.99	29.0 30.2	11.8 11.8	640 850	34.4 35.2	2.28	26.4 28.2	120 108	4.42 5.04
	3.0	1.2	2.7	640	20.2	14.8	0.74	2.44	28.5	8.3						
	3.0 4.5	1.2 2.4	2.7 5.5	850 640	21.0 20.8	16.8 14.9	0.80 0.72	2.54 2.25	29.7 28.5	8.3 9.2						
100	4.5	2.4	5.5	850	21.6	16.9	0.72	2.34	29.7	9.2						
	6.0	4.5	10.3	640	21.1	15.0	0.71	2.16	28.5	9.8	9.8					
	6.0 3.0	<u>4.5</u> 1.1	10.3 2.5	850 640	22.0 18.8	17.0 14.4	0.77 0.77	2.25 2.77	29.7 28.3	9.8 6.8						
	3.0	1.1	2.5	850	19.5	16.3	0.84	2.88	29.4	6.8						
110	4.5 4.5	2.3 2.3	5.3 5.3	640 850	19.3 20.1	14.4 16.3	0.75 0.81	2.55 2.66	28.1 29.2	7.6 7.6		Opera	ation not	recomm	nended	
	6.0	4.3	9.9	640	19.7	14.5	0.74	2.45	28.1	8.0						
	6.0 3.0	4.3 1.0	9.9 2.4	850 640	20.5 17.1	16.4 13.9	0.80	2.55 3.13	29.3 27.9							
	3.0	1.0	2.4	850	17.1	15.7	0.81	3.13	27.9	5.5 5.5						
120	4.5	2.2	5.1	640	17.8	14.0	0.78	2.89	27.8	6.2						
	4.5 6.0	2.2 4.2	5.1 9.6	850 640	18.6 18.3	15.8 14.1	0.85 0.77	3.01 2.78	28.9 27.9	6.2 6.6						
	6.0	4.2	9.6	850	19.1	16.0	0.84	2.89	29.0	6.6						

Interpolation is permissible; extrapolation is not.

All entering air conditions are 80°F DB and 67°F WB in cooling, and 70°F DB in heating.

AHRI/SO certified conditions are 80.6°F DB and 66.2°F WB in cooling and 68°F DB in heating.

Table does not reflect fan or pump power corrections for AHRI/ISO conditions.

All performance is based upon the lower voltage of dual voltage rated units.

Performance stated is at the rated power supply; performance may vary as the power supply varies from the rated.

Operation below 40°F EWT is based upon a 15% methanol antifreeze solution.

Operation below 60°F EWT requires optional insulated water/refrigerant circuit.

See performance correction tables for operating conditions other than those listed above.

See Performance Data Selection Notes for operation in the shaded areas.

Performance Data - TC H/V 024 (ECM Blower)

800 CFM Nominal (Rated) Airflow

Performance capacities shown in thousands of Btuh

EWT.	GPM -		PD									Heating - EAT 70°F							
	GPM	PSI	FT	Airflow CFM	тс	sc	Sens/Tot Ratio	kW	HR	EER	Airflow CFM	нс	kW	HE	LAT	СОР			
20	6.0 6.0	8.5 8.5	19.6 19.6		C	peration	not recor	nmende	ed		640 800	15.9 15.8	1.87 1.67	9.5 10.1	92.0 87.0	2.5 2.8			
	3.0	2.2	5.2	640	27.7	17.4	0.63	1.08	31.4	25.6	640	17.5	1.89	11.0	95.0	2.7			
	3.0	2.2	5.2	800	28.9	19.7	0.68	1.12	32.7	25.8	800	17.6	1.70	11.8	89.0	3.0			
30	4.5 4.5	4.0 4.0	9.3 9.3	640 800	28.2 29.4	17.5 19.8	0.62 0.67	1.01 1.05	31.7 33.0	27.9 28.0	640 800	18.2 18.3	1.91 1.71	11.7 12.5	96.0 90.0	2.8 3.1			
	6.0	7.2	16.7	640	28.5	17.5	0.61	0.98	31.8	29.0	640	18.6	1.91	12.1	97.0	2.9			
	6.0	7.2 1.9	16.7	800	29.6	19.8	0.67	1.02	33.1	29.0	800	18.8	1.72	12.9	90.0	3.2			
	3.0	1.9	4.4 4.4	640 800	26.9 28.0	17.1 19.4	0.64 0.69	1.19 1.24	31.0 32.2	22.6 22.6	640 800	20.0 20.3	1.74	13.4	99.0 92.0	3.0 3.4			
40	4.5	3.6	8.2	640	27.5	17.3	0.63	1.11	31.3	24.7	640	21.0	1.96	14.3	100.0	3.1			
40	4.5	3.6	8.2	800	28.7	19.6	0.68	1.15	32.6	24.9	800	21.3	1.75	15.3	93.0	3.6			
	6.0 6.0	6.4 6.4	14.9 14.9	640 800	27.8 28.9	17.4 19.7	0.63 0.68	1.07 1.12	31.5 32.7	25.9 25.8	640 800	21.4 21.7	1.97 1.76	14.7 15.7	101.0 94.0	3.2 3.6			
	3.0	1.7	3.9	640	26.2	16.9	0.65	1.32	30.7	19.8	640	22.7	1.99	15.9	103.0	3.3			
	3.0	1.7	3.9	800	27.3	19.1	0.70	1.38	32.0	19.8	800	23.1	1.78	17.0	95.0	3.8			
50	4.5 4.5	3.2 3.2	7.4 7.4	640 800	26.7 27.8	17.0 19.3	0.64 0.69	1.22 1.28	30.9 32.2	21.9 21.7	640 800	23.8 24.1	2.01 1.80	16.9 18.0	104.0 96.0	3.5 3.9			
	6.0	5.9	13.6	640	27.0	17.1	0.63	1.18	31.0	22.9	640	24.3	2.02	17.4	105.0	3.5			
	6.0	5.9	13.6	800	28.1	19.4	0.69	1.23	32.3	22.8	800	24.8	1.81	18.6	97.0	4.0			
	3.0	1.5 1.5	3.5 3.5	640 800	25.3 26.3	16.6 18.8	0.66 0.71	1.48 1.54	30.4 31.6	17.1 17.1	640 800	25.3 25.8	2.04 1.83	18.3 19.6	106.0 98.0	3.6 4.1			
	4.5	3.0	6.9	640	25.7	16.7	0.65	1.36	30.3	18.9	640	26.4	2.06	19.4	108.0	3.8			
60	4.5	3.0	6.9	800	26.8	18.9	0.71	1.42	31.6	18.9	800	27.0	1.85	20.7	99.0	4.3			
	6.0 6.0	5.5 5.5	12.6 12.6	640 800	26.1 27.1	16.8 19.0	0.64 0.70	1.31 1.37	30.6 31.8	19.9 19.8	640 800	27.1 27.8	2.08 1.86	20.0 21.4	109.0 100.0	3.8 4.4			
	3.0	1.4	3.2	640	24.1	16.2	0.67	1.66	29.8	14.5	640	27.8	2.09	20.7	110.0	3.9			
l	3.0	1.4	3.2	800	25.1	18.3	0.73	1.73	31.0	14.5	800	28.5	1.87	22.1	101.0	4.5			
70	4.5	2.8	6.4	640	24.6	16.3	0.66	1.53	29.8	16.1	640	29.0	2.12	21.8	112.0	4.0			
	4.5 6.0	2.8 5.2	6.4 11.9	800 640	25.6 25.0	18.4 16.4	0.72 0.66	1.59 1.47	31.0 30.0	16.1 17.0	800 640	29.8 29.8	1.90 2.13	23.3 22.5	102.0 113.0	4.6 4.1			
	6.0	5.2	11.9	800	26.0	18.6	0.72	1.53	31.2	17.0	800	30.5	1.91	24.0	103.0	4.7			
	3.0	1.3	3.0	640	22.9	15.7	0.69	1.87	29.3	12.2	640	30.2	2.14	22.9	114.0	4.1			
	3.0 4.5	1.3 2.6	3.0 6.1	800 640	23.8 23.4	17.8 15.8	0.75 0.68	1.95 1.72	30.5 29.3	12.2 13.6	800 640	31.0 31.4	1.92 2.17	24.4 24.0	104.0 116.0	4.7 4.2			
80	4.5	2.6	6.1	800	24.4	17.9	0.73	1.80	30.5	13.5	800	32.4	1.95	25.7	105.0	4.9			
	6.0	4.9	11.3	640	23.8	16.0	0.67	1.66	29.5	14.3	640	32.1	2.19	24.6	117.0	4.3			
	6.0 3.0	4.9 1.3	11.3 2.9	800 640	24.8	18.1 15.5	0.73	1.73	30.7 29.0	14.3 11.1	800 640	33.0 31.2	1.96 2.17	26.3	106.0 116.0	4.9			
	3.0	1.3	2.9	800	23.1	17.5	0.76	2.08	30.2	11.1	800	32.1	1.94	25.5	105.0	4.8			
85	4.5	2.6	5.9	640	22.8	15.6	0.68	1.84	29.1	12.4	640	32.5	2.20	25.0	118.0	4.3			
	4.5 6.0	2.6 4.8	5.9 11.0	800 640	23.7 23.2	17.6 15.7	0.74 0.68	1.91 1.76	30.2 29.2	12.4 13.2	800 640	33.4 33.0	1.97 2.21	26.7 25.5	107.0 119.0	5.0 4.4			
	6.0	4.8	11.0	800	24.1	17.8	0.74	1.84	30.4	13.1	800	34.0	1.98	27.2	108.0	5.0			
	3.0	1.2	2.8	640	21.6	15.3	0.71	2.12	28.8	10.2	640	32.3	2.19	24.8	117.0	4.3			
	3.0 4.5	1.2 2.5	2.8 5.8	800 640	22.4 22.2	17.3 15.4	0.77 0.69	2.21 1.95	29.9 28.9	10.1 11.4	800 640	33.2 33.5	1.97 2.22	26.5 25.9	107.0 120.0	4.9 4.4			
90	4.5	2.5	5.8	800	23.1	17.4	0.75	2.03	30.0	11.4	800	34.4	1.99	27.6	108.0	5.1			
	6.0	4.7	10.7	640	22.5	15.4	0.68	1.87	28.9	12.0	640	34.0	2.24	26.4	121.0	4.5			
	6.0 3.0	4.7 1.2	10.7 2.7	800 640	23.4	17.5 14.8	0.75	1.95 2.40	30.1 28.4	12.0 8.4	800	35.1	2.01	28.2	109.0	5.1			
	3.0	1.2	2.7	800	21.0	16.8	0.80	2.50	29.5	8.4									
100	4.5	2.4	5.5	640	20.8	14.9	0.72	2.21	28.3	9.4									
100	4.5 6.0	2.4 4.5	5.5 10.3	800 640	21.6 21.1	16.9 15.0	0.78 0.71	2.30 2.12	29.5 28.3	9.4 9.9									
	6.0	4.5	10.3	800	22.0	17.0	0.71	2.12	29.5	9.9									
	3.0	1.1	2.5	640	18.8	14.4	0.77	2.73	28.1	6.9									
	3.0	1.1	2.5	800	19.5	16.3	0.84	2.84	29.2	6.9									
110	4.5 4.5	2.3 2.3	5.3 5.3	640 800	19.3 20.1	14.4 16.3	0.75 0.81	2.51 2.62	27.9 29.0	7.7 7.7		Opera	tion not	recomm	nended				
	6.0	4.3	9.9	640	19.7	14.5	0.74	2.41	27.9	8.2									
	6.0	4.3	9.9	800	20.5	16.4	0.80	2.51	29.1	8.2									
	3.0 3.0	1.0 1.0	2.4 2.4	640 800	17.1 17.8	13.9 15.7	0.81 0.88	3.09 3.22	27.6 28.8	5.5 5.5									
120	4.5	2.2	5.1	640	17.8	14.0	0.79	2.85	27.5	6.2									
120	4.5	2.2	5.1	800	18.6	15.8	0.85	2.97	28.7	6.3									
	6.0 6.0	4.2 4.2	9.6 9.6	640 800	18.3 19.1	14.1 16.0	0.77 0.84	2.74 2.85	27.7 28.8	6.7 6.7									

Interpolation is permissible; extrapolation is not.

All entering air conditions are 80°F DB and 67°F WB in cooling, and 70°F DB in heating.

AHRI/ISO certified conditions are 80.6°F DB and 66.2°F WB in cooling and 68°F DB in heating.

Table does not reflect fan or pump power corrections for AHRI/ISO conditions.

All performance is based upon the lower voltage of dual voltage rated units.

Performance stated is at the rated power supply; performance may vary as the power supply varies from the rated.

Operation below 40°F EWT is based upon a 15% methanol antifreeze solution.

Operation below 60°F EWT requires optional insulated water/refrigerant circuit.

See performance correction tables for operating conditions other than those listed above.

See Performance Data Selection Notes for operating north than those listed above.

Performance Data - TC H/V 030 (PSC Blower)

1,000 CFM Nominal (Rated) Airflow

Performance capacities shown in thousands of Btuh

EWT		W	PD			Cooling	g - EAT	80/67°	F		Heating - EAT 70°F								
°F	GPM	PSI	FT	Airflow CFM	тс	sc	Sens/Tot Ratio	kW	HR	EER	Airflow CFM	нс	kW	HE	LAT	СОР			
20	7.5 7.5	5.0 5.0	11.6 11.6		0	peration	not reco	mmend	ed		750 1000	20.0 20.4	2.31 2.08	12.6 13.4	95 89	2.53 2.89			
	3.8	1.3	2.9	750	33.3	20.3	0.61	1.38	38.0	24.0	750	21.6	2.37	14.0	97	2.67			
	3.8 5.6	1.3 2.3	2.9 5.4	1000 750	34.7 33.5	22.9 20.2	0.66 0.60	1.44 1.31	39.5 37.9	24.0 25.7	1000 750	22.1 22.5	2.13 2.40	14.9 14.7	90 98	3.04 2.75			
30	5.6	2.3	5.4	1000	34.9	22.8	0.65	1.36	39.5	25.7	1000	23.0	2.15	15.7	91	3.13			
	7.5 7.5	4.2 4.2	9.7 9.7	750 1000	33.6 35.0	20.0 22.7	0.60 0.65	1.27 1.32	37.9 39.4	26.5 26.5	750 1000	22.9 23.5	2.41 2.16	15.1 16.2	98 92	2.79 3.18			
	3.8	1.0	2.4	750	32.6	20.2	0.62	1.51	37.7	21.6	750	24.7	2.45	16.7	100	2.95			
	3.8 5.6	1.0 2.0	2.4 4.7	1000 750	34.0 33.1	22.8 20.3	0.67 0.61	1.57 1.42	39.3 37.9	21.6 23.3	1000 750	25.3 25.7	2.20 2.48	17.8 17.6	93 102	3.36 3.04			
40	5.6	2.0	4.7	1000	34.5	22.9	0.67	1.48	39.5	23.3	1000	26.4	2.23	18.8	94	3.47			
	7.5	3.7	8.6	750	33.7	20.5	0.61	1.38	38.3	24.4	750	26.3	2.49	18.1	102	3.10			
	7.5	0.9	8.6 2.1	1000 750	35.1 31.6	23.2 19.9	0.66	1.44	39.9 37.2	24.4 19.2	1000 750	26.9 27.8	2.24	19.4 19.5	95 104	3.53			
	3.8	0.9	2.1	1000	32.9	22.5	0.68	1.72	38.8	19.2	1000	28.5	2.26	20.8	96	3.69			
50	5.6 5.6	1.8 1.8	4.2 4.2	750 1000	32.3 33.7	20.1 22.8	0.62 0.68	1.55 1.61	37.6 39.1	20.9 20.9	750 1000	29.1 29.8	2.55 2.29	20.6 22.0	106 98	3.35 3.82			
	7.5	3.4	7.8	750	32.6	20.2	0.62	1.50	37.7	21.7	750	29.8	2.56	21.3	107	3.41			
	7.5	3.4 0.8	7.8	1000 750	34.0 30.4	22.9 19.4	0.67 0.64	1.57	39.3 36.6	21.7 16.8	1000 750	30.5 31.0	2.30	22.7 22.4	98 108	3.89			
	3.8	0.8	1.8 1.8	1000	31.7	21.9	0.69	1.89	38.1	16.8	1000	31.8	2.32	23.9	99	3.52 4.02			
60	5.6	1.7	3.8	750	31.1	19.6	0.63	1.70	36.9	18.3	750	32.5	2.61	23.7	110	3.65			
	5.6 7.5	1.7 3.1	3.8 7.2	1000 750	32.4 31.4	22.2 19.7	0.69 0.63	1.77 1.65	38.4 37.0	18.3 19.0	1000 750	33.3 33.3	2.34 2.63	25.3 24.4	101 111	4.16 3.71			
	7.5	3.1	7.2	1000	32.7	22.3	0.68	1.71	38.5	19.1	1000	34.1	2.36	26.0	102	4.24			
	3.8 3.8	0.7 0.7	1.6 1.6	750 1000	29.0 30.2	18.8 21.2	0.65 0.70	2.00 2.08	35.8 37.3	14.5 14.5	750 1000	34.2 35.1	2.64 2.37	25.2 26.9	112 102	3.79 4.33			
70	5.6	1.5	3.6	750	30.0	19.2	0.64	1.87	36.3	16.0	750	35.8	2.68	26.7	114	3.92			
70	5.6	1.5 2.9	3.6	1000	31.2	21.7	0.70	1.95	37.8	16.0	1000	36.7 36.7	2.40	28.5	104	4.47			
	7.5 7.5	2.9	6.7 6.7	750 1000	30.4 31.7	19.4 21.9	0.64 0.69	1.81 1.89	36.6 38.1	16.8 16.8	750 1000	36.7 37.6	2.70 2.42	27.4 29.3	115 105	3.99 4.55			
	3.8	0.7	1.5	750	27.7	18.3	0.66	2.21	35.3	12.5	750	37.3	2.71	28.0	116	4.04			
	3.8 5.6	0.7 1.4	1.5 3.3	1000 750	28.8 28.5	20.7 18.5	0.72 0.65	2.30 2.07	36.7 35.5	12.5 13.7	1000 750	38.2 39.0	2.43 2.75	29.9 29.5	105 118	4.60 4.15			
80	5.6	1.4	3.3	1000	29.6	21.0	0.71	2.16	37.0	13.7	1000	40.0	2.47	31.5	107	4.74			
	7.5 7.5	2.7 2.7	6.3 6.3	750 1000	29.0 30.2	18.7 21.2	0.65 0.70	2.00 2.08	35.8 37.3	14.5 14.5	750 1000	40.2 41.2	2.78 2.50	30.6 32.6	120 108	4.24 4.84			
	3.8	0.6	1.4	750	26.7	17.8	0.67	2.34	34.7	11.5	750	38.8	2.75	29.3	118	4.14			
	3.8 5.6	0.6 1.4	1.4 3.2	1000 750	27.8 27.6	20.1 18.2	0.72 0.66	2.43 2.18	36.1 35.1	11.5 12.7	1000 750	39.8 40.5	2.5 2.8	31.3 30.8	107 120	4.72 4.24			
85	5.6	1.4	3.2	1000	28.8	20.6	0.71	2.16	36.5	12.7	1000	41.5	2.5	32.9	108	4.84			
	7.5	2.7	6.2	750	28.2	18.4	0.65	2.11	35.4	13.4	750	41.6	2.8	31.7	121	4.30			
	7.5	0.6	6.2 1.4	1000 750	29.3 25.7	20.8 17.3	0.71	2.20	36.8 34.1	13.4 10.5	1000 750	42.6 40.3	2.5	33.9 30.6	109 120	4.91 4.23			
	3.8	0.6	1.4	1000	26.8	19.6	0.73	2.56	35.5	10.5	1000	41.3	2.51	32.7	108	4.83			
90	5.6 5.6	1.4 1.4	3.1 3.1	750 1000	26.8 27.9	17.8 20.1	0.66 0.72	2.30 2.39	34.7 36.1	11.7 11.7	750 1000	42.0 43.0	2.85 2.56	32.1 34.3	122 110	4.33 4.93			
	7.5	2.6	6.0	750	27.3	18.0	0.66	2.22	34.9	12.3	750	42.9	2.88	32.9	123	4.36			
	7.5	2.6 0.6	1.3	1000 750	28.5 24.0	20.4 16.6	0.72	2.31	36.4 33.3	12.3 8.7	1000	44.0	2.59	35.1	111	4.98			
	3.8	0.6	1.3	1000	24.9	18.8	0.75	2.85	34.7	8.7									
100	5.6 5.6	1.3 1.3	3.0 3.0	750 1000	25.1 26.1	17.0 19.3	0.68 0.74	2.56 2.67	33.8 35.2	9.8									
	7.5	2.5	5.7	750	25.6	17.3	0.74	2.48	35.2 34.1	9.8 10.3									
	7.5	2.5	5.7	1000	26.7	19.6	0.73	2.58	35.5	10.3									
	3.8	0.5 0.5	1.2 1.2	750 1000	22.5 23.5	16.1 18.2	0.72 0.78	3.07 3.19	33.0 34.4	7.4 7.4									
110	5.6	1.2	2.8	750	23.2	16.3	0.70	2.86	33.1	8.1		Opers	ation not	recomm	ended				
110	5.6 7.5	1.2 2.4	2.8 5.5	1000 750	24.2 23.8	18.4 16.5	0.76 0.69	2.98 2.77	34.4 33.3	8.1 8.6		Opera		TCCOITIII	icrided				
	7.5	2.4	5.5	1000	24.8	18.7	0.75	2.88	34.6	8.6									
	3.8 3.8	0.5 0.5	1.1	750 1000	20.4 21.2	15.2 17.2	0.74 0.81	3.44 3.58	32.2 33.5	5.9 5.9									
400	5.6	1.2	1.1 2.7	750	21.4	15.6	0.73	3.21	33.5 32.4	6.7									
120	5.6	1.2	2.7	1000	22.3	17.6	0.79	3.34	33.8	6.7									
	7.5 7.5	2.3 2.3	5.3 5.3	750 1000	22.0 22.9	15.8 17.8	0.72 0.78	3.10 3.23	32.6 33.9	7.1 7.1									
			0.0				J U	5.25	00.0										

Interpolation is permissible; extrapolation is not.

All entering air conditions are 80°F DB and 67°F WB in cooling, and 70°F DB in heating.

AHRI/SO certified conditions are 80.0°F DB and 66.2°F WB in cooling and 68°F DB in heating.

Table does not reflect fan or pump power corrections for AHRI/ISO conditions.

All performance is based upon the lower voltage of dual voltage rated units.

Performance stated is at the rated power supply; performance may vary as the power supply varies from the rated.

Operation below 40°F EWT is based upon a 15% methanol antifreeze solution.

Operation below 60°F EWT requires optional insulated water/refrigerant circuit.

See performance correction tables for operating conditions other than those listed above.

See Performance Data Selection Notes for operation in the shaded areas.

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Performance Data - TC H/V 030 (ECM Blower)

1000 CFM Nominal (Rated) Airflow

Performance capacities shown in thousands of Btuh

EWT		W	PD			Cooling	g - EAT 8	80/67°F	:			He	ating -	EAT 7	0°F	
°F	GPM	PSI	FT	Airflow CFM	тс	sc	Sens/Tot Ratio	kW	HR	EER	Airflow CFM	нс	kW	HE	LAT	СОР
20	7.5 7.5	5.0 5.0	11.6 11.6		C	peration	not recor	mmende	ed		750 1000	20.3 20.3	2.25 2.02	12.6 13.4	92.0 87.0	2.6 2.9
	3.8	1.3	2.9	750	33.3	20.3	0.61	1.32	37.8	25.2	750	21.9	2.31	14.0	95.0	2.8
	3.8	1.3	2.9	1000	34.7	22.9	0.66	1.38	39.4	25.1	1000	22.0	2.07	14.9	89.0	3.1
30	5.6 5.6	2.3 2.3	5.4 5.4	750 1000	33.5 34.9	20.2 22.8	0.60 0.65	1.25 1.30	37.8 39.3	26.8 26.8	750 1000	22.7 22.8	2.34 2.09	14.7 15.7	96.0 90.0	2.8 3.2
	7.5	4.2	9.7	750	33.6	20.0	0.60	1.21	37.7	27.7	750	23.1	2.35	15.1	97.0	2.9
	7.5	4.2	9.7	1000	35.0	22.7	0.65	1.26	39.3	27.7	1000	23.4	2.10	16.2	90.0	3.3
	3.8 3.8	1.0 1.0	2.4 2.4	750	32.6	20.2 22.8	0.62 0.67	1.45	37.6	22.5 22.5	750 1000	24.9	2.39	16.7	99.0 92.0	3.0
	5.6	2.0	2.4 4.7	1000 750	34.0 33.1	20.3	0.67	1.51 1.36	39.2 37.7	24.3	750	25.1 25.9	2.14 2.42	17.8 17.6	100.0	3.4 3.1
40	5.6	2.0	4.7	1000	34.5	22.9	0.66	1.42	39.4	24.3	1000	26.2	2.17	18.8	93.0	3.5
	7.5	3.7	8.6	750	33.7	20.5	0.61	1.32	38.2	25.5	750	26.4	2.43	18.1	101.0	3.2
	7.5	0.9	8.6 2.1	1000 750	35.1 31.6	23.2 19.9	0.66	1.38	39.8 37.0	25.4 19.9	1000 750	26.8 27.9	2.18	19.4 19.5	94.0	3.6
	3.8	0.9	2.1	1000	32.9	22.5	0.68	1.66	38.6	19.8	1000	28.3	2.20	20.8	95.0	3.8
50	5.6	1.8	4.2	750	32.3	20.1	0.62	1.49	37.4	21.7	750	29.1	2.49	20.6	104.0	3.4
	5.6	1.8	4.2	1000	33.7	22.8	0.68	1.55	39.0	21.7	1000	29.6	2.23	22.0	96.0	3.9
	7.5 7.5	3.4 3.4	7.8 7.8	750 1000	32.6 34.0	20.2 22.9	0.62 0.67	1.44 1.51	37.5 39.2	22.6 22.5	750 1000	29.8 30.3	2.50 2.24	21.3 22.7	105.0 97.0	3.5 4.0
	3.8	0.8	1.8	750	30.4	19.4	0.64	1.75	36.4	17.4	750	31.0	2.52	22.4	106.0	3.6
	3.8	0.8	1.8	1000	31.7	21.9	0.69	1.83	37.9	17.3	1000	31.6	2.26	23.9	98.0	4.1
60	5.6 5.6	1.7 1.7	3.8 3.8	750 1000	31.1 32.4	19.6 22.2	0.63 0.69	1.64 1.71	36.7 38.2	18.9 18.9	750 1000	32.4 33.1	2.55 2.28	23.7 25.3	108.0 99.0	3.7 4.2
	7.5	3.1	7.2	750	31.4	19.7	0.63	1.59	36.8	19.7	750	33.2	2.57	24.4	109.0	3.8
	7.5	3.1	7.2	1000	32.7	22.3	0.68	1.65	38.3	19.8	1000	33.9	2.30	26.0	100.0	4.3
	3.8	0.7	1.6	750	29.0	18.8	0.65	1.94	35.6	14.9	750	34.0	2.58	25.2	110.0	3.9
	3.8 5.6	0.7 1.5	1.6 3.6	1000 750	30.2 30.0	21.2 19.2	0.70 0.64	2.02 1.81	37.1 36.2	14.9 16.6	1000 750	34.8 35.6	2.31 2.62	26.9 26.7	101.0 112.0	4.4 4.0
70	5.6	1.5	3.6	1000	31.2	21.7	0.70	1.89	37.7	16.5	1000	36.5	2.34	28.5	102.0	4.6
	7.5	2.9	6.7	750	30.4	19.4	0.64	1.75	36.4	17.4	750	36.4	2.64	27.4	113.0	4.0
	7.5	2.9	6.7	1000	31.7	21.9	0.69	1.83	37.9	17.3	1000	37.4	2.36	29.3	103.0	4.6
	3.8 3.8	0.7 0.7	1.5 1.5	750 1000	27.7 28.8	18.3 20.7	0.66 0.72	2.15 2.24	35.0 36.4	12.9 12.8	750 1000	37.0 38.0	2.65 2.37	28.0 29.9	114.0 104.0	4.1 4.7
00	5.6	1.4	3.3	750	28.5	18.5	0.65	2.01	35.4	14.2	750	38.7	2.69	29.5	116.0	4.2
80	5.6	1.4	3.3	1000	29.6	21.0	0.71	2.10	36.8	14.1	1000	39.7	2.41	31.5	105.0	4.8
	7.5	2.7	6.3	750	29.0	18.7	0.64	1.94	35.6	14.9	750	39.9	2.72	30.6	117.0	4.3
	7.5	2.7 0.6	6.3 1.4	1000 750	30.2 26.7	21.2 17.8	0.70 0.67	2.02	37.1 34.5	14.9 11.7	1000 750	40.9 38.5	2.44	32.6 29.3	106.0 116.0	4.9 4.2
	3.8	0.6	1.4	1000	27.8	20.1	0.72	2.37	35.9	11.7	1000	39.6	2.44	31.3	105.0	4.8
85	5.6	1.4	3.2	750	27.6	18.2	0.66	2.12	34.8	13.0	750	40.2	2.74	30.8	118.0	4.3
03	5.6	1.4	3.2	1000	28.8	20.6	0.72	2.21	36.3	13.0	1000	41.2	2.44	32.9	107.0	4.9
	7.5 7.5	2.7 2.7	6.2 6.2	750 1000	28.2 29.3	18.4 20.8	0.65 0.71	2.05 2.14	35.2 36.6	13.7 13.7	750 1000	41.1 42.2	2.74 2.44	31.7 33.9	119.0 108.0	4.4 5.1
	3.8	0.6	1.4	750	25.7	17.3	0.67	2.40	33.9	10.7	750	39.9	2.73	30.6	117.0	4.3
	3.8	0.6	1.4	1000	26.8	19.6	0.73	2.50	35.3	10.7	1000	41.1	2.45	32.7	107.0	4.9
90	5.6 5.6	1.4 1.4	3.1 3.1	750 1000	26.8 27.9	17.8 20.1	0.66 0.72	2.24 2.33	34.4 35.9	12.0 12.0	750 1000	41.6 42.8	2.79 2.50	32.1 34.3	120.0 108.0	4.4 5.0
	7.5	2.6	6.0	750	27.3	18.0	0.72	2.16	34.7	12.6	750	42.5	2.82	32.9	121.0	4.4
	7.5	2.6	6.0	1000	28.5	20.4	0.72	2.25	36.2	12.7	1000	43.7	2.53	35.1	109.0	5.1
	3.8	0.6	1.3	750	24.0	16.6	0.69	2.68	33.1	8.9						
	3.8 5.6	0.6 1.3	1.3 3.0	1000 750	24.9 25.1	18.8 17.0	0.76 0.68	2.79 2.50	34.4 33.6	8.9 10.0						
100	5.6	1.3	3.0	1000	26.1	19.3	0.74	2.61	35.0	10.0						
	7.5	2.5	5.7	750	25.6	17.3	0.68	2.42	33.9	10.6						
	7.5	2.5	5.7	1000	26.7	19.6	0.73	2.52	35.3	10.6						
	3.8 3.8	0.5 0.5	1.2 1.2	750 1000	22.5 23.5	16.1 18.2	0.72 0.77	3.01 3.13	32.8 34.2	7.5 7.5						
140	5.6	1.2	2.8	750	23.2	16.3	0.70	2.80	32.8	8.3		Opore	tion not	rocome	onded	
110	5.6	1.2	2.8	1000	24.2	18.4	0.76	2.92	34.2	8.3		-Opera	tion not	recomm	lended	
	7.5	2.4	5.5	750	23.8	16.5	0.69	2.71	33.1	8.8						
	7.5	0.5	5.5 1.1	1000 750	24.8	18.7 15.2	0.75 0.75	2.82 3.38	34.4	8.8 6.0						
	3.8	0.5	1.1	1000	21.2	17.2	0.81	3.52	33.2	6.0						
120	5.6	1.2	2.7	750	21.4	15.6	0.73	3.15	32.2	6.8						
	5.6 7.5	1.2 2.3	2.7 5.3	1000 750	22.3 22.0	17.6 15.8	0.79 0.72	3.28 3.04	33.5 32.4	6.8 7.2						
	7.5	2.3	5.3 5.3	1000	22.0 22.9	15.8	0.72	3.04	32.4 33.7	7.2 7.2						
			2.0				0				1					

Interpolation is permissible; extrapolation is not.

All entering air conditions are 80°F DB and 67°F WB in cooling, and 70°F DB in heating.

AHRI/SO certified conditions are 80.0°F DB and 66.2°F WB in cooling and 68°F DB in heating.

Table does not reflect fan or pump power corrections for AHRI/ISO conditions.

All performance is based upon the lower voltage of dual voltage rated units.

Performance stated is at the rated power supply, performance may vary as the power supply varies from the rated.

Operation below 40°F EWT requires optional insulated water/refrigerant circuit.

See performance correction tables for operating conditions other than those listed above.

See Performance Data Selection Notes for operating not the shaded areas.

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Performance Data - TC H/V 036 (PSC Blower)

1,200 CFM Nominal (Rated) Airflow

Performance capacities shown in thousands of Btuh

EWT	05	PD		(Cooling	g - EAT	80/67°	F			Не	eating -	EAT 7	0°F		
°F	GPM	PSI	FT	Airflow CFM	TC	sc	Sens/Tot Ratio	kW	HR	EER	Airflow CFM	нс	kW	HE	LAT	СОР
20	9.0 9.0	6.4 6.4	14.8 14.8		0	peration	not reco	mmend	ed		860 1150	22.6 23.2	2.67 2.39	14.1 15.1	94 89	2.49 2.84
	4.5	1.8	4.3	860	39.9	24.2	0.61	1.67	45.6	23.8	860	25.6	2.80	16.6	98	2.68
	4.5	1.8	4.3	1150	41.5 40.1	27.4 24.3	0.66	1.74 1.62	47.4 45.5	23.8	1150 860	26.2	2.51	17.7 17.6	91 99	3.06
30	6.8	3.1 3.1	7.1 7.1	860 1150	40.1	24.3 27.5	0.61 0.66	1.62	45.5 47.4	24.7 24.7	1150	26.8 27.5	2.85 2.56	18.8	99	2.76 3.15
	9.0	5.4	12.5	860	40.0	24.3	0.61	1.60	45.5	25.0	860	27.5	2.88	18.2	100	2.80
	9.0	5.4 1.6	12.5 3.6	1150 860	41.7 39.2	27.5 24.0	0.66	1.67	47.3 45.3	25.0 21.8	1150 860	28.2 30.1	2.59	19.4	93	3.19 2.95
	4.5	1.6	3.6	1150	40.8	27.2	0.67	1.87	47.1	21.8	1150	30.8	2.68	21.7	95	3.37
40	6.8	2.7	6.2	860	39.7	24.2	0.61	1.71	45.5	23.3	860	31.6	3.05	21.6	104	3.04
	6.8 9.0	2.7 4.8	6.2 11.1	1150 860	41.4 39.9	27.4 24.3	0.66 0.61	1.78 1.67	47.4 45.6	23.3 23.9	1150 860	32.4 32.4	2.74 3.08	23.1 22.3	96 105	3.47 3.09
	9.0	4.8	11.1	1150	41.6	27.4	0.66	1.74	47.4	23.9	1150	33.2	2.77	23.8	97	3.52
	4.5 4.5	1.4 1.4	3.2 3.2	860 1150	38.0 39.5	23.6 26.7	0.62 0.68	1.98 2.06	44.7 46.5	19.2 19.2	860 1150	34.5 35.4	3.16 2.84	24.1 25.7	107 98	3.20 3.65
F0	6.8	2.4	5.6	860	38.8	23.9	0.62	1.85	45.1	21.0	860	36.3	3.23	25.6	109	3.30
50	6.8	2.4	5.6	1150	40.4	27.0	0.67	1.92	47.0	21.0	1150	37.2	2.90	27.3	100	3.76
	9.0 9.0	4.4 4.4	10.1 10.1	860 1150	39.2 40.8	24.0 27.2	0.61 0.67	1.79 1.87	45.3 47.2	21.9 21.9	860 1150	37.3 38.2	3.27 2.93	26.4 28.2	110 101	3.35 3.82
	4.5	1.3	2.9	860	36.1	22.9	0.63	2.20	43.6	16.4	860	38.9	3.32	27.8	112	3.43
	4.5	1.3	2.9	1150	37.6	25.9	0.69	2.29	45.4	16.4	1150	39.8	2.99	29.7	102	3.91
60	6.8 6.8	2.3 2.3	5.2 5.2	860 1150	37.5 39.1	23.5 26.5	0.63 0.68	2.04 2.13	44.4 46.3	18.4 18.4	860 1150	40.9 41.9	3.40 3.05	29.5 31.5	114 104	3.53 4.02
	9.0	4.0	9.3	860	38.0	23.6	0.62	1.97	44.7	19.3	860	42.0	3.44	30.4	115	3.58
	9.0 4.5	<u>4.0</u> 1.2	9.3	1150 860	39.6 34.6	26.7 22.5	0.68	2.05	46.5 42.9	19.3 14.0	1150 860	43.0 43.1	3.09	32.5 31.4	105 116	4.08 3.64
	4.5	1.2	2.7	1150	36.0	25.5	0.71	2.56	44.7	14.0	1150	44.1	3.12	33.5	106	4.15
70	6.8	2.1	4.9	860	35.8	22.9	0.64	2.28	43.6	15.7	860	45.2	3.55	33.2	119	3.74
	6.8 9.0	2.1 3.8	4.9 8.7	1150 860	37.3 36.4	25.9 23.1	0.70 0.63	2.38 2.20	45.4 43.9	15.7 16.6	1150 860	46.3 46.4	3.19 3.59	35.4 34.2	107 120	4.26 3.79
	9.0	3.8	8.7	1150	37.9	26.1	0.69	2.29	45.7	16.6	1150	47.5	3.22	36.5	108	4.32
	4.5 4.5	1.1 1.1	2.5 2.5	860 1150	32.5 33.8	21.8 24.7	0.67 0.73	2.76 2.88	41.9 43.7	11.8 11.8	860 1150	47.0 48.2	3.61 3.24	34.8 37.1	121 109	3.82 4.36
90	6.8	2.0	4.6	860	33.9	22.3	0.75	2.56	42.6	13.2	860	49.2	3.68	36.6	123	3.92
80	6.8	2.0	4.6	1150	35.3	25.2	0.72	2.67	44.4	13.2	1150	50.4	3.30	39.1	111	4.47
	9.0 9.0	3.6 3.6	8.3 8.3	860 1150	34.5 35.9	22.5 25.5	0.65 0.71	2.47 2.57	42.9 44.7	14.0 14.0	860 1150	50.3 51.5	3.71 3.34	37.6 40.1	124 111	3.97 4.53
	4.5	1.0	2.4	860	31.5	21.5	0.68	2.9	41.5	10.8	860	48.8	3.67	36.3	123	3.90
	4.5 6.8	1.0 1.9	2.4 4.4	1150 860	32.8 32.8	24.4 21.9	0.74 0.67	3.05 2.72	43.3 42.1	10.8 12.1	1150 860	50.0 50.9	3.29 3.73	38.8 38.1	110 125	4.45 4.00
85	6.8	1.9	4.4	1150	34.1	24.8	0.73	2.84	43.8	12.1	1150	52.2	3.35	40.7	112	4.56
	9.0 9.0	3.5	8.1	860	33.4	22.1	0.66	2.62	42.3	12.8	860	52.0	3.76	39.0 41.7	126	4.05
	4.5	3.5 1.0	2.3	1150 860	34.7	25.0 21.2	0.72	2.73 3.10	44.1 41.1	12.8 9.8	1150 860	53.2 50.6	3.38	37.9	113 125	4.62 3.99
	4.5	1.0	2.3	1150	31.8	24.0	0.76	3.23	42.8	9.8	1150	51.9	3.34	40.4	112	4.54
90	6.8 6.8	1.9 1.9	4.3 4.3	860 1150	31.7 33.0	21.6 24.4	0.68 0.74	2.88 3.00	41.6 43.3	11.0 11.0	860 1150	52.7 54.0	3.79 3.40	39.6 42.3	127 113	4.08 4.65
	9.0	3.4	7.9	860	32.2	21.7	0.67	2.78	41.7	11.6	860	53.7	3.82	40.5	128	4.12
	9.0	<u>3.4</u> 0.9	7.9	1150 860	33.5 28.3	24.5 20.5	0.73 0.72	2.89 3.47	43.4 40.2	11.6 8.1	1150	55.0	3.43	43.2	114	4.70
	4.5	0.9	2.2	1150	20.3 29.5	23.1	0.72	3.62	41.9	8.2						
100	6.8	1.8	4.1	860	29.5	20.8	0.71	3.24	40.6	9.1						
100	6.8 9.0	1.8 3.3	4.1 7.5	1150 860	30.7 30.1	23.5 21.0	0.77 0.70	3.37 3.13	42.2 40.8	9.1 9.6						
	9.0	3.3	7.5	1150	31.3	23.7	0.76	3.25	42.5	9.6						
	4.5	0.9	2.1	860	26.2	19.8	0.75	3.88	39.5	6.8						
440	4.5 6.8	0.9 1.7	2.1 4.0	1150 860	27.3 27.2	22.4 20.0	0.82 0.73	4.04 3.63	41.1 39.7	6.8 7.5						
110	6.8	1.7	4.0	1150	28.4	22.6	0.80	3.78	41.3	7.5		Opera	ation not	recomm	nended_	
	9.0 9.0	3.1 3.1	7.2 7.2	860 1150	27.6 28.8	20.0 22.7	0.72 0.79	3.51 3.65	39.6 41.3	7.9 7.9						
	4.5	0.9	2.0	860	24.1	19.0	0.79	4.31	38.9	5.6						
	4.5	0.9	2.0	1150	25.1	21.4	0.86	4.49	40.4	5.6						
120	6.8 6.8	1.6 1.6	3.8 3.8	860 1150	25.1 26.1	19.2 21.8	0.77 0.83	4.05 4.21	39.0 40.6	6.2 6.2						
	9.0	3.0	7.0	860	25.4	19.2	0.76	3.92	38.9	6.5						
	9.0	3.0	7.0	1150	26.5	21.8	0.82	4.08	40.5	6.5						

Interpolation is permissible; extrapolation is not.

All entering air conditions are 80°F DB and 67°F WB in cooling, and 70°F DB in heating.

AHRI/ISO certified conditions are 80.6°F DB and 66.2°F WB in cooling and 68°F DB in heating.

Table does not reflect fan or pump power corrections for AHRI/ISO conditions.

All performance is based upon the lower voltage of dual voltage rated units.

Performance stated is at the rated power supply; performance may vary as the power supply varies from the rated.

Operation below 40°F EWT is based upon a 15% methanol antifreeze solution.

Operation below 60°F EWT requires optional insulated water/refrigerant circuit.

See performance correction tables for operating conditions other than those listed above.

See Performance Data Selection Notes for operating on the shaded areas.

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Performance Data - TC H/V 036 (ECM Blower)

1125 CFM Nominal (Rated) Airflow

Performance capacities sho	wn in thousands of Btuh
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EWT		WI	PD			Cooling	g - EAT 8	30/67°F					ating -			
°F	GPM	PSI	FT	Airflow CFM	тс	sc	Sens/Tot Ratio	kW	HR	EER	Airflow CFM	нс	kW	HE	LAT	СОР
20	9.0 9.0	6.4 6.4	14.8 14.8		С	peration	not recor	nmende	ed		860 1125	23.1 23.1	2.63 2.35	14.1 15.1	92.0 87.0	2.6 2.9
	4.5	1.8	4.3	860	39.9	24.2	0.61	1.63	45.5	24.4	860	26.0	2.76	16.6	95.0	2.8
	4.5	1.8	4.3	1125	41.5 40.1	27.4	0.66	1.70	47.3	24.4	1125	26.1 27.2	2.47	17.7	89.0	3.1
30	6.8 6.8	3.1 3.1	7.1 7.1	860 1125	40.1	24.3 27.5	0.61 0.66	1.58 1.65	45.5 47.3	25.3 25.2	860 1125	27.4	2.81 2.52	17.6 18.8	96.0 90.0	2.8 3.2
	9.0	5.4	12.5	860	40.0	24.3	0.61	1.56	45.3	25.6	860	27.9	2.84	18.2	97.0	2.9
	9.0	5.4	12.5	1125	41.7	27.5	0.66	1.63	47.3	25.5	1125	28.1	2.55	19.4	90.0	3.2
	4.5 4.5	1.6 1.6	3.6 3.6	860 1125	39.2 40.8	24.0 27.2	0.61 0.67	1.76 1.83	45.2 47.1	22.2 22.3	860 1125	30.3 30.7	2.94 2.64	20.3 21.7	99.0 92.0	3.0 3.4
40	6.8	2.7	6.2	860	39.7	24.2	0.61	1.67	45.4	23.7	860	31.9	3.01	21.6	100.0	3.1
40	6.8	2.7	6.2	1125	41.4	27.4	0.66	1.74	47.3	23.8	1125	32.3	2.70	23.1	93.0	3.5
	9.0 9.0	4.8 4.8	11.1 11.1	860 1125	39.9 41.6	24.3 27.4	0.61 0.66	1.63 1.70	45.5 47.4	24.4 24.4	860 1125	32.7 33.1	3.04 2.73	22.3 23.8	101.0 94.0	3.1 3.6
	4.5	1.4	3.2	860	38.0	23.6	0.62	1.94	44.6	19.6	860	34.8	3.12	24.1	103.0	3.3
	4.5	1.4	3.2	1125	39.5	26.7	0.68	2.02	46.4	19.5	1125	35.3	2.80	25.7	95.0	3.7
50	6.8	2.4	5.6	860	38.8	23.9	0.62	1.81	45.0	21.4	860	36.5	3.19	25.6	104.0	3.4
	6.8 9.0	2.4 4.4	5.6 10.1	1125 860	40.4 39.2	27.0 24.0	0.67 0.61	1.88 1.75	46.8 45.2	21.5 22.4	1125 860	37.1 37.4	2.86 3.23	27.3 26.4	96.0 105.0	3.8 3.4
	9.0	4.4	10.1	1125	40.8	27.2	0.67	1.83	47.1	22.3	1125	38.1	2.89	28.2	97.0	3.9
	4.5	1.3	2.9	860	36.1	22.9	0.63	2.16	43.5	16.7	860	39.0	3.28	27.8	106.0	3.5
	4.5 6.8	1.3 2.3	2.9 5.2	1125 860	37.6 37.5	25.9 23.5	0.69 0.63	2.25 2.00	45.3 44.3	16.7 18.7	1125 860	39.8 41.0	2.95 3.36	29.7 29.5	98.0 108.0	3.9 3.6
60	6.8	2.3	5.2	1125	39.1	26.5	0.68	2.09	46.2	18.7	1125	41.8	3.01	31.5	99.0	4.1
	9.0	4.0	9.3	860	38.0	23.6	0.62	1.93	44.6	19.7	860	42.0	3.40	30.4	109.0	3.6
	9.0 4.5	4.0 1.2	9.3	1125	39.6 34.6	26.7 22.5	0.67	2.01	46.5	19.7	1125 860	42.9 43.1	3.05	32.5 31.4	100.0	4.1
	4.5	1.2	2.7	860 1125	36.0	22.5 25.5	0.65	2.42 2.52	42.9 44.6	14.3 14.3	1125	44.0	3.43 3.08	33.5	110.0 101.0	3.7 4.2
70	6.8	2.1	4.9	860	35.8	22.9	0.64	2.24	43.5	16.0	860	45.2	3.51	33.2	112.0	3.8
10	6.8	2.1	4.9	1125	37.3	25.9	0.69	2.34	45.3	15.9	1125	46.2	3.15	35.4	102.0	4.3
	9.0 9.0	3.8 3.8	8.7 8.7	860 1125	36.4 37.9	23.1 26.1	0.63 0.69	2.16 2.25	43.8 45.6	16.8 16.8	860 1125	46.3 47.4	3.55 3.18	34.2 36.5	113.0 103.0	3.8 4.4
	4.5	1.1	2.5	860	32.5	21.8	0.67	2.72	41.8	11.9	860	47.0	3.57	34.8	114.0	3.9
	4.5	1.1	2.5	1125	33.8	24.7	0.73	2.84	43.5	11.9	1125	48.0	3.20	37.1	104.0	4.4
80	6.8 6.8	2.0 2.0	4.6 4.6	860 1125	33.9 35.3	22.3 25.2	0.66 0.71	2.52 2.63	42.5 44.3	13.4 13.4	860 1125	49.0 50.2	3.64 3.26	36.6 39.1	116.0 105.0	3.9 4.5
	9.0	3.6	8.3	860	34.5	22.5	0.65	2.43	42.8	14.2	860	50.2	3.67	37.6	117.0	4.0
	9.0	3.6	8.3	1125	35.9	25.5	0.71	2.53	44.5	14.2	1125	51.4	3.30	40.1	106.0	4.6
	4.5 4.5	1.0 1.0	2.4	860	31.5	21.5	0.68	2.86	41.3	11.0	860	48.7	3.63	36.3	116.0	3.9
	6.8	1.0	2.4 4.4	1125 860	32.8 32.8	24.4 21.9	0.74 0.67	3.01 2.68	43.1 42.0	10.9 12.2	1125 860	49.9 50.7	3.25 3.69	38.8 38.1	105.0 118.0	4.5 4.0
85	6.8	1.9	4.4	1125	34.1	24.8	0.73	2.80	43.7	12.2	1125	52.0	3.31	40.7	107.0	4.6
	9.0	3.5	8.1	860	33.4	22.1	0.66	2.58	42.2	12.9	860	51.7	3.72	39.0	119.0	4.1
	9.0 4.5	3.5 1.0	2.3	1125 860	34.7	25.0 21.2	0.72	2.69 3.06	43.9	12.9	1125 860	53.1 50.5	3.34	41.7 37.9	108.0 117.0	4.7
	4.5	1.0	2.3	1125	31.8	24.0	0.75	3.19	42.7	10.0	1125	51.7	3.30	40.4	107.0	4.6
90	6.8	1.9	4.3	860	31.7	21.6	0.68	2.84	41.4	11.2	860	52.4	3.75	39.6	120.0	4.1
	6.8 9.0	1.9	4.3	1125	33.0	24.4	0.74	2.96	43.1	11.1	1125	53.8	3.36	42.3	108.0	4.7
	9.0	3.4 3.4	7.9 7.9	860 1125	32.2 33.5	21.7 24.5	0.67 0.73	2.74 2.85	41.6 43.2	11.7 11.7	860 1125	53.4 54.8	3.78 3.39	40.5 43.2	121.0 109.0	4.1 4.7
	4.5	0.9	2.2	860	28.3	20.5	0.72	3.43	40.0	8.2						
	4.5	0.9	2.2	1125	29.5	23.1	0.78	3.58	41.7	8.2						
100	6.8 6.8	1.8 1.8	4.1 4.1	860 1125	29.5 30.7	20.8 23.5	0.71 0.77	3.20 3.33	40.4 42.1	9.2 9.2						
	9.0	3.3	7.5	860	30.1	21.0	0.70	3.09	40.7	9.7						
	9.0	3.3	7.5	1125	31.3	23.7	0.76	3.21	42.3	9.7						
	4.5 4.5	0.9 0.9	2.1 2.1	860 1125	26.2 27.3	19.8 22.4	0.76 0.82	3.84 4.00	39.3 41.0	6.8 6.8						
4	6.8	1.7	4.0	860	27.3 27.2	20.0	0.82	4.00 3.59	39.5	6.8 7.6						
110	6.8	1.7	4.0	1125	28.4	22.6	0.80	3.74	41.2	7.6	Operation not recommended					
	9.0	3.1	7.2	860	27.6	20.0	0.72	3.47	39.4	7.9						
	9.0 4.5	3.1 0.9	7.2 2.0	1125 860	28.8	22.7 19.0	0.79	3.61 4.27	41.1 38.7	8.0 5.6	5.6					
	4.5	0.9	2.0	1125	25.1	21.4	0.85	4.45	40.3	5.6						
120	6.8	1.6	3.8	860	25.1	19.2	0.76	4.01	38.8	6.3						
	6.8 9.0	1.6 3.0	3.8 7.0	1125 860	26.1 25.4	21.8 19.2	0.84 0.76	4.17 3.88	40.3 38.6	6.3 6.5						
	9.0	3.0	7.0	1125	26.5	21.8	0.76	4.04	40.3	6.6						

Interpolation is permissible; extrapolation is not.

All entering air conditions are 80°F DB and 67°F WB in cooling, and 70°F DB in heating.

AHRI/ISO certified conditions are 80.0°F DB and 66.2°F WB in cooling and 68°F DB in heating.

Table does not reflect fan or pump power corrections for AHRI/ISO conditions.

All performance is based upon the lower voltage of dual voltage rated units.

Performance stated is at the rated power supply; performance may vary as the power supply varies from the rated.

Operation below 40°F EWT is based upon a 15% methanol antifreeze solution.

Operation below 60°F EWT requires optional insulated water/refrigerant circuit.

See performance correction tables for operating conditions other than those listed above.

See Performance Data Selection Notes for operating nonditions other than those listed above.

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Performance Data - TCV 041 (PSC Blower)

1125 CFM Nominal (Rated) Airflow

Performance capacities shown in thousands of Btuh

EMT		W	PD	Ittalo		Cooling - I	EAT 80/67	°F	renorm	Performance capacities shown in thousands of Btuh Heating - EAT 70°F							
EWT	GPM		T	Airflow		T	I	I		Airflow	110	_		1	000		
٥F	46.5	PSI	FT	CFM	TC	SC	kW	HR	EER	CFM	HC	kW	HE	LAT	СОР		
20	10.0	8.8 8.8	20.3 20.3		Ор	eration not	recomme	nded		845 1125	26.6 27.2	3.17 2.85	16.5 17.6	99.1 92.4	2.5 2.8		
	5.0	2.2	5.0	845	45.0	25.2	1.64	50.5	27.4	845	28.8	3.23	18.4	101.6	2.6		
	5.0	2.2	5.0	1125	46.8	28.5	1.71	52.6	27.4	1125	29.5	2.90	19.7	94.3	3.0		
30	7.5 7.5	4.6 4.6	10.7 10.7	845 1125	45.8 47.6	25.3 28.6	1.51 1.57	50.8 52.9	30.4 30.4	845 1125	29.9 30.7	3.26 2.93	19.4 20.7	102.8 95.2	2.7 3.1		
	10.0	7.7	17.9	845	46.1	25.3	1.44	50.9	32.1	845	30.5	3.28	20.0	103.5	2.7		
	10.0	7.7	17.9	1125	48.0	28.6	1.50	53.0	32.1	1125	31.3	2.94	21.3	95.7	3.1		
	5.0 5.0	1.9 1.9	4.3 4.3	845 1125	43.8 45.6	24.9 28.1	1.81 1.89	50.0 52.0	24.2 24.2	845 1125	32.4 33.2	3.33 2.99	21.6 23.1	105.6 97.4	2.9 3.3		
40	7.5	4.0	9.3	845	44.3	25.0	1.75	50.2	25.3	845	33.8	3.37	22.8	107.0	2.9		
40	7.5 10.0	4.0 6.9	9.3	1125 845	46.1 44.6	28.3 25.1	1.82 1.70	52.3 50.4	25.3 26.2	1125 845	34.6 34.5	3.02 3.39	24.3 23.4	98.5 107.8	3.4 3.0		
	10.0	6.9	19.9 19.9	1125	46.5	28.4	1.70	50.4 52.4	26.2	1125	34.5 35.3	3.39	25.4 25.0	99.1	3.4		
	5.0	1.6	3.6	845	42.4	24.4	1.99	49.2	21.3	845	36.1	3.43	24.8	109.6	3.1		
	5.0 7.5	1.6 3.5	3.6 8.0	1125 845	44.2 43.5	27.6 24.8	2.07 1.86	51.2 49.8	21.3 23.4	1125 845	37.0 37.6	3.08 3.47	26.5 26.2	100.4 111.2	3.5 3.2		
50	7.5	3.5	8.0	1125	45.3	28.0	1.93	51.8	23.4	1125	38.5	3.47	27.9	101.7	3.6		
	10.0	6.1	14.2	845	44.0	24.9	1.79	50.1	24.6	845	38.4	3.50	26.9	112.1	3.2		
	10.0	6.1	14.2	1125	45.8	28.2	1.86	52.1	24.6	1125	39.4	3.14	28.7	102.4	3.7		
	5.0	1.3 1.3	3.0 3.0	845 1125	40.9 42.6	23.8 27.0	2.18 2.27	48.3 50.3	18.8 18.8	845 1125	39.7 40.7	3.53 3.17	28.0 29.9	113.5 103.5	3.3 3.8		
60	7.5	3.0	7.0	845	42.1	24.3	2.04	49.0	20.6	845	41.5	3.58	29.5	115.4	3.4		
00	7.5	3.0	7.0	1125	43.8	27.4	2.12	51.0	20.6	1125	42.5	3.22	31.5	104.9	3.9		
	10.0	5.5 5.5	12.8 12.8	845 1125	42.6 44.4	24.5 27.7	1.97 2.05	49.3 51.3	21.7 21.7	845 1125	42.4 43.4	3.61 3.24	30.3 32.4	116.4 105.7	3.4 3.9		
	5.0	1.1	2.6	845	39.2	23.2	2.39	47.3	16.4	845	43.4	3.64	31.2	117.5	3.5		
	5.0	1.1	2.6	1125	40.8	26.2	2.49	49.3	16.4	1125	44.4	3.27	33.3	106.6	4.0		
70	7.5 7.5	2.6 2.6	6.1 6.1	845 1125	40.5 42.1	23.6 26.8	2.23 2.33	48.1 50.0	18.1 18.1	845 1125	45.3 46.4	3.69 3.32	32.8 35.1	119.6 108.2	3.6 4.1		
	10.0	5.1	11.7	845	41.1	23.9	2.33	48.4	19.0	845	46.4	3.73	33.7	120.7	3.6		
	10.0	5.1	11.7	1125	42.8	27.0	2.25	50.4	19.0	1125	47.4	3.35	36.0	109.0	4.2		
	5.0	0.9	2.2	845	37.4	22.5	2.63	46.4	14.2	845	47.0	3.75	34.3	121.5	3.7		
	5.0 7.5	0.9 2.3	2.2 5.4	1125 845	38.9 38.7	25.4 23.0	2.74 2.46	48.3 47.1	14.2 15.8	1125 845	48.1 49.1	3.37 3.81	36.7 36.1	109.6 123.8	4.2 3.8		
80	7.5	2.3	5.4	1125	40.3	26.0	2.56	49.0	15.8	1125	50.3	3.43	38.6	111.4	4.3		
	10.0	4.7	11.0	845	39.4	23.2	2.37	47.4	16.6	845	50.2	3.85	37.1	125.0	3.8		
	10.0 5.0	4.7 0.9	11.0 2.0	1125 845	41.0 36.4	26.3 22.1	2.47	49.4 45.9	16.6 13.2	1125 845	51.4 48.8	3.46	39.6 35.9	112.3 123.5	4.4 3.8		
	5.0	0.9	2.0	1125	37.9	25.0	2.88	47.8	13.2	1125	50.0	3.4	38.3	111.1	4.3		
85	7.5	2.2	5.1	845	37.8	22.6	2.58	46.6	14.7	845	51.0	3.9	37.8	125.9	3.9		
	7.5 10.0	2.2 4.6	5.1 10.7	1125 845	39.3 38.4	25.6 22.9	2.69 2.49	48.5 46.9	14.7 15.5	1125 845	52.2 52.1	3.5 3.9	40.3 38.8	113.0 127.1	4.4 3.9		
	10.0	4.6	10.7	1125	40.0	25.9	2.60	48.9	15.5	1125	53.4	3.5	41.4	114.0	4.4		
	5.0	0.8	1.9	845	35.5	21.8	2.91	45.4	12.2	845	50.6	3.86	37.4	125.5	3.8		
	5.0 7.5	0.8 2.1	1.9 4.4	1125 845	36.9 36.8	24.6 22.3	3.03 2.71	47.3 46.1	12.2 13.6	1125 845	51.8 52.9	3.47 3.94	40.0 39.4	112.7 127.9	4.4 3.9		
90	7.5	2.1	4.4	1125	38.3	25.2	2.82	48.0	13.6	1125	54.1	3.54	42.0	114.6	4.5		
	10.0	4.6	10.6	845	37.5	22.5	2.62	46.4	14.3	845	54.1	3.99	40.4	129.3	4.0		
	10.0	4.6 0.7	10.6 1.7	1125 845	39.0 31.4	25.5 20.4	2.72 3.61	48.3	14.3 8.7	1125	55.4	3.58	43.2	115.6	4.5		
	5.0	0.7	1.7	1125	32.7	23.0	3.76	45.7	8.7								
100	7.5	2.0	4.5	845	32.8	20.8	3.35	44.2	9.8								
100	7.5	2.0	4.5	1125	34.1	23.6	3.49	46.1	9.8								
	10.0	4.5 4.5	10.5 10.5	845 1125	33.5 34.9	21.1 23.8	3.23 3.36	44.5 46.4	10.4 10.4								
	5.0	0.7	1.5	845	29.3	19.7	4.05	43.2	7.2								
	5.0	0.7	1.5	1125	30.5	22.3	4.22	44.9	7.2								
110	7.5 7.5	1.9 1.9	4.4 4.4	845 1125	30.7 31.9	20.1 22.8	3.75 3.91	43.5 45.3	8.2 8.2		Оре	ration not	recomme	nded			
	10.0	4.6	10.7	845	31.4	20.4	3.61	43.7	8.7								
	10.0	4.6	10.7	1125	32.7	23.0	3.76	45.5	8.7								
	5.0 5.0	0.7 0.7	1.5 1.5	845 1125	27.6 28.7	19.2 21.7	4.45 4.63	42.9 44.6	6.2 6.2								
400	7.5	1.9	4.4	845	29.0	19.6	4.03	44.6	6.∠ 7.1								
120	7.5	1.9	4.4	1125	30.2	22.2	4.28	44.9	7.1								
	10.0	4.8	11.2	845	29.7	19.8	3.95	43.3	7.5								
	10.0	4.8	11.2	1125	30.9	22.4	4.12	45.0	7.5								

Interpolation is permissible; extrapolation is not.

All entering air conditions are 80°F DB and 67°F WB in cooling, and 70°F DB in heating.

AHRI/ISO certified conditions are 80.6°F DB and 66.2°F WB in cooling and 68°F DB in heating.

AHRI/ISO contified conditions are 80.6°F DB and 66.2°F WB in cooling and 68°F DB in heating.

Table does not reflect fan or pump power corrections for AHRI/ISO conditions.

All performance is based upon the lower voltage of dual voltage rated units.

Performance stated is at the rated power supply; performance may vary as the power supply varies from the rated.

Operation below 40°F EWT requires optional insulated water/refrigerant circuit.

See performance correction tables for operating conditions other than those listed above.

See Performance Data Selection Notes for operation in the shaded areas.

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Performance Data - TC H/V 042 (PSC Blower)

1350 CFM Nominal (Rated) Airflow

Performance capacities shown in thousands of Btuh

EWT	2276755	WPD				Coolin	g - EAT	30/67°F				Н	leating -	EAT 70	°F	95 2.51 90 2.86 98 2.68 91 3.06 99 2.76 92 3.15 100 2.80							
°F	GPM	PSI	FT	Airflow CFM	TC	sc	Sens/Tot Ratio	kW	HR	EER	Airflow	нс	kW	HE	LAT	СОР							
20	10.5 10.5	9.2 9.2	21.3 21.3		О	peration	not reco	mmend	ed		1050 1400	28.8 29.5	3.37	18.1 19.3	95								
1	5.3	2.3	5.3	1050	47.4	30.6	0.65	1.87	53.7	25.4	1050	31.6	3.45	20.5									
	5.3	2.3	5.3	1400	49.3	34.7	0.70	1.95	55.9	25.4	1400	32.4	3.10	21.9	91								
30	7.9	4.3	10.0	1050	48.4	31.1	0.64	1.76	54.4	27.5	1050	32.9	3.49	21.6	99								
	7.9	4.3	10.0	1400	50.4	35.2	0.70	1.83	56.6	27.5	1400	33.7	3.14	23.1									
	10.5	7.9 7.9	18.2 18.2	1050 1400	48,9 50,9	31.3 35.5	0.64	1.71	54.7 57.0	28.6 28.6	1050	33.6 34.5	3.52 3.16	22.3 23.8	93								
	5.3	2.0	4.6	1050	45.9	29.9	0.65	2.05	52.8	22.4	1050	36.1	3.59	24.4	102	2.95							
	5.3	2.0	4.6	1400	47.8	33.9	0.71	2.13	55.0	22.4	1400	37.0	3.23	26.1	94	3.36							
40	7.9	3.9	8.9	1050	47.0	30.4	0.65	1.92	53.4	24.5	1050	37.8	3.64	25.8	103	3.04							
10.774	7.9 10.5	3.9 7.1	8.9 16.4	1400 1050	48.9 47.5	34.4	0.70	2.00	55.6 53.8	24.5 25.5	1400	38.7 38.7	3.27 3.67	27.6 26.6	96 104	3.46							
	10.5	7.1	16.4	1400	49.4	34.7	0.70	1.94	56.0	25.5	1400	39.6	3.30	28.4	96	3.52							
	5.3	1.8	4.1	1050	44.4	29.2	0.66	2.26	52.0	19.6	1050	40.8	3.74	28.5	106	3.20							
	5.3	1.8	4.1	1400	46.2	33.1	0.72	2.35	54.2	19.6	1400	41.8	3.36	30.4	98	3.65							
50	7.9	3.5	8.1	1050	45.4	29.7	0.65	2.11	52.6	21.5	1050	42.8	3.80	30.2	108	3.30							
	7.9 10.5	3.5 6.5	8.1 15.0	1400 1050	47.3 46.0	33.6 30.0	0.71	2.20	54.8 52.9	21.5	1400	43.8 43.9	3.41	32.2 31.1	109	3.76 3.35							
	10.5	6.5	15.0	1400	47.9	33.9	0.71	2.12	55.1	22.5	1400	44.9	3.44	33.2	100	3.82							
	5.3	1.6	3.7	1050	43.1	28.8	0.67	2.51	51.7	17.2	1050	45.6	3.89	32.6	110	3.44							
	5.3	1.6	3.7	1400	44.9	32.6	0.73	2.61	53.8	17.2	1400	46.7	3.49	34.8	101	3.92							
60	7.9 7.9	3.3	7.5 7.5	1050	43.9 45.7	29.0 32.8	0.66	2.34	51.8 53.9	18.8 18.8	1050 1400	47.8 49.0	3.96	34.5 36.9	112	3.54 4.04							
	10.5	6.1	14.0	1400 1050	44.4	29.2	0.66	2.45	52.1	19.7	1050	49.0	4.00	35.6	113	3.60							
	10.5	6.1	14.0	1400	46.2	33.1	0.72	2.35	54.2	19.7	1400	50.2	3.59	38.0	103	4.10							
	5.3	1.5	3.4	1050	41.3	28.1	0.68	2.80	50.9	14.8	1050	50.3	4.04	36.7	114	3.65							
	5.3	1.5	3.4	1400	43.0	31.8	0.74	2.91	52.9	14.8	1400	51.5	3.63	39.2	104	4.16							
70	7.9	3.1	7.1 7.1	1050 1400	42.2	28.3 32.0	0.67	2.60	51.0 53.1	16.2 16.2	1050 1400	52.8 54.1	3.70	38.8 41.5	117	3.76 4.29							
	10.5	5.7	13.2	1050	42.8	28.5	0.67	2.51	51.3	17.1	1050	54.1	4.16	40.0	118	3.82							
	10.5	5.7	13.2	1400	44.5	32.3	0.73	2.61	53.4	17.1	1400	55.4	3.73	42.7	107	4.35							
1	5.3	1.4	3.2	1050	39.5	27.4	0.70	3.13	50.1	12.6	1050	54.9	4.18	40.7	118	3.85							
	5.3	1.4	3.2	1400	41.1	31.0	0.76	3.26	52.2	12.6	1400	56.3	3.76	43.4	107	4.39							
80	7.9 7.9	2.9	6.7	1050 1400	40.4	27.6 31.3	0.68	2.91	50.3 52.4	13.9	1050	57.6 59.0	4.27 3.83	43.0 45.9	121	3.96 4.51							
	10.5	5.4	12.6	1050	41.0	27.9	0.68	2.80	50.6	14.6	1050	59.0	4.31	44.2	122	4.01							
	10.5	5,4	12.6	1400	42.7	31.5	0.74	2.92	52.6	14.6	1400	60.4	3.87	47.2	110	4.58							
	5.3	1.3	3.1	1050	38.4	27.1	0.71	3.32	49.8	11.6	1050	57.2	4.25	42.6	120	3.94							
	5.3	1.3	3.1	1400	40.0	30.7	0.77	3.46	51.8	11.6	1400	58.6	3.82	45.5	109	4.49							
85	7.9	2.8	6.5	1050 1400	39.4	27.3 30.9	0.69	3.08	50.0 52.0	12.8 12.9	1050 1400	59.9 61.3	4.34 3.89	44.9 48.0	123	4.05							
	10.5	5.3	12.3	1050	40.1	27.5	0.69	2.97	50.2	13.5	1050	61.3	4.38	46.2	124	4.10							
	10.5	5.3	12.3	1400	41.7	31.2	0.75	3.09	52.3	13.6	1400	62.7	3.93	49.3	111	4.68							
	5.3	1.3	3.0	1050	37.4	26.8	0.72	3.51	49.4	10.7	1050	59.4	4.32	44.6	122	4.03							
	5.3 7.9	1.3	3.0 6.4	1400 1050	39.0 38.5	30.3 27.0	0.78	3.65 3.26	51.5 49.6	10.7	1400	60.8	3.88 4.40	47.6 46.9	110 125	4.59 4.13							
90	7.9	2.8	6.4	1400	40.1	30.6	0.76	3.39	51.6	11.8	1400	63.6	3.96	50.1	112	4.71							
	10.5	5.2	12.0	1050	39.1	27.2	0.70	3.14	49.8	12.5	1050	63.5	4.45	48.1	126	4.19							
	10.5	5.2	12.0	1400	40.7	30.8	0.76	3.27	51.9	12.5	1400	65.1	3.99	51.4	113	4.77							
	5.3	1.2	2.8	1050	35.2	26.2	0.74	3.94	48.7	8.9													
350	5.3 7.9	1.2	2.8 6.1	1400 1050	36.7 36.4	29.6 26.4	0.81	4.10 3.66	50.7 48.9	8.9 9.9													
100	7.9	2.7	6.1	1400	37.9	29.9	0.79	3.81	50.9	9.9													
	10.5	5.0	11.6	1050	37.1	26.6	0.72	3.52	49.1	10.5													
	10.5	5.0	11.6	1400	38.6	30.1	0.78	3.67	51.1	10.5													
	5.3	1.2	2.7	1050 1400	32.8	25.5 28.9	0.78	4.41	47,9 49,9	7.4													
1442	7.9	2.6	5.9	1050	34.1	25.7	0.76	4.11	48.1	8.3		2000	20020-000		23101318								
110	7.9	2.6	5.9	1400	35.5	29.1	0.82	4.28	50.1	8.3		Opera	ation not	recomn	nended								
	10.5	4.8	11.2	1050	34.8	25.9	0.75	3.96	48.4	8.8													
	10.5	4.8	11.2	1400	36.2	29.4	0.81	4.12	50.4	8.8													
	5.3 5.3	1.1	2.6	1050 1400	30.2	24.8 28.0	0.82	4.95 5.15	47.1 49.1	6.1 6.1													
	7.9	2.5	5.7	1050	31.5	25.0	0.79	4.61	47.3	6.8													
120	7.9	2.5	5.7	1400	32.8	28.3	0.86	4.80	49.3	6.8													
	10.5	4.7	10.8	1050	32.3	25.3	0.78	4.45	47.6	7.3													
	10.5	4.7	10.8	1400	33.7	28.6	0.85	4.63	49.5	7.3													

Interpolation is permissible; extrapolation is not.

All entering air conditions are 80°F DB and 67°F WB in cooling, and 70°F DB in heating.

AHRIVISO certified conditions are 80.5°F DB and 66.2°F WB in cooling and 68°F DB in heating.

Table does not reflect fan or pump power corrections for AHRIVISO conditions.

All performance is based upon the lower voitage of dual voitage rated units.

Performance stated is at the rated power supply; performance may vary as the power supply varies from the rated.

Operation below 40°F EWT requires optional insulated water/refrigerant circuit.

See performance correction tables for operating conditions other than those listed above.

See Performance Data Selection Notes for operating conditions of the than those listed above.

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Performance Data - TC H/V 042 (ECM Blower)

1400 CFM Nominal (Rated) Airflow

Performance capacities shown in thousands of Btuh

EWT	CIWII		PD				g - EAT 8	30/67°F	=		Heating - EAT 70°F					
°F	GPM	PSI	FT	Airflow CFM	TC	sc	Sens/Tot Ratio	kW	HR	EER	Airflow CFM	нс	kW	HE	LAT	СОР
20	10.5 10.5	9.2 9.2	21.3 21.3		C	peration	not reco	mmende	ed		1050 1400	29.1 29.1	3.21 2.87	18.1 19.3	92.0 87.0	2.7 3.0
	5.3	2.3	5.3	1050	47.4	30.6	0.65	1.71	53.2	27.7	1050	31.7	3.29	20.5	95.0	2.8
	5.3	2.3	5.3	1400	49.3	34.7	0.70	1.79	55.4	27.5	1400	31.9	2.94	21.9	89.0	3.2
30	7.9	4.3	10.0	1050	48.4	31.1	0.64	1.60	53.9	30.2	1050	33.0	3.33	21.6	96.0	2.9
	7.9 10.5	4.3 7.9	10.0 18.2	1400 1050	50.4 48.9	35.2 31.3	0.70 0.64	1.67 1.55	56.1 54.2	30.2 31.5	1400 1050	33.3 33.8	2.98 3.36	23.1 22.3	90.0 97.0	3.3 2.9
	10.5	7.9	18.2	1400	50.9	35.5	0.70	1.62	56.4	31.4	1400	34.0	3.00	23.8	90.0	3.3
	5.3	2.0	4.6	1050	45.9	29.9	0.65	1.89	52.4	24.3	1050	36.1	3.43	24.4	99.0	3.1
	5.3	2.0	4.6	1400	47.8	33.9	0.71	1.97	54.5	24.3	1400	36.6	3.07	26.1	92.0	3.5
40	7.9 7.9	3.9	8.9	1050	47.0	30.4	0.65	1.76	53.0	26.7	1050	37.7	3.48	25.8	100.0	3.2
	10.5	3.9 7.1	8.9 16.4	1400 1050	48.9 47.5	34.4 30.7	0.70 0.65	1.84 1.70	55.2 53.3	26.6 27.9	1400 1050	38.2 38.6	3.11 3.51	27.6 26.6	93.0 101.0	3.6 3.2
	10.5	7.1	16.4	1400	49.4	34.7	0.70	1.78	55.5	27.8	1400	39.1	3.14	28.4	94.0	3.7
	5.3	1.8	4.1	1050	44.4	29.2	0.66	2.10	51.6	21.1	1050	40.7	3.58	28.5	103.0	3.3
	5.3	1.8	4.1	1400	46.2	33.1	0.72	2.19	53.7	21.1	1400	41.3	3.20	30.4	95.0	3.8
50	7.9 7.9	3.5 3.5	8.1 8.1	1050 1400	45.4 47.3	29.7 33.6	0.65 0.71	1.95 2.04	52.1 54.3	23.3 23.2	1050 1400	42.6 43.3	3.64	30.2 32.2	104.0 96.0	3.4 3.9
	10.5	6.5	15.0	1050	46.0	30.0	0.65	1.88	52.4	24.5	1050	43.6	3.25 3.67	31.1	105.0	3.5
	10.5	6.5	15.0	1400	47.9	33.9	0.71	1.96	54.6	24.4	1400	44.4	3.28	33.2	97.0	4.0
	5.3	1.6	3.7	1050	43.1	28.8	0.67	2.35	51.1	18.3	1050	45.3	3.73	32.6	106.0	3.6
	5.3	1.6	3.7	1400	44.9	32.6	0.73	2.45	53.3	18.3	1400	46.2	3.33	34.8	98.0	4.1
60	7.9	3.3	7.5	1050	43.9	29.0	0.66	2.18	51.3	20.1	1050	47.5	3.80	34.5	108.0	3.7
	7.9 10.5	3.3 6.1	7.5 14.0	1400 1050	45.7 44.4	32.8 29.2	0.72 0.66	2.27 2.09	53.4 51.5	20.1 21.2	1400 1050	48.5 48.7	3.40 3.84	36.9 35.6	99.0 109.0	4.2 3.7
	10.5	6.1	14.0	1400	46.2	33.1	0.72	2.19	53.7	21.1	1400	49.7	3.43	38.0	100.0	4.2
	5.3	1.5	3.4	1050	41.3	28.1	0.68	2.64	50.3	15.6	1050	49.9	3.88	36.7	110.0	3.8
	5.3	1.5	3.4	1400	43.0	31.8	0.74	2.75	52.4	15.6	1400	51.0	3.47	39.2	101.0	4.3
70	7.9	3.1	7.1	1050	42.2	28.3	0.67	2.44	50.5	17.3	1050	52.3	3.95	38.8	112.0	3.9
	7.9 10.5	3.1 5.7	7.1 13.2	1400 1050	43.9 42.8	32.0 28.5	0.73 0.67	2.55 2.35	52.6 50.8	17.2 18.2	1400 1050	53.6 53.6	3.54 4.00	41.5 40.0	102.0 113.0	4.4 3.9
	10.5	5.7	13.2	1400	44.5	32.3	0.67	2.45	52.9	18.2	1400	54.9	3.57	42.7	103.0	4.5
	5.3	1.4	3.2	1050	39.5	27.4	0.69	2.97	49.6	13.3	1050	54.4	4.02	40.7	114.0	4.0
	5.3	1.4	3.2	1400	41.1	31.0	0.75	3.10	51.7	13.3	1400	55.7	3.60	43.4	104.0	4.5
80	7.9	2.9	6.7	1050	40.4	27.6	0.68	2.75	49.8	14.7	1050	57.0	4.11	43.0	116.0	4.1
	7.9 10.5	2.9 5.4	6.7 12.6	1400 1050	42.1 41.0	31.3 27.9	0.74 0.68	2.87	51.9 50.0	14.7 15.5	1400 1050	58.4 58.4	3.67 4.15	45.9 44.2	105.0 117.0	4.7
	10.5	5.4	12.6	1400	42.7	31.5	0.74	2.64 2.76	52.1	15.5	1400	59.9	3.71	44.2	106.0	4.1 4.7
	5.3	1.3	3.1	1050	38.4	27.1	0.71	3.16	49.2	12.2	1050	56.6	4.09	42.6	116.0	4.1
	5.3	1.3	3.1	1400	40.0	30.7	0.77	3.30	51.3	12.1	1400	58.0	3.66	45.5	105.0	4.6
85	7.9	2.8	6.5	1050	39.4	27.3	0.69	2.92	49.4	13.5	1050	59.2	4.18	44.9	118.0	4.1
	7.9 10.5	2.8 5.3	6.5 12.3	1400 1050	41.1 40.1	30.9 27.5	0.75 0.69	3.05 2.81	51.5 49.7	13.5 14.3	1400 1050	60.7 60.6	3.73 4.22	48.0 46.2	107.0 119.0	4.8 4.2
	10.5	5.3	12.3	1400	41.7	31.2	0.75	2.93	51.7	14.3	1400	62.2	3.77	49.3	108.0	4.8
	5.3	1.3	3.0	1050	37.4	26.8	0.72	3.35	48.8	11.2	1050	58.8	4.16	44.6	117.0	4.1
	5.3	1.3	3.0	1400	39.0	30.3	0.78	3.49	50.9	11.2	1400	60.3	3.72	47.6	107.0	4.8
90	7.9	2.8	6.4	1050	38.5	27.0	0.70	3.10	49.1	12.4	1050	61.4	4.24	46.9	120.0	4.2
	7.9 10.5	2.8 5.2	6.4 12.0	1400 1050	40.1 39.1	30.6 27.2	0.76 0.70	3.23 2.98	51.1 49.3	12.4 13.1	1400 1050	63.1 62.7	3.80 4.29	50.1 48.1	108.0 121.0	4.9 4.3
	10.5	5.2	12.0	1400	40.7	30.8	0.76	3.11	51.3	13.1	1400	64.5	3.83	51.4	109.0	4.9
	5.3	1.2	2.8	1050	35.2	26.2	0.74	3.78	48.1	9.3						
	5.3	1.2	2.8	1400	36.7	29.6	0.81	3.94	50.1	9.3						
100	7.9 7.9	2.7 2.7	6.1 6.1	1050 1400	36.4	26.4	0.73	3.50	48.3 50.4	10.4						
	10.5	5.0	11.6	1050	37.9 37.1	29.9 26.6	0.79 0.72	3.65 3.36	48.6	10.4 11.0						
	10.5	5.0	11.6	1400	38.6	30.1	0.78	3.51	50.6	11.0						
	5.3	1.2	2.7	1050	32.8	25.5	0.78	4.25	47.3	7.7						
	5.3	1.2	2.7	1400	34.2	28.9	0.85	4.44	49.4	7.7						
110	7.9	2.6	5.9	1050	34.1	25.7	0.75	3.95	47.6	8.6		Operat	tion not	recomm	nended	
	7.9 10.5	2.6 4.8	5.9 11.2	1400 1050	35.5 34.8	29.1 25.9	0.82 0.74	4.12 3.80	49.6 47.8	8.6 9.2						
	10.5	4.8	11.2	1400	36.2	29.4	0.74	3.96	49.7	9.1						
	5.3	1.1	2.6	1050	30.2	24.8	0.82	4.79	46.5	6.3						
	5.3	1.1	2.6	1400	31.4	28.0	0.89	4.99	48.4	6.3						
120	7.9	2.5	5.7	1050	31.5	25.0	0.79	4.45	46.7	7.1						
	7.9 10.5	2.5 4.7	5.7 10.8	1400 1050	32.8 32.3	28.3 25.3	0.86 0.78	4.64 4.29	48.6 46.9	7.1 7.5						
	10.5	4.7	10.8	1400	33.7	28.6	0.78	4.29	49.0	7.5 7.5						

Interpolation is permissible; extrapolation is not.

All entering air conditions are 80°F DB and 67°F WB in cooling, and 70°F DB in heating.

AHRI/SO certified conditions are 80.6°F DB and 66.2°F WB in cooling and 68°F DB in heating.

Table does not reflect fan or pump power corrections for AHRI/ISO conditions.

All performance is based upon the lower voltage of dual voltage rated units.

Performance stated is at the rated power supply; performance may vary as the power supply varies from the rated.

Operation below 40°F EWT requires optional insulated water/refrigerant circuit.

See performance correction tables for operating conditions other than those listed above.

See Performance Data Selection Notes for operating conditions other than those listed above.

Performance Data - TC H/V 048 (PSC Blower)

1,600 CFM Nominal (Rated) Airflow

Performance capacities shown in thousands of Btuh

EWT	2211	W	PD		(Cooling	g - EAT	80/67°	F		Heating - EAT 70°F					
°F	GPM	PSI	FT	Airflow CFM	тс	sc	Sens/Tot Ratio	kW	HR	EER	Airflow CFM	нс	kW	HE	LAT	СОР
20	12.0 12.0	6.8 6.8	15.6 15.6		0	peration	not reco	mmend	ed		1200 1600	30.9 31.6	3.54 3.18	19.6 20.9	94 88	2.56 2.92
	6.0	1.8	4.1	1200	56.4	34.4	0.61	2.25	64.0	25.1	1200	33.9	3.60	22.3	96	2.76
	6.0 9.0	1.8 3.4	4.1 7.8	1600 1200	58.8 57.5	39.0 34.6	0.66 0.60	2.34 2.11	66.7 64.6	25.1 27.2	1600 1200	34.7 34.4	3.24 3.63	23.8 22.7	90 97	3.14 2.78
30	9.0	3.4	7.8	1600	59.8	39.1	0.65	2.11	67.2	27.2	1600	35.3	3.26	24.2	90	3.17
	12.0	6.2	14.3	1200	57.9	34.5	0.60	2.05	64.8	28.2	1200	35.1	3.65	23.3	97	2.82
	12.0 6.0	6.2 1.6	14.3 3.7	1600 1200	60.3 54.8	39.1 34.0	0.65 0.62	2.14	67.5 63.2	28.2 22.2	1600 1200	36.0 37.9	3.27	24.9 25.8	91 99	3.22
	6.0	1.6	3.7	1600	57.1	38.5	0.67	2.57	65.8	22.2	1600	38.8	3.33	27.5	92	3.42
40	9.0 9.0	3.1 3.1	7.2 7.2	1200 1600	56.0 58.3	34.3 38.9	0.61 0.67	2.31 2.40	63.8 66.4	24.3 24.3	1200 1600	39.5 40.5	3.74 3.36	27.2 29.1	100 93	3.10 3.53
	12.0	5.8	13.4	1200	56.6	34.5	0.61	2.23	64.1	25.4	1200	40.7	3.76	28.3	101	3.18
	12.0 6.0	5.8 1.5	13.4 3.4	1600 1200	58.9 52.9	39.0	0.66	2.32	66.8 62.1	25.4 19.4	1600 1200	41.7	3.37	30.2	94	3.62
	6.0	1.5	3.4	1600	52.9 55.1	33.3 37.7	0.68	2.72	64.7	19.4	1600	43.6 44.7	3.42	33.0	96	3.36 3.83
50	9.0	3.0	6.8	1200	54.3	33.8	0.62	2.53	62.9	21.4	1200	44.9	3.85	32.1	105	3.42
	9.0 12.0	3.0 5.5	6.8 12.7	1600 1200	56.5 55.0	38.3 34.0	0.68 0.62	2.64 2.45	65.5 63.2	21.4 22.5	1600 1200	46.0 46.0	3.46 3.87	34.3 33.1	97 106	3.90 3.49
	12.0	5.5	12.7	1600	57.2	38.5	0.67	2.55	65.8	22.5	1600	47.1	3.48	35.3	97	3.98
	6.0 6.0	1.4 1.4	3.2 3.2	1200 1600	50.7 52.8	32.5 36.8	0.64 0.70	3.02 3.15	61.0 63.5	16.8 16.8	1200 1600	48.2 49.3	3.91 3.51	35.0 37.4	107 99	3.61 4.11
60	9.0	2.8	6.5	1200	52.3	33.1	0.63	2.81	61.8	18.6	1200	50.5	3.96	37.1	109	3.74
00	9.0 12.0	2.8 5.3	6.5 12.2	1600 1200	54.5 53.0	37.5 33.4	0.69 0.63	2.92 2.70	64.4 62.2	18.6 19.6	1600 1200	51.8 51.8	3.56 3.99	39.6 38.3	100 110	4.26 3.81
	12.0	5.3	12.2	1600	55.2	37.8	0.68	2.70	64.8	19.6	1600	53.1	3.58	40.9	101	4.34
	6.0	1.3	3.0	1200	48.3	31.5	0.65	3.38	59.9	14.3	1200	53.5	4.02	39.8	111	3.90
	6.0 9.0	1.3 2.7	3.0 6.3	1600 1200	50.3 50.0	35.7 32.2	0.71 0.64	3.52 3.13	62.3 60.7	14.3 16.0	1600 1200	54.8 56.2	3.61 4.08	42.4 42.2	102 113	4.44 4.03
70	9.0	2.7	6.3	1600	52.1	36.4	0.70	3.25	63.2	16.0	1600	57.5	3.67	45.0	103	4.60
	12.0 12.0	5.1 5.1	11.8 11.8	1200 1600	50.9 53.0	32.5 36.8	0.64 0.70	3.01 3.13	61.1 63.6	16.9 16.9	1200 1600	57.6 59.0	4.12 3.70	43.4 46.4	114 104	4.10 4.68
	6.0	1.3	2.9	1200	45.7	30.5	0.67	3.79	58.6	12.1	1200	58.8	4.14	44.5	115	4.16
	6.0 9.0	1.3 2.6	2.9 6.1	1600 1200	47.6 47.5	34.5 31.2	0.72 0.66	3.94 3.50	61.0 59.5	12.1 13.6	1600 1200	60.2 61.7	3.72 4.21	47.5 47.1	105 118	4.74 4.29
80	9.0	2.6	6.1	1600	49.5	35.3	0.00	3.64	61.9	13.6	1600	63.2	3.78	50.2	107	4.29
	12.0	4.9	11.4	1200	48.4	31.6	0.65	3.37	59.9	14.4	1200	63.3	4.25	48.4	119	4.36
	12.0 6.0	4.9 1.2	11.4 2.8	1600 1200	50.4 44.3	35.7 29.9	0.71	3.50 4.02	62.4 58.0	14.4 11.1	1600 1200	64.8 61.3	3.82 4.20	51.7 46.7	107 117	4.97 4.28
	6.0	1.2	2.8	1600	46.1	33.8	0.73	4.19	60.4	11.1	1600	62.8	3.78	49.9	106	4.88
85	9.0 9.0	2.6 2.6	6.0 6.0	1200 1600	46.2 48.1	30.6 34.7	0.66 0.72	3.72 3.87	58.8 61.3	12.5 12.5	1200 1600	64.3 65.9	4.28 3.84	49.4 52.7	120 108	4.40 5.02
	12.0	4.9	11.3	1200	47.1	31.0	0.66	3.57	59.3	13.2	1200	65.9	4.32	50.7	121	4.47
	12.0 6.0	4.9 1.2	11.3 2.8	1600 1200	49.0 42.9	35.1 29.3	0.72 0.68	3.72 4.26	61.7 57.4	13.2 10.1	1600 1200	67.5 63.9	3.88 4.27	54.1 49.0	109 119	5.09 4.39
	6.0	1.2	2.8	1600	44.6	33.2	0.74	4.43	59.8	10.1	1600	65.5	3.83	52.3	108	5.01
90	9.0	2.6	5.9	1200	44.8	30.1	0.67	3.93	58.2	11.4	1200	66.9	4.35	51.7	122	4.51
	9.0 12.0	2.6 4.8	5.9 11.1	1600 1200	46.6 45.7	34.1 30.5	0.73 0.67	4.10 3.78	60.6 58.6	11.4 12.1	1600 1200	68.6 68.5	3.91 4.39	55.1 53.0	110 123	5.14 4.57
	12.0	4.8	11.1	1600	47.6	34.5	0.72	3.94	61.1	12.1	1600	70.2	3.95	56.6	111	5.21
	6.0 6.0	1.2 1.2	2.7 2.7	1200 1600	39.8 41.4	28.2 31.9	0.71 0.77	4.79 4.99	56.2 58.5	8.3 8.3						
100	9.0	2.5	5.8	1200	41.8	28.9	0.69	4.43	57.0	9.4						
100	9.0 12.0	2.5 4.7	5.8 10.9	1600 1200	43.5 42.8	32.7 29.3	0.75 0.69	4.62 4.26	59.3 57.4	9.4 10.0						
	12.0	4.7	10.9	1600	44.6	33.2	0.74	4.44	59.7	10.0						
	6.0	1.1	2.6	1200	36.5	26.9	0.74	5.40	55.0	6.8						
440	6.0 9.0	1.1 2.4	2.6 5.6	1600 1200	38.0 38.6	30.4 27.7	0.80 0.72	5.62 5.00	57.3 55.8	6.8 7.7		Operation not recommended				
110	9.0	2.4	5.6	1600	40.2	31.4	0.78	5.21	58.0	7.7						
	12.0 12.0	4.6 4.6	10.6 10.6	1200 1600	39.7 41.3	28.1 31.8	0.71 0.77	4.81 5.01	56.1 58.5	8.2 8.2						
	6.0	1.1	2.5	1200	33.0	25.5	0.77	6.09	53.9	5.4						
	6.0	1.1	2.5	1600	34.4	28.9	0.84	6.34	56.1	5.4						
120	9.0 9.0	2.4 2.4	5.5 5.5	1200 1600	35.2 36.7	26.4 29.9	0.75 0.81	5.65 5.88	54.6 56.8	6.2 6.2						
	12.0	4.5	10.4	1200	36.3	26.8	0.74	5.44	55.0	6.7						
	12.0	4.5	10.4	1600	37.8	30.3	0.80	5.66	57.2	6.7						

Interpolation is permissible; extrapolation is not.

All entering air conditions are 80°F DB and 67°F WB in cooling, and 70°F DB in heating.

AHRI/SO certified conditions are 80.0°F DB and 66.2°F WB in cooling and 68°F DB in heating.

Table does not reflect fan or pump power corrections for AHRI/ISO conditions.

All performance is based upon the lower voltage of dual voltage rated units.

Performance stated is at the rated power supply, performance may vary as the power supply varies from the rated.

Operation below 40°F EWT is based upon a 15% methanol antifreeze solution.

Operation below 60°F EWT requires optional insulated water/refrigerant circuit.

See performance correction tables for operating conditions other than those listed above.

See Performance Data Selection Notes for operation in the shaded areas.

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Performance Data - TC H/V 048 (ECM Blower)

1500 CFM Nominal (Rated) Airflow

	CITATI			ited) A					Performance capacities shown in thousands of Btul							
EWT	GPM	WI		A luft			g - EAT 8			1	A last and			- EAT 70°F		
°F		PSI	FT	Airflow CFM	TC	SC	Sens/Tot Ratio	kW	HR	EER	Airflow CFM	НС	kW	HE	LAT	СОР
20	12.0 12.0	6.8 6.8	15.6 15.6		0	peratior	not recor	mmende	ed		1200 1500	31.4 31.5	3.45 3.09	19.6 20.9	92.0 87.0	2.7 3.0
	6.0	1.8	4.1	1200	56.4	34.4	0.61	2.16	63.8	26.1	1200	34.3	3.51	22.3	95.0	2.9
	6.0	1.8	4.1	1500	58.8	39.0	0.66	2.25	66.5	26.1	1500	34.6	3.15	23.8	89.0	3.2
30	9.0 9.0	3.4 3.4	7.8 7.8	1200 1500	57.5 59.8	34.6 39.1	0.60 0.65	2.02 2.11	64.4 67.0	28.4 28.3	1200 1500	34.8 35.0	3.54 3.17	22.7 24.2	96.0 90.0	2.9 3.2
	12.0	6.2	14.3	1200	57.9	34.5	0.60	1.96	64.6	29.5	1200	35.5	3.56	23.3	97.0	2.9
	12.0 6.0	1.6	14.3 3.7	1500 1200	60.3 54.8	39.1 34.0	0.65	2.05	67.3 62.9	29.4	1500 1200	35.8 38.1	3.18	24.9 25.8	90.0	3.3
	6.0	1.6	3.7	1500	57.1	38.5	0.62	2.36	65.6	23.0	1500	38.6	3.24	27.5	92.0	3.5
40	9.0	3.1	7.2	1200	56.0	34.3	0.61	2.22	63.6	25.2	1200	39.7	3.65	27.2	100.0	3.2
	9.0 12.0	3.1 5.8	7.2 13.4	1500 1200	58.3 56.6	38.9 34.5	0.67 0.61	2.31 2.14	66.2 63.9	25.2 26.4	1500 1200	40.3 40.8	3.27 3.67	29.1 28.3	93.0 101.0	3.6 3.3
	12.0	5.8	13.4	1500	58.9	39.0	0.66	2.23	66.5	26.4	1500	41.4	3.28	30.2	94.0	3.7
	6.0	1.5	3.4	1200	52.9	33.3	0.63	2.63	61.9	20.1	1200	43.7	3.72	31.0	103.0	3.4
	6.0 9.0	1.5 3.0	3.4 6.8	1500 1200	55.1 54.3	37.7 33.8	0.68 0.62	2.74 2.44	64.5 62.6	20.1 22.2	1500 1200	44.4 44.9	3.33 3.76	33.0 32.1	95.0 104.0	3.9 3.5
50	9.0	3.0	6.8	1500	56.5	38.3	0.68	2.55	65.2	22.1	1500	45.8	3.37	34.3	96.0	4.0
	12.0	5.5	12.7	1200	55.0	34.0	0.62	2.36	63.1	23.3	1200	46.0	3.78	33.1	105.0	3.6
	12.0 6.0	5.5 1.4	12.7 3.2	1500 1200	57.2 50.7	38.5 32.5	0.67	2.46	65.6 60.7	23.2 17.3	1500 1200	46.9 48.0	3.39	35.3 35.0	97.0	3.7
	6.0	1.4	3.2	1500	52.8	36.8	0.70	3.06	63.3	17.2	1500	49.1	3.42	37.4	98.0	4.2
60	9.0	2.8	6.5	1200	52.3	33.1	0.63	2.72	61.6	19.2	1200	50.3	3.87	37.1	108.0	3.8
	9.0 12.0	2.8 5.3	6.5 12.2	1500 1200	54.5 53.0	37.5 33.4	0.69 0.63	2.83 2.61	64.2 61.9	19.2 20.3	1500 1200	51.5 51.6	3.47 3.90	39.6 38.3	99.0 109.0	4.3 3.9
	12.0	5.3	12.2	1500	55.2	37.8	0.68	2.72	64.5	20.3	1500	52.8	3.49	40.9	100.0	4.4
	6.0 6.0	1.3 1.3	3.0 3.0	1200 1500	48.3 50.3	31.5 35.7	0.65 0.71	3.29 3.43	59.5 62.0	14.7 14.6	1200 1500	53.2 54.4	3.93 3.52	39.8 42.4	110.0 101.0	4.0 4.5
	9.0	2.7	6.3	1200	50.5	32.2	0.64	3.43	60.4	16.4	1200	55.8	3.99	42.4	112.0	4.5
70	9.0	2.7	6.3	1500	52.1	36.4	0.70	3.16	62.9	16.5	1500	57.2	3.58	45.0	102.0	4.7
	12.0 12.0	5.1 5.1	11.8 11.8	1200 1500	50.9 53.0	32.5 36.8	0.64 0.69	2.92 3.04	60.9 63.4	17.4 17.4	1200 1500	57.2 58.7	4.03 3.61	43.4 46.4	113.0 103.0	4.2 4.8
	6.0	1.3	2.9	1200	45.7	30.5	0.67	3.70	58.3	12.3	1200	58.3	4.05	44.5	114.0	4.2
	6.0	1.3	2.9	1500	47.6	34.5	0.72	3.85	60.8	12.3	1500	59.9	3.63	47.5	104.0	4.8
80	9.0 9.0	2.6 2.6	6.1 6.1	1200 1500	47.5 49.5	31.2 35.3	0.66 0.71	3.41 3.55	59.2 61.6	13.9 13.9	1200 1500	61.2 62.8	4.12 3.69	47.1 50.2	116.0 105.0	4.3 5.0
	12.0	4.9	11.4	1200	48.4	31.6	0.65	3.28	59.6	14.7	1200	62.6	4.16	48.4	117.0	4.4
	12.0	4.9	11.4	1500	50.4	35.7	0.71	3.41	62.1	14.8	1500	64.4	3.73	51.7	106.0	5.1
	6.0 6.0	1.2 1.2	2.8 2.8	1200 1500	44.3 46.1	29.9 33.8	0.67 0.73	3.93 4.10	57.7 60.1	11.3 11.2	1200 1500	60.7 62.5	4.11 3.69	46.7 49.9	116.0 105.0	4.3 5.0
85	9.0	2.6	6.0	1200	46.2	30.6	0.66	3.63	58.6	12.7	1200	63.7	4.19	49.4	118.0	4.5
00	9.0	2.6	6.0	1500	48.1	34.7	0.72	3.78	61.0	12.7	1500	65.5	3.75	52.7	107.0	5.1
	12.0 12.0	4.9 4.9	11.3 11.3	1200 1500	47.1 49.0	31.0 35.1	0.66 0.72	3.48 3.63	59.0 61.4	13.5 13.5	1200 1500	65.1 67.0	4.23 3.79	50.7 54.1	119.0 108.0	4.5 5.2
	6.0	1.2	2.8	1200	42.9	29.3	0.68	4.17	57.1	10.3	1200	63.3	4.18	49.0	117.0	4.4
	6.0	1.2	2.8	1500	44.6	33.2	0.74	4.34	59.4	10.3	1500	65.1	3.74	52.3	107.0	5.1
90	9.0 9.0	2.6 2.6	5.9 5.9	1200 1500	44.8 46.6	30.1 34.1	0.67 0.73	3.84 4.01	57.9 60.3	11.7 11.6	1200 1500	66.3 68.1	4.26 3.82	51.7 55.1	120.0 108.0	4.6 5.2
	12.0	4.8	11.1	1200	45.7	30.5	0.67	3.69	58.3	12.4	1200	67.7	4.30	53.0	121.0	4.6
	12.0 6.0	4.8 1.2	11.1 2.7	1500 1200	47.6 39.8	34.5 28.2	0.72 0.71	3.85	60.8	12.3 8.5	1500	69.8	3.86	56.6	109.0	5.3
	6.0	1.2	2.7	1500	39.8 41.4	28.2 31.9	0.71	4.70 4.90	55.9 58.1	8.5 8.4						
100	9.0	2.5	5.8	1200	41.8	28.9	0.69	4.34	56.6	9.6						
100	9.0 12.0	2.5	5.8	1500	43.5	32.7	0.75	4.53	59.0	9.6						
	12.0	4.7 4.7	10.9 10.9	1200 1500	42.8 44.6	29.3 33.2	0.68 0.74	4.17 4.35	57.0 59.5	10.3 10.2						
	6.0	1.1	2.6	1200	36.5	26.9	0.74	5.31	54.6	6.9						
	6.0 9.0	1.1 2.4	2.6 5.6	1500 1200	38.0 38.6	30.4 27.7	0.80 0.72	5.53 4.91	56.9 55.4	6.9 7.9						
110	9.0	2.4	5.6	1500	40.2	31.4	0.72	5.12	55.4 57.7	7.9		Opera	tion not	recomm	nended	
	12.0	4.6	10.6	1200	39.7	28.1	0.71	4.72	55.8	8.4						
	12.0 6.0	4.6 1.1	10.6 2.5	1500 1200	41.3 33.0	31.8 25.5	0.77	4.92 6.00	58.1 53.5	8.4 5.5						
	6.0	1.1	2.5	1500	34.4	28.9	0.77	6.25	55.7	5.5						
120	9.0	2.4	5.5	1200	35.2	26.4	0.75	5.56	54.2	6.3						
	9.0 12.0	2.4 4.5	5.5 10.4	1500 1200	36.7 36.3	29.9 26.8	0.81 0.74	5.79 5.35	56.5 54.6	6.3 6.8						
	12.0	4.5	10.4	1500	37.8	30.3	0.80	5.57	56.8	6.8						

Interpolation is permissible; extrapolation is not.

All entering air conditions are 80°F DB and 67°F WB in cooling, and 70°F DB in heating.

AHRI/ISO certified conditions are 80.6°F DB and 66.2°F WB in cooling and 68°F DB in heating.

Table does not reflect fan or pump power corrections for AHRI/ISO conditions.

All performance is based upon the lower voltage of dual voltage rated units.

Performance stated is at the rated power supply; performance may vary as the power supply varies from the rated.

Operation below 40°F EWT is based upon a 15% methanol antifreeze solution.

Operation below 60°F EWT requires optional insulated water/ferigreant circuit.

See performance correction tables for operating conditions other than those listed above.

See Performance Data Selection Notes for operation in the shaded areas.

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Performance Data - TC H/V 060 (PSC Blower)

1950 CFM Nominal (Rated) Airflow

Performance capacities shown in thousands of Btuh

EWT		W	PD		(Cooling	g - EAT	80/67°	F		Heating - EAT 70°F					ds of Blui
°F	GPM	PSI	FT	Airflow CFM	тс	sc	Sens/Tot Ratio	kW	HR	EER	Airflow CFM	НС	kW	HE	LAT	СОР
20	15.0 15.0	14.0	32.2		0	peration	not reco	mmend	ed		1460	41.6	4.98	25.8	96	2.45
	7.5	14.0 3.4	32.2 7.9	1460	68.2	41.6	0.61	3.00	78.3	22.8	1950 1460	42.6 45.5	4.48 5.08	27.5 29.2	90	2.79 2.62
	7.5	3.4	7.9	1950	71.0	47.0	0.66	3.12	81.6	22.8	1950	46.6	4.56	31.1	92	2.99
30	11.3 11.3	6.8 6.8	15.8 15.8	1460 1950	69.0 71.8	41.5 47.0	0.60 0.65	2.87 2.99	78.7 82.0	24.0 24.0	1460 1950	47.4 48.6	5.13 4.61	30.9 33.0	100 93	2.71 3.09
	15.0	12.6	29.2	1460	69.3	41.3	0.60	2.82	78.8	24.6	1460	48.5	5.16	31.8	101	2.75
	15.0	12.6	29.2	1950	72.1	46.8	0.65	2.94	82.1	24.6	1950	49.7	4.64	34.0	94	3.14
	7.5 7.5	3.1 3.1	7.0 7.0	1460 1950	66.6 69.3	41.1 46.5	0.62 0.67	3.21 3.34	77.4 80.6	20.8 20.8	1460 1950	52.2 53.5	5.27 4.73	35.1 37.5	103 95	2.91 3.31
40	11.3	6.3	14.6	1460	67.8	41.5	0.61	3.05	78.1	22.2	1460	54.8	5.34	37.3	105	3.01
70	11.3 15.0	6.3 11.8	14.6 27.2	1950 1460	70.6 68.3	47.0 41.6	0.67 0.61	3.18 2.98	81.3 78.4	22.2 22.9	1950 1460	56.1 56.2	4.80 5.38	39.8 38.5	97 106	3.43 3.06
	15.0	11.8	27.2	1950	71.1	47.0	0.66	3.10	81.6	22.9	1950	57.5	4.83	41.1	97	3.49
	7.5	2.8	6.4	1460	64.7	40.3	0.62	3.47	76.4	18.7	1460	59.5	5.48	41.4	108	3.18
	7.5 11.3	2.8 5.9	6.4 13.7	1950 1460	67.3 66.0	45.6 40.9	0.68 0.62	3.61 3.28	79.6 77.1	18.7 20.1	1950 1460	60.9 62.6	4.92 5.57	44.2 44.1	99 110	3.63 3.29
50	11.3	5.9	13.7	1950	68.7	46.3	0.67	3.41	80.3	20.1	1950	64.1	5.01	47.1	100	3.75
	15.0	11.1	25.7	1460	66.7	41.2	0.62	3.19	77.5	20.9	1460	64.3	5.63	45.6	111	3.35
	15.0 7.5	11.1 2.6	25.7 6.0	1950 1460	69.4 62.4	46.6 39.3	0.67 0.63	3.32 3.78	80.7 75.3	20.9 16.5	1950 1460	65.9 66.9	5.05 5.70	48.7 47.8	101 112	3.82 3.44
	7.5	2.6	6.0	1950	65.0	44.5	0.69	3.93	78.4	16.5	1950	68.5	5.12	51.0	103	3.92
60	11.3 11.3	5.6 5.6	13.0 13.0	1460 1950	63.7 66.3	39.9 45.1	0.63 0.68	3.56 3.70	75.8 78.9	17.9 17.9	1460 1950	70.4 72.1	5.82 5.22	50.9 54.4	115 104	3.55 4.05
	15.0	10.7	24.6	1460	64.2	40.0	0.62	3.45	75.9	18.6	1460	72.4	5.88	52.6	116	3.61
	15.0	10.7	24.6	1950	66.8	45.3	0.68	3.59	79.0	18.6	1950	74.1	5.28	56.2	105	4.12
	7.5 7.5	2.4 2.4	5.6 5.6	1460 1950	59.6 62.0	38.0 43.0	0.64 0.69	4.15 4.32	73.7 76.7	14.3 14.3	1460 1950	74.2 75.9	5.93 5.33	54.1 57.8	117 106	3.66 4.18
70	11.3	5.4	12.5	1460	61.1	38.6	0.63	3.89	74.3	15.7	1460	78.0	6.05	57.5	119	3.78
'	11.3 15.0	5.4 10.3	12.5 23.7	1950 1460	63.6 61.6	43.7 38.8	0.69 0.63	4.05 3.77	77.4 74.4	15.7 16.3	1950 1460	79.9 80.1	5.44 6.12	61.4 59.2	108 121	4.31 3.84
	15.0	10.3	23.7	1950	64.2	43.9	0.68	3.92	77.5	16.3	1950	82.0	5.50	63.2	109	4.37
	7.5	2.3	5.4	1460	56.4	36.7	0.65	4.59	72.1	12.3	1460	81.1	6.15	60.1	121	3.86
00	7.5 11.3	2.3 5.2	5.4 12.0	1950 1460	58.8 58.1	41.5 37.3	0.71 0.64	4.78 4.29	75.1 72.7	12.3 13.5	1950 1460	83.0 84.9	5.52 6.27	64.2 63.4	109 124	4.41 3.97
80	11.3	5.2	12.0	1950	60.4	42.2	0.70	4.47	75.7	13.5	1950	87.0	5.63	67.7	111	4.52
	15.0 15.0	9.9 9.9	22.9 22.9	1460 1950	58.7 61.1	37.5 42.4	0.64 0.69	4.15 4.32	72.8 75.8	14.1 14.1	1460 1950	86.9 89.0	6.33 5.69	65.1 69.5	125 112	4.02 4.58
	7.5	2.3	5.2	1460	54.8	36.1	0.66	4.84	71.3	11.4	1460	84.1	6.25	62.8	123	3.95
	7.5	2.3 5.1	5.2 11.8	1950 1460	57.0	40.8	0.72	5.04 4.52	74.2 71.9	11.4	1950	86.2 87.8	5.6	67.0 65.9	111 126	4.50
85	11.3 11.3	5.1	11.8	1950	56.4 58.7	36.6 41.4	0.65 0.70	4.52 4.71	71.9	12.5 12.5	1460 1950	89.9	6.4 5.7	70.4	113	4.04 4.61
	15.0	9.8	22.6	1460	57.1	36.8	0.64	4.37	72.0	13.1	1460	89.6	6.4	67.5	127	4.09
	15.0 7.5	9.8 2.2	22.6 5.1	1950 1460	59.5 53.1	41.6 35.4	0.70 0.67	4.55 5.09	75.0 70.5	13.1 10.4	1950 1460	91.8 87.2	5.8 6.35	72.0 65.4	114 125	4.66 4.03
	7.5	2.2	5.1	1950	55.3	40.1	0.73	5.30	73.4	10.4	1950	89.3	5.70	69.9	112	4.59
90	11.3	5.0 5.0	11.6 11.6	1460	54.8	35.9	0.66	4.76	71.0	11.5	1460	90.7	6.45	68.4	128	4.12
	11.3 15.0	9.6	22.2	1950 1460	57.1 55.5	40.7 36.1	0.71 0.65	4.95 4.60	74.0 71.2	11.5 12.1	1950 1460	92.9 92.3	5.80 6.50	73.1 69.8	114 129	4.70 4.16
	15.0	9.6	22.2	1950	57.8	40.9	0.71	4.78	74.1	12.1	1950	94.5	5.84	74.5	115	4.74
	7.5 7.5	2.1 2.1	4.9 4.9	1460 1950	49.6 51.7	34.3 38.9	0.69 0.75	5.67 5.90	69.0 71.9	8.8 8.8						
100	11.3	4.9	11.3	1460	51.4	34.7	0.68	5.29	69.5	9.7						
100	11.3	4.9	11.3	1950	53.5	39.3	0.73	5.51	72.3	9.7						
	15.0 15.0	9.4 9.4	21.7 21.7	1460 1950	52.1 54.2	34.8 39.4	0.67 0.73	5.11 5.32	69.6 72.4	10.2 10.2						
	7.5	2.0	4.7	1460	46.6	33.8	0.73	6.33	68.2	7.4						
445	7.5 11.3	2.0 4.8	4.7 11.0	1950 1460	48.5 47.8	38.2 33.6	0.79 0.70	6.59 5.91	71.0 68.0	7.4 8.1						
110	11.3	4.8	11.0	1950	49.8	38.1	0.76	6.15	70.8	8.1		Operation not recommended				
	15.0	9.2	21.2	1460	48.6	33.7	0.69	5.71	68.2	8.5						
	15.0 7.5	9.2 2.0	21.2 4.6	1950 1460	50.6 43.0	38.2 33.1	0.75 0.77	5.94 7.07	71.0 67.2	8.5 6.1						
	7.5	2.0	4.6	1950	44.7	37.5	0.84	7.36	70.0	6.1						
120	11.3 11.3	4.7 4.7	10.7 10.7	1460 1950	44.2 46.0	32.8 37.1	0.74 0.81	6.61 6.88	66.8 69.6	6.7 6.7						
	15.0	9.0	20.7	1460	44.9	32.7	0.73	6.38	66.8	7.0						
	15.0	9.0	20.7	1950	46.8	37.0	0.79	6.64	69.5	7.0						

Interpolation is permissible; extrapolation is not.

All entering air conditions are 80°F DB and 67°F WB in cooling, and 70°F DB in heating.

AHRI/ISO certified conditions are 80.6°F DB and 66.2°F WB in cooling and 68°F DB in heating.

Table does not reflect fan or pump power corrections for AHRI/ISO conditions.

All performance is based upon the lower voltage of dual voltage rated units.

Performance stated is at the rated power supply; performance may vary as the power supply varies from the rated.

Operation below 40°F EWT is based upon a 15% methanol antifreeze solution.

Operation below 60°F EWT requires optional insulated water/refrigerant circuit.

See performance correction tables for operating conditions other than those listed above.

See Performance Data Selection Notes for operation in the shaded areas.

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Performance Data - TC H/V 060 (ECM Blower)

1950 CFM Nominal (Rated) Airflow

Performance capacities shown in thousands of Btuh

EWT		WI	PD			Cooling	g - EAT 8	30/67°F			Heating -			EAT 70°F		
°F	GPM	PSI	FT	Airflow CFM	тс	sc	Sens/Tot Ratio	kW	HR	EER	Airflow CFM	нс	kW	HE	LAT	СОР
20	15.0 15.0	14.0 14.0	32.2 32.2		С	peration	not reco	mmende	ed		1460 1950	42.0 42.0	4.7 4.2	25.8 27.5	92.0 87.0	2.6 2.9
	7.5	3.4	7.9	1460	68.2	41.6	0.61	2.8	77.6	24.8	1460	45.7	4.8	29.2	95.0	2.8
	7.5 11.3	3.4 6.8	7.9 15.8	1950 1460	71.0 69.0	47.0 41.5	0.66 0.60	2.9 2.6	80.8 78.0	24.7 26.3	1950 1460	45.8 47.6	4.3 4.9	31.1 30.9	89.0 96.0	3.1 2.9
30	11.3	6.8	15.8	1950	71.8	47.0	0.65	2.7	81.2	26.2	1950	47.0	4.4	33.0	90.0	3.2
	15.0	12.6	29.2	1460	69.3	41.3	0.60	2.6	78.1	26.9	1460	48.6	4.9	31.8	97.0	2.9
	15.0	12.6	29.2	1950	72.1	46.8	0.65	2.7	81.3	26.7	1950	49.0	4.4	34.0	90.0	3.3
	7.5 7.5	3.1 3.1	7.0 7.0	1460 1950	66.6 69.3	41.1 46.5	0.62 0.67	3.0 3.1	76.7 79.9	22.5 22.4	1460 1950	52.2 52.8	5.0 4.5	35.1 37.5	99.0 92.0	3.0 3.5
40	11.3	6.3	14.6	1460	67.8	41.5	0.61	2.8	77.4	24.2	1460	54.7	5.1	37.3	100.0	3.1
40	11.3	6.3	14.6	1950	70.6	47.0	0.67	2.9	80.6	24.1	1950	55.3	4.6	39.8	93.0	3.6
	15.0 15.0	11.8 11.8	27.2 27.2	1460 1950	68.3 71.1	41.6 47.0	0.61 0.66	2.7 2.9	77.6 80.8	25.0 24.9	1460 1950	56.0 56.7	5.1 4.6	38.5 41.1	101.0 94.0	3.2 3.6
	7.5	2.8	6.4	1460	64.7	40.3	0.62	3.2	75.7	20.1	1460	59.3	5.2	41.4	103.0	3.3
	7.5	2.8	6.4	1950	67.3	45.6	0.68	3.4	78.8	20.0	1950	60.2	4.7	44.2	95.0	3.8
50	11.3	5.9	13.7	1460	66.0	40.9	0.62	3.0	76.4	21.7	1460	62.3	5.3	44.1	104.0	3.4
	11.3 15.0	5.9 11.1	13.7 25.7	1950 1460	68.7 66.7	46.3 41.2	0.67 0.62	3.2 2.9	79.5 76.7	21.7 22.6	1950 1460	63.4 64.0	4.8 5.4	47.1 45.6	96.0 105.0	3.9 3.5
	15.0	11.1	25.7	1950	69.4	46.6	0.67	3.1	79.9	22.6	1950	65.1	4.8	48.7	97.0	4.0
	7.5	2.6	6.0	1460	62.4	39.3	0.63	3.5	74.5	17.7	1460	66.4	5.5	47.8	106.0	3.6
	7.5 11.3	2.6 5.6	6.0 13.0	1950 1460	65.0 63.7	44.5 39.9	0.68 0.63	3.7 3.3	77.6 75.0	17.6 19.2	1950 1460	67.6 69.9	4.9 5.6	51.0 50.9	98.0 108.0	4.1 3.7
60	11.3	5.6	13.0	1950	66.3	45.1	0.68	3.5	78.1	19.2	1950	71.4	5.0	54.4	99.0	4.2
	15.0	10.7	24.6	1460	64.2	40.0	0.62	3.2	75.1	20.0	1460	71.8	5.6	52.6	109.0	3.7
	15.0	10.7	24.6	1950	66.8	45.3	0.68	3.3	78.2	20.0	1950	73.4	5.0	56.2	100.0	4.3
	7.5 7.5	2.4 2.4	5.6 5.6	1460 1950	59.6 62.0	38.0 43.0	0.64 0.69	3.9 4.1	72.9 75.9	15.3 15.2	1460 1950	73.5 75.2	5.7 5.1	54.1 57.8	110.0 101.0	3.8 4.3
70	11.3	5.4	12.5	1460	61.1	38.6	0.63	3.6	73.5	16.8	1460	77.3	5.8	57.5	112.0	3.9
70	11.3	5.4	12.5	1950	63.6	43.7	0.69	3.8	76.6	16.7	1950	79.1	5.2	61.4	102.0	4.5
	15.0 15.0	10.3 10.3	23.7 23.7	1460 1950	61.6 64.2	38.8 43.9	0.63 0.68	3.5 3.7	73.6 76.7	17.5 17.5	1460 1950	79.2 81.1	5.9 5.3	59.2 63.2	113.0 103.0	4.0 4.5
	7.5	2.3	5.4	1460	56.4	36.7	0.65	4.3	71.2	13.0	1460	80.2	5.9	60.1	114.0	4.0
	7.5	2.3	5.4	1950	58.8	41.5	0.71	4.5	74.3	13.0	1950	82.2	5.3	64.2	104.0	4.6
80	11.3	5.2	12.0	1460	58.1	37.3	0.64	4.0	71.9	14.4	1460	84.0	6.0	63.4	116.0	4.1
	11.3 15.0	5.2 9.9	12.0 22.9	1950 1460	60.4 58.7	42.2 37.5	0.70 0.64	4.2 3.9	74.8 72.0	14.3 15.0	1950 1460	86.1 85.9	5.4 6.1	67.7 65.1	105.0 117.0	4.7 4.1
	15.0	9.9	22.9	1950	61.1	42.4	0.69	4.1	75.0	15.0	1950	88.1	5.4	69.5	106.0	4.7
	7.5	2.3	5.2	1460	54.8	36.1	0.66	4.6	70.5	11.9	1460	83.3	6.0	62.8	116.0	4.1
	7.5	2.3	5.2	1950	57.0	40.8	0.72	4.8	73.4	11.9	1950	85.3	5.4	67.0	105.0	4.7
85	11.3 11.3	5.1 5.1	11.8 11.8	1460 1950	56.4 58.7	36.6 41.4	0.65 0.71	4.3 4.5	71.0 73.9	13.2 13.1	1460 1950	86.9 89.0	6.2 5.5	65.9 70.4	118.0 107.0	4.1 4.8
	15.0	9.8	22.6	1460	57.1	36.8	0.64	4.1	71.2	13.8	1460	88.5	6.2	67.5	119.0	4.2
	15.0	9.8	22.6	1950	59.5	41.6	0.70	4.3	74.2	13.8	1950	91.0	5.6	72.0	108.0	4.8
	7.5 7.5	2.2 2.2	5.1 5.1	1460 1950	53.1 55.3	35.4 40.1	0.67 0.73	4.8 5.1	69.6 72.5	11.0 10.9	1460 1950	86.2 88.5	6.1 5.5	65.4 69.9	117.0 107.0	4.1 4.8
	11.3	5.0	11.6	1460	54.8	35.9	0.66	4.5	70.2	12.1	1460	89.6	6.2	68.4	120.0	4.2
90	11.3	5.0	11.6	1950	57.1	40.7	0.71	4.7	73.2	12.1	1950	92.1	5.6	73.1	108.0	4.9
	15.0 15.0	9.6 9.6	22.2 22.2	1460 1950	55.5 57.8	36.1 40.9	0.65 0.71	4.4 4.5	70.4 73.3	12.7 12.7	1460 1950	91.1 93.6	6.3 5.6	69.8 74.5	121.0 109.0	4.3 4.9
	7.5	2.1	4.9	1460	49.6	34.3	0.69	5.4	68.1	9.1	1930	93.0	5.6	74.5	109.0	4.9
	7.5	2.1	4.9	1950	51.7	38.9	0.75	5.7	71.0	9.1						
100	11.3	4.9	11.3	1460	51.4	34.7	0.68	5.0	68.6	10.2						
100	11.3 15.0	4.9 9.4	11.3 21.7	1950 1460	53.5 52.1	39.3 34.8	0.73 0.67	5.3 4.9	71.5 68.7	10.2 10.7						
	15.0	9.4	21.7	1950	54.2	39.4	0.73	5.1	71.5	10.7						
	7.5	2.0	4.7	1460	46.6	33.8	0.73	6.1	67.4	7.7						
	7.5	2.0	4.7	1950	48.5	38.2	0.79	6.3	70.2	7.6						
110	11.3 11.3	4.8 4.8	11.0 11.0	1460 1950	47.8 49.8	33.6 38.1	0.70 0.77	5.7 5.9	67.1 69.9	8.4 8.4		Opera	tion not	recomm	ended	
	15.0	9.2	21.2	1460	48.6	33.7	0.69	5.5	67.2	8.9						
	15.0	9.2	21.2	1950	50.6	38.2	0.75	5.7	70.0	8.9						
	7.5 7.5	2.0 2.0	4.6 4.6	1460 1950	43.0 44.7	33.1 37.5	0.77 0.84	6.8 7.1	66.3 69.0	6.3 6.3						
400	11.3	2.0 4.7	4.6 10.7	1950	44.7 44.2	37.5 32.8	0.84	7.1 6.4	65.9	6.9						
120	11.3	4.7	10.7	1950	46.0	37.1	0.81	6.6	68.6	6.9						
	15.0	9.0	20.7	1460	44.9	32.7	0.73	6.1	65.8	7.3						
	15.0	9.0	20.7	1950	46.8	37.0	0.79	6.4	68.6	7.3						

Interpolation is permissible; extrapolation is not.

All entering air conditions are 80°F DB and 67°F WB in cooling, and 70°F DB in heating.

AHR/ISO certified conditions are 80.6°F DB and 66.2°F WB in cooling and 68°F DB in heating.

Table does not reflect fan or pump power corrections for AHR/ISO conditions.

All performance is based upon the lower voltage of dual voltage rated units.

Performance stated is at the rated power supply; performance may vary as the power supply varies from the rated.

Operation below 40°F EWT is based upon a 15% methanol antifreeze solution.

Operation below 60°F EWT requires optional insulated water/refrigerant circuit.

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Performance Correction Tables for Units

Entering Air Correction Table - Cooling

	Cooling Corrections											
Ent Air	Total Clg			Sens Clo	g Cap Multipl	liers - Enterir	ng DB ⁰F			Power	Heat of	
WB ºF	Сар	65	70	75	80	80.6	85	90	95	, rower	Rejection	
50	0.7800	0.9778	*	*	*	*	*	*	*	0.9972	0.8243	
55	0.8327	0.8966	1.0556	*	*	*	*	*	*	0.9980	0.8667	
60	0.8954	0.7505	0.9184	1.1056	*	*	*	*	*	0.9988	0.9169	
65	0.9681		0.6778	0.8992	1.1213	1.1480	1.3439	*	*	0.9996	0.9747	
66.2	0.9871		0.6103	0.8420	1.0698	1.0969	1.2938	*	*	0.9999	0.9897	
67	1.0000		0.5507	0.7782	1.0000	1.0262	1.2161	1.4266	*	1.0000	1.0000	
70	1.0508			0.6408	0.8856	0.9135	1.1082	1.3087	1.4869	1.0005	1.0403	
75	1.1435	(Operation not rec	ommended	0.6085	0.6403	0.8566	1.0663	1.2376	1.0014	1.1135	

Entering Air Correction Table - Heating

	Heating (Corrections	
Ent Air DB °F	Heating Capacity	Heating Power	Heat of Extraction
45	1.0507	0.7802	1.1314
50	1.0327	0.8227	1.0953
55	1.0195	0.8683	1.0646
60	1.0102	0.9168	1.0380
65	1.0033	0.9680	1.0139
68	1.0000	1.0000	1.0000
70	0.9979	1.0218	0.9908
75	0.9928	1.0781	0.9673
80	0.9866	1.1367	0.9419

Air Flow Correction Table

Airflow		Heating		Cooling							
% of Rated	Heating Capacity	Heating Power	Heat of Extraction	Total Capacity	Sensible Capacity	Sens/Total Ratio	Power	Heat of Rejection			
75	0.9764	1.1134	0.9368	0.9605	0.8837	0.9200	0.9606	0.9605			
81.25	0.9829	1.0789	0.9551	0.9730	0.9130	0.9384	0.9691	0.9722			
87.5	0.9889	1.0484	0.9717	0.9837	0.9393	0.9548	0.9784	0.9826			
93.75	0.9947	1.0222	0.9867	0.9927	0.9668	0.9739	0.9887	0.9919			
100	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000			
106.25	1.0050	0.9820	1.0116	1.0055	1.0434	1.0377	1.0122	1.0069			
112.5	1.0096	0.9681	1.0216	1.0093	1.1016	1.0915	1.0253	1.0126			
118.75	1.0138	0.9583	1.0299	1.0113	1.1790	1.1658	1.0394	1.0171			
125	1.0177	0.9527	1.0365	1.0116	1.2798	1.2652	1.0544	1.0204			

^{*} Sensible capacity equals total capacity.

AHRI/ISO/ASHRAE 13256-1 uses entering air conditions of Cooling - 80.6°F DB/ 66.2°F WB, and Heating -68°F DB/ 59°F WB entering air temperature.

Antifreeze Correction Table

			Cooling		Hea	ting	WPD
Antifreeze Type	Antifreeze %		EWT 90°F		EWT	30°F	Corr. Fct.
	,,	Total Cap	Sens Cap	Power	Htg Cap	Power	EWT 30°F
Water	0	1.000	1.000	1.000	1.000	1.000	1.000
	5	0.995	0.995	1.003	0.989	0.997	1.070
Propylene Glycol	15	0.986	0.986	1.009	0.968	0.990	1.210
	25	0.978	0.978	1.014	0.947	0.983	1.360
	5	0.997	0.997	1.002	0.989	0.997	1.070
Methanol	15	0.990	0.990	1.007	0.968	0.990	1.160
	25	0.982	0.982	1.012	0.949	0.984	1.220
	5	0.998	0.998	1.002	0.981	0.994	1.140
Ethanol	15	0.994	0.994	1.005	0.944	0.983	1.300
	25	0.986	0.986	1.009	0.917	0.974	1.360
	5	0.998	0.998	1.002	0.993	0.998	1.040
Ethylene Glycol	15	0.994	0.994	1.004	0.980	0.994	1.120
	25	0.988	0.988	1.008	0.966	0.990	1.200

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Blower Performance Data – Standard Unit – PSC

Airflow in CFM with wet coil and clean air filter

Madel	Fan	Rated	Min				Air	flow (cfm) a	t Exte	rnal S	tatic F	ressu	ıre (in	. wg)				
Model	Speed	Airflow	CFM	0.00	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	0.60	0.70	0.80	0.90	1.00
	HI					310	300	290	280	270	250	230	210	180	Op	eration	not rec	ommen	ded
TCH/V 006	MED	220	150			260	250	240	230	210	200	190	150		. 0	0.4			
000	LOW					210	200	190	180	160	150								
TO110/	HI					410	400	380	360	350	330	320	300	280					
TCH/V 009	MED	325	225			390	370	360	340	320	310	290	280	260					
	LOW					340	330	322	310	300	280	260	250						
TCH/V	HI					470	460	450	440	430	420	400	390	380	320				
012	MED	400	300			420	410	400	390	380	370	360	350	340					
	LOW					360	360	350	340	320	320	310	300						
TCH/V	HI					745	725	706	696	686	666	637	588	539	451				
015	MED	525	375	686	676	666	657	647	637	617	608	588	549	510					
	LOW			608	598	588	578	568	559	549	529	510	480	451					
TOUR	HI					745	725	706	696	686	666	637	588	539	451				
TCH/V 018	MED	600	450	686	676	666	657	647	637	617	608	588	549	510					
	LOW			608	598	588	578	568	559	549	529	510	480	451					
TCH/V	HI											950	922	884	827	732	656		
024	MED	800	600	960	950	941	931	912	893	874	855	836	817	789	732	665			
	LOW			779	770	760	751	741	732	722	713	694	684	665	618				
TCH/V	Н									1102	1074	1045	1017	979	903	798			
030	MED	1000	750	1188	1169	1140	1121	1093	1064	1036	1017	988	960	922	846				
	LOW			1064	1045	1017	998	979	960	931	912	884	855	827	751				
TCH/V	HI			1474	1455	1436	1416	1387	1358	1329	1310	1280	1232	1174	1077	931			
036	MED	1200	900	1174	1164	1106	1106	1096	1096	1086	1077	1067	1038	1009	912				
	LOW			980	980	970	970	960	960	951	951	941	922	902					
TCV	HI			1328	1300	1269	1235	1198	1157	1114	1037	1018	965						
041	MED	1125	845	1181	1164	1142	1118	1090	1058	1023	985								
	LOW			1031	1021	1008	991	971	947										
TCH/V	HI			1558	1530	1501	1473	1444	1416	1378	1340	1302	1264	1226	1131				
042	MED	1350	1050	1416	1397	1368	1349	1321	1302	1273	1245	1207	1169	1131	1064				
	LOW			1083	1083	1074	1074	1064	1055					ı					
TCH/V	HI							1881	1853	1815	1767	1710	1653	1596	1416	1216	1216		
048	MED	1600	1200	1843	1824	1805	1786	1767	1729	1682	1653	1625	1577	1520	1340				
	LOW			1682	1663	1644	1625	1606	1587	1568	1530	1492	1435	1378	1264				
TCH/V	HI			2195	2195	2185	2176	2156	2117	2078	2048	2019	1999	1970	1921	1842	1754	1627	
060	MED	2000	1500	2009	2009	1999	1980	1950	1931	1901	1882	1852	1823	1793	1744	1676	1588		
	LOW			1813	1813	1803	1793	1774	1764	1744	1725	1695	1666	1637	1568				

Black areas denote ESP where operation is not recommended.

Units factory shipped on medium speed. Other speeds require field selection.

All airflow is rated and shown above at the lower voltage if unit is dual voltage rated, e.g. 208V for 208-230V units.

Only two speed fan (H & M) available on 575V units.

Performance stated is at the rated power supply, performance may vary as the power supply varies from the rated.

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Blower Performance Data – High Static – PSC

	Fan	Rated	Min					Airflo	w (cfm) at Ext	ernal St	atic Pre	essure	(in. wg)				
Model	Speed	Airflow	CFM	0.00	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	0.60	0.70	0.80	0.90	1.00
	HS HI						774	764	755	745	735	715	696	676	637	519			
TCH/V 015	HS MED	525	375	735	725	706	696	686	676	657	657	647	637	617	588	480			
0.0	HS LOW			657	647	627	617	608	598	588	578	568	568	559	519				
	HS HI						774	764	755	745	735	715	696	676	637	519			
TCH/V 018	HS MED	600	450	735	725	706	696	686	676	657	657	647	637	617	588	480			
0.0	HS LOW			657	647	627	617	608	598	588	578	568	568	559	519				
	HS HI			(Operation	not reco	ommeno	ded						979	903	798	665		
TCH/V 024	HS MED	800	600	,	5 po. ao							988	960	922	846	713			
, J.	HS LOW							979	960	931	912	884	855	827	751	675			
	HS HI													1102	988	874	760		
TCH/V 030	HS MED	1000	750									1074	1026	979	884	779			
	HS LOW			998	988	979	960	941	931	912	893	865	836	798					
	HS HI											1484	1455	1426	1358	1251	1135	931	
TCH/V 036	HS MED	1200	900	1319	1310	1300	1290	1280	1271	1261	1242	1222	1213	1193	1116	1038			
	HS LOW			999	989	980	980	970	970	960	951	931	922	902					
	HS HI							1473	1463	1444	1425	1397	1387	1378	1311	1178			
TCH/V 042	HS MED	1350	1050	1321	1311	1302	1292	1283	1273	1254	1245	1235	1216	1188	1121				
042	HS LOW																		
	HS HI											1957	1938	1910	1862	1786	1701	1577	1435
TCH/V 048	HS MED	1600	1200	1948	1948	1938	1919	1891	1872	1843	1824	1796	1767	1739	1691	1625	1539	1416	1254
040	HS LOW			1758	1758	1748	1739	1720	1710	1691	1672	1644	1615	1587	1520	1435	1311		
	HS HI			2352	2352	2342	2332	2323	2313	2293	2274	2254	2225	2195	2156	2087	2019	1940	1852
TCH/V 060	HS MED	2000	1500	2117	2117	2107	2107	2097	2068	2038	2019	1999	1989	1980	1940	1891	1842	1460	1715
	HS LOW			1891	1891	1882	1882	1872	1862	1852	1852	1842	1833	1813	1793	1764	1715	1666	1588

Black areas denote ESP where operation is not recommended.

Units factory shipped on medium speed. Other speeds require field selection.

All airflow is rated and shown above at the lower voltage if unit is dual voltage rated, e.g. 208V for 208-230V units.

Only two speed fan (H & M) available on 575V units.

Performance stated is at the rated power supply, performance may vary as the power supply varies from the rated.

Blower Performance Data (ECM Motor)

Airflow in CFM with wet coil and clean air filter

	Max	Fan	Тар	Co	ooling Mo	de	De	humid Mo	de	Н	eating Mo	de
Model	ESP (in. wg)	Motor (hp)	Setting	Stg 1	Stg 2	Fan	Stg 1	Stg 2	Fan	Stg 1	Stg 2	Fan
	0.50		4	470	550	275	376	440	275	470	550	275
тс	0.50	1/3	3	425	500	250	340	400	250	425	500	250
015	0.50	1/3	2	380	450	225	304	360	225	380	450	225
	0.50		1	340	400	200				340	400	200
	0.50		4	550	650	325	440	520	325	550	650	325
тс	0.50	1/3	3	510	600	300	408	480	300	510	600	300
018	0.50	1/3	2	465	550	275	372	440	275	465	550	275
	0.50		1	425	500	250				425	500	250
	0.50		4	745	875	438	596	700	438	745	875	438
тс	0.50	4 /0	3	680	800	400	544	640	400	680	800	400
024	0.50	1/2	2	615	725	363	492	580	363	615	725	363
	0.50		1	550	650	325				550	650	325
	0.50		4	890	1050	525	712	840	525	890	1050	525
тс	0.50	4 /0	3	810	950	475	648	760	475	810	950	475
030	0.50	1/2	2	745	875	438	596	700	438	745	875	438
	0.50		1	680	800	400				680	800	400
	0.50		4	1085	1275	638	868	1020	638	1085	1275	638
тс	0.50	3/4	3	1020	1200	600	816	960	600	1020	1200	600
036	0.50	3/4	2	955	1125	563	764	900	563	955	1125	563
	0.50		1	850	1000	500				850	1000	500
	0.50		4	1255	1475	738	1004	1180	738	1255	1475	738
тс	0.50	3/4	3	1120	1320	660	896	1056	660	1120	1320	660
042	0.50	3/4	2	1020	1200	600	816	960	600	1020	1200	600
	0.50		1	935	1100	550				935	1100	550
	0.75		4	1445	1700	850	1156	1360	850	1445	1700	850
тс	0.75	4	3	1275	1500	750	1020	1200	750	1275	1500	750
048	0.75	1	2	1190	1400	700	952	1120	700	1190	1400	700
	0.75		1	1105	1300	650				1105	1300	650
	0.75		4	1740	2050	1025	1392	1640	1025	1740	2050	1025
тс	0.75		3	1615	1900	950	1292	1520	950	1615	1900	950
060	0.75	1	2	1490	1750	875	1192	1400	875	1490	1750	875
	0.75		1	1360	1600	800				1360	1600	800

See ECM control section for details on setting taps.

Airflow is controlled within 5% up to the Max ESP shown with wet coil.

Do not select Dehumidification mode if HP CFM is on setting 1.

ClimaDry is factory wired to operate in stage 2 airflow.

Waterside Economizer Data

WSE Cooling Performance Data

			Water Side		Air	side	Сар	acity
	Model	FLOW (gpm)	PD (psi)	PD (ft)	CFM	PD (in. wg.)	тс	sc
	006	1.5	1.9	4.4	225	0.05	6.641	4.922
	009	2.3	3.2	7.3	300	0.07	8.288	6.631
	012	3.0	1.9	4.3	400	0.11	8.485	7.569
	015	3.8	2.6	5.9	500	0.06	15.467	12.181
	018	4.5	3.5	8.2	600	0.09	17.123	14.375
Vertical	024	6.0	2.1	4.8	800	0.07	18.828	16.091
Veri	030	7.5	3.0	7.0	1000	0.11	21.711	19.242
	036	9.0	1.6	3.8	1200	0.09	24.105	21.108
	042	10.5	2.3	5.2	1400	0.11	26.739	23.785
	048	12.0	1.8	4.2	1600	0.08	34.790	30.193
	060	15.0	2.5	5.8	2000	0.14	39.031	35.758
	006	1.5	1.9	4.4	225	0.05	6.641	4.922
	009	2.3	3.2	7.3	300	0.07	8.288	6.631
	012	3.0	1.9	4.3	400	0.11	8.485	7.569
	015	3.8	2.9	6.6	500	0.05	15.118	11.905
tal	018	4.5	4.0	9.2	600	0.07	16.740	14.039
Horizontal	024	6.0	1.2	2.8	800	0.08	19.110	16.294
된	030	7.5	1.8	4.1	1000	0.12	22.209	19.672
	036	9.0	1.7	4.0	1200	0.11	25.142	21.717
	042	10.5	2.4	5.6	1400	0.14	27.879	24.488
	048	12.0	2.1	4.9	1600	0.10	37.671	31.675
	060	15.0	3.0	6.9	2000	0.15	42.388	37.813

Entering water 45° F, Entering air DB 80° F/WB 67° F

Physical Data-Unit With WSE Option

Triysical Dala Of	, ,	. ,, ,,	. 000								
TC Series	006	009	012	015	018	024	030	036	042	048	060
Water Connection Size FTP	1/2"	1/2"	1/2"	1/2"	1/2"	3/4"	3/4"	3/4"	3/4"	1"	1"
Vertical											
WSE Coil Dimensions (H x W)	10x15	10x15	10x15	20x17.25	20x17.25	20x17.25	20x17.25	24x21.75	24x21.76	24x28.25	24x28.25
WSE Coil Volume (Gal)	0.150	0.150	0.144	0.348	0.348	0.357	0.357	0.746	0.746	1.001	1.001
Weight - Operating (lbs.)	138	140	149	219	224	259	267	289	303	353	368
Weight - Packaged (lbs.)	148	150	159	224	229	264	272	295	310	360	375
Horizontal											
WSE Coil Dimensions (H x W)	10x15	10x15	10x15	16x22	16x22	16x22	16x22	20x25	20x25	20x35	20x35
WSE Coil Volume (Gal)	0.150	0.150	0.139	0.341	0.341	0.382	0.382	0.735	0.735	1.041	1.041
Weight - Operating (lbs.)	145	147	156	220	225	257	265	311	326	372	387
Weight - Packaged (lbs.)	155	157	166	225	230	262	270	317	332	379	394

Waterside Economizer Data

225 CFM Nominal Airflow TC-006

		Waterside		Capacity					
EWT °F	FLOW (gpm)	PD (psi)	PD (ft)	тс	sc	LWT			
45	0.8	1.0	2.4	5.051	4.125	58.5			
45	1.1	1.4	3.3	5.965	4.627	55.6			
45	1.5	1.9	4.4	6.641	4.922	53.9			
50	0.8	1.0	2.4	4.297	3.578	61.5			
50	1.1	1.4	3.2	4.956	4.064	58.8			
50	1.5	1.9	4.3	5.420	4.345	57.2			
55	0.8	1.0	2.4	3.640	2.950	64.7			
55	1.1	1.4	3.2	4.112	3.418	62.3			
55	1.5	1.9	4.3	4.425	3.682	60.9			
60	0.8	1.0	2.4	3.045	2.230	68.1			
60	1.1	1.4	3.2	3.400	2.676	66.0			
60	1.5	1.9	4.3	3.619	2.926	64.8			

400 CFM Nominal Airflow TC-012

		Waterside			Capacity	
EWT °F	FLOW (gpm)	PD (psi)	PD (ft)	тс	sc	LWT
45	1.5	0.7	1.5	6.898	6.590	54.2
45	2.3	1.2	2.8	7.820	7.189	52.0
45	3.0	1.9	4.3	8.485	7.569	50.7
50	1.5	0.6	1.5	5.843	5.771	57.8
50	2.3	1.2	2.7	6.410	6.232	55.7
50	3.0	1.9	4.3	6.784	6.509	54.5
55	1.5	0.6	1.4	4.937	4.927	61.6
55	2.3	1.2	2.7	5.369	5.344	59.8
55	3.0	1.8	4.3	5.611	5.568	58.7
60	1.5	0.6	1.4	3.892	3.874	65.2
60	2.3	1.2	2.7	4.326	4.314	63.8
60	3.0	1.8	4.2	4.558	4.548	63.0

600 CFM Nominal Airflow TC-018

		Waterside		Capacity				
EWT °F	FLOW (gpm)	PD (psi)	PD (ft)	тс	sc	LWT		
45	2.3	1.1	2.7	12.933	12.189	56.5		
45	3.4	2.4	5.4	15.110	13.404	54.0		
45	4.5	4.0	9.2	16.740	14.039	52.4		
50	2.3	1.1	2.7	10.918	10.653	59.7		
50	3.4	2.3	5.4	12.351	11.788	57.3		
50	4.5	3.9	9.1	13.359	12.462	55.9		
55	2.3	1.1	2.6	9.223	9.052	63.2		
55	3.4	2.3	5.4	10.225	10.028	61.1		
55	4.5	3.9	9.0	10.854	10.597	59.8		
60	2.3	1.1	2.6	7.543	7.346	66.7		
60	3.4	2.3	5.3	8.400	8.216	65.0		
60	4.5	3.8	8.9	8.880	8.705	63.9		

1000 CFM Nominal Airflow TC-030

1000 CIM Nominal Annow 1C-030								
		Waterside			Capacity			
EWT °F	FLOW (gpm)	PD (psi)	PD (ft)	тс	sc	LWT		
45	3.8	0.5	1.2	16.369	15.150	53.7		
45	5.6	1.1	2.4	19.937	18.055	52.1		
45	7.5	1.8	4.1	22.209	19.672	50.9		
50	3.8	0.5	1.2	14.115	13.516	57.5		
50	5.6	1.1	2.4	17.032	16.062	56.1		
50	7.5	1.8	4.1	18.697	17.317	55.0		
55	3.8	0.5	1.2	12.056	11.674	61.4		
55	5.6	1.1	2.4	14.344	13.853	60.1		
55	7.5	1.8	4.1	15.418	14.742	59.1		
60	3.8	0.5	1.2	10.208	9.604	65.4		
60	5.6	1.0	2.4	11.889	11.414	64.2		
60	7.5	1.8	4.1	12.383	11.935	63.3		

Interpolation is permissable, extrapolation is not. All entering air conditions are 80°F DB and 67°F WB. See performance correction tables for operating conditions other than those listed above.

300 CFM Nominal Airflow TC-009

		Waterside			Capacity	
EWT °F	FLOW (gpm)	PD (psi)	PD (ft)	тс	sc	LWT
45	1.1	1.4	3.3	6.442	5.757	56.5
45	1.7	2.2	5.0	7.518	6.312	53.9
45	2.3	3.2	7.3	8.288	6.631	52.4
50	1.1	1.4	3.2	5.394	5.041	59.6
50	1.7	2.2	5.0	6.140	5.572	57.3
50	2.3	3.1	7.3	6.652	5.878	55.9
55	1.1	1.4	3.2	4.507	4.219	63.0
55	1.7	2.1	4.9	5.016	4.721	60.9
55	2.3	3.1	7.2	5.346	5.002	59.8
60	1.1	1.4	3.2	3.742	3.274	66.7
60	1.7	2.1	4.9	4.103	3.750	64.9
60	2.3	3.1	7.2	4.321	4.011	63.8

500 CFM Nominal Airflow TC-015

	Waterside			Capacity			
EWT °F	FLOW (gpm)	PD (psi)	PD (ft)	тс	sc	LWT	
45	1.9	0.8	1.9	11.606	10.149	57.4	
45	2.8	1.7	3.9	13.603	11.282	54.7	
45	3.8	2.9	6.6	15.118	11.905	53.1	
50	1.9	0.8	2.0	9.883	8.861	60.5	
50	2.8	1.7	3.9	11.233	9.896	58.0	
50	3.8	2.8	6.5	12.189	10.519	56.5	
55	1.9	0.8	2.0	8.377	7.518	63.9	
55	2.8	1.7	3.9	9.367	8.419	61.7	
55	3.8	2.8	6.5	9.986	8.946	60.3	
60	1.9	0.8	2.0	6.822	6.075	67.3	
60	2.8	1.7	3.8	7.696	6.883	65.5	
60	3.8	2.8	6.4	8.189	7.343	64.4	

800 CFM Nominal Airflow TC-024

	Waterside			Capacity		
EWT °F	FLOW (gpm)	PD (psi)	PD (ft)	тс	sc	LWT
45	3.0	0.4	0.8	13.625	12.035	54.1
45	4.5	0.7	1.6	16.786	14.548	52.5
45	6.0	1.2	2.8	19.110	16.294	51.4
50	3.0	0.4	0.8	11.758	10.732	57.8
50	4.5	0.7	1.6	14.407	12.993	56.4
50	6.0	1.2	2.7	16.265	14.484	55.4
55	3.0	0.4	0.8	10.064	9.250	61.7
55	4.5	0.7	1.6	12.225	11.250	60.4
55	6.0	1.2	2.7	13.632	12.481	59.5
60	3.0	0.4	0.8	8.560	7.569	65.7
60	4.5	0.7	1.6	10.254	9.307	64.6
60	6.0	1.2	2.7	11.223	10.277	63.7

1200 CFM Nominal Airflow TC-036

	Waterside			Capacity		
EWT °F	FLOW (gpm)	PD (psi)	PD (ft)	тс	sc	LWT
45	4.5	0.3	0.7	18.768	17.626	53.3
45	6.8	0.9	2.1	22.404	20.058	51.6
45	9.0	1.7	4.0	25.142	21.717	50.6
50	4.5	0.3	0.6	16.318	15.344	57.3
50	6.8	0.9	2.0	19.284	17.552	55.7
50	9.0	1.7	4.0	21.383	19.009	54.8
55	4.5	0.3	0.6	13.912	12.951	61.2
55	6.8	0.9	2.1	16.212	14.929	59.8
55	9.0	1.8	4.1	17.675	16.181	58.9
60	4.5	0.4	0.8	11.549	10.445	65.1
60	6.8	1.0	2.3	13.190	12.188	63.9
60	9.0	1.9	4.5	14.020	13.232	63.1

Waterside Economizer Data

1400 CFM Nominal Airflow TC-042

		Waterside		Capacity				
EWT °F	FLOW (gpm)	PD (psi)	PD (ft)	тс	sc	LWT		
45	5.3	0.5	1.1	21.057	20.113	53.0		
45	7.9	1.3	3.0	25.064	22.800	51.4		
45	10.5	2.4	5.6	27.879	24.488	50.3		
50	5.3	0.4	1.0	18.254	17.544	57.0		
50	7.9	1.3	2.9	21.453	19.959	55.4		
50	10.5	2.4	5.6	23.492	21.398	54.5		
55	5.3	0.5	1.1	15.497	14.853	60.9		
55	7.9	1.3	3.0	17.895	16.990	59.5		
55	10.5	2.5	5.8 19.1		18.176	58.6		
60	5.3	0.6	1.3 12.		12.039	64.9		
60	7.9	1.4	3.3	14.389	13.893	63.7		
60	10.5	2.7	6.2	14.884	14.823	62.8		

2000 CFM Nominal Airflow TC-060

		Waterside		Capacity			
EWT °F	FLOW (gpm)	PD (psi)	PD (ft)	тс	sc	LWT	
45	7.5	1.2	2.7	33.525	32.134	53.9	
45	11.3	1.9	4.5	38.794	35.768	51.9	
45	15.0	3.0	6.9	42.388	37.813	50.7	
50	7.5	1.2	2.8	28.521	27.934	57.6	
50	11.3	2.0	4.6	32.687	31.220	55.8	
50	15.0	3.0	6.9	35.360	32.993	54.7	
55	7.5	1.2	2.8	23.862	23.471	61.4	
55	11.3	2.0	4.6	26.996	26.408	59.8	
55	15.0	3.0	7.0	28.793	27.909	58.8	
60	7.5	1.2	2.7	19.574	18.723	65.2	
60	11.3	2.0	4.6	21.744	21.316	63.9	
60	15.0	3.0	7.0	22.709	22.548	63.0	

Interpolation is permissable, extrapolation is not. All entering air conditions are 80°F DB and 67°F WB. See performance correction tables for operating conditions other than those listed above.

1600 CFM Nominal Airflow TC-048

		Waterside			Capacity		
EWT °F	FLOW (gpm)	PD (psi)	PD (ft)	тс	sc	LWT	
45	6.0	0.9	2.2	29.364	26.323	54.8	
45	9.0	1.5	3.4	34.188	29.606	52.6	
45	12.0	2.1	4.9	37.671	31.675	51.3	
50	6.0	1.0	2.2	25.063 22.810		58.4	
50	9.0	1.5	3.4	28.940	25.807	56.4	
50	12.0	2.2	5.0	31.653	27.659	55.3	
55	6.0	1.0	2.2	21.061	19.070	62.0	
55	9.0	1.5	3.4	24.060	21.779	60.3	
55	12.0	2.2	5.0	26.048	23.413	59.3	
60	6.0	0.9	2.2	17.384	15.081	65.8	
60	9.0	1.5	3.4	19.572	17.506	64.3	
60	12.0	2.2	5.0	20.879	18.924	63.5	

PD Table For WSE 3 Way Valve

	Econ - On	Econ -Off				
Model	CV					
006	5.6	4.9				
009	5.6	4.9				
012	5.6	4.9				
015	11.7	5.8				
018	11.7	5.8				
024	11.7	5.8				
030	11.7	5.8				
036	11.7	5.8				
042	11.7	5.8				
048	18.7	9.3				
060	18.7	9.3				

Airside PD

All slac I										
			AirSide PD Adder (in. wg) at CFM							
Model	Rated Airflow	150	175	200	225	250				
TC*006	225	0.03	0.03	0.04	0.05	0.06				
Model	Rated Airflow	225	260	300	340	375				
TC*009	300	0.05	0.06	0.07	0.09	0.10				
Model	Rated Airflow	300	350	400	450	500				
TC*012	400	0.07	0.09	0.11	0.13	0.15				
Model	Rated Airflow	375	437.5	500	562.5	625				
TC*015	500	0.03	0.04	0.05	0.06	0.07				
Model	Rated Airflow	450	525	600	675	750				
TC*018	600	0.04	0.06	0.07	0.08	0.10				
Model	Rated Airflow	600	700	800	900	1000				
TC*024	800	0.05	0.07	0.08	0.10	0.12				
Model	Rated Airflow	750	875	1000	1125	1250				
TC*030	1000	0.08	0.10	0.12	0.14	0.16				
Model	Rated Airflow	900	1050	1200	1350	1500				
TC*036	1200	0.07	0.09	0.11	0.13	0.16				
Model	Rated Airflow	1050	1225	1400	1575	1750				
TC*042	1400	0.09	0.12	0.14	0.17	0.21				
Model	Rated Airflow	1200	1400	1600	1800	2000				
TC*048	1600	0.06	0.08	0.10	0.12	0.15				
Model	Rated Airflow	1500	1750	2000	2250	2500				
TC*060	2000	0.09	0.12	0.15	0.17	0.20				

Add WSE to your duct static to get total ESP. Check blower performance table to be sure you meet CFM requirement and are within operational range.

Waterside Economizer Correction Tables

Entering Air Correction Table for WSE

	Full Load Cooling Corrections 400 CFM per Ton											
Ent Air	Total Clg	Sens Clg Cap Multipliers - Entering DB ^o F										
WB ⁰F Cap	65	70	75	80	80.6	85	90	95	100			
50	0.352	*	*	*	*	*	*	*	*	*		
55	0.507	0.615	0.766	*	*	*	*	*	*	*		
60	0.693	0.542	0.740	0.912	*	*	*	*	*	*		
65	0.906		0.623	0.842	1.035	1.057	*	*	*	*		
66.2	0.962		0.582	0.811	1.016	1.039	1.195	*	*	*		
67	1.000		0.551	0.788	1.000	1.024	1.187	*	*	*		
70	1.148			0.681	0.920	0.947	1.135	1.324	*	*		
75	1.420				0.715	0.748	0.976	1.211	1.421	1.421		

* Sensible capacity equals total capacity.

AHRI/ISO/ASHRAE 13256-1 uses entering air conditions of Cooling - 80.6°F DB/ 66.2°F WB, and Heating -68°F DB/ 59°F WB entering air temperature.

Air Flow Correction Table

Airflow	Cooling Corrections					
% Normal Capacity	Sensible Capacity	Sens/Total Ratio				
75	0.834	0.940				
81.25	0.878	0.957				
87.5	0.921	0.972				
93.75	0.962	0.987				
100	1.000	1.000				
106.25	1.036	1.012				
112.5	1.071	1.023				
118.75	1.103	1.033				
125	1.133	1.042				

The ECM fan is controlled by an interface board that converts thermostat inputs and field selectable CFM settings to signals used by the ECM motor controller. Fan speeds are selected with DIP switch settings. To take full advantage of the ECM motor staging features, a multi-stage thermostat should be used (2-stage heat/2-stage cool or 3-stage heat/2-stage cool).

Note: Power must be off to the unit for at least three seconds before the ECM motor will recognize a speed change. The motor will recognize a change in the CFM Adjust or dehumidification mode settings while the unit is powered.

There are four different airflow settings from lowest airflow rate (speed tap 1) to the highest airflow rate (speed tap 4). The charts below indicate settings for the ECM interface board, followed by detailed information for each setting.

Cooling Settings: The cooling setting determines the cooling (normal) CFM for all units with ECM motor. Cooling (normal) setting is used when the unit is not in dehumidification mode. Tap 1 is the lowest CFM setting, while tap 4 is the highest CFM setting. To avoid air coil freeze-up, tap 1 may not be used if the dehumidification mode is selected. Consult the ECM blower performance data table for the specific unit series and model to correlate speed tap setting to airflow in CFM.

Heating Settings: The heating setting determines the heating CFM. Tap 1 is the lowest CFM setting, while tap 4 is the highest CFM setting. Consult the ECM blower performance data table for the specific unit series and model to correlate speed tap setting to airflow in CFM.

CFM Adjust Settings: The CFM adjust setting allows four selections. The NORM setting is the factory default position. The + or – settings adjust the airflow by +/- 5%. The +/- settings are used to "fine tune" airflow adjustments. The TEST setting runs the ECM motor at 400 cfm/ton, which causes the motor to operate like a standard PSC motor, and disables the CFM counter.

Dehumidification Mode Settings: The dehumidification mode setting provides field selection of humidity control. When operating in the normal mode, the cooling airflow settings are determined by the cooling tap setting above. When dehumidification is enabled there is a reduction in airflow in cooling to increase the moisture removal of the heat pump. Consult submittal data or specifications catalog for the specific unit series and model to correlate speed tap to airflow in CFM. The dehumidification mode can be enabled in two ways.

Cooling settings

Tap Setting	DIP S	witch
9	SW1	SW2
1	ON	ON
2	ON	OFF
3	OFF	ON
4	OFF	OFF

Heating settings

Tap Setting	DIP Switch						
J 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	SW3	SW4					
1	ON	ON					
2	ON	OFF					
3	OFF	ON					
4	OFF	OFF					

CFM Adjust settings

Tap Setting	DIP Switch						
3	SW7	SW8					
TEST	ON	ON					
-	ON	OFF					
+	OFF	ON					
NORM	OFF	OFF					

Dehum Mode settings

Tap Setting	DIP Switch
	SW9
NORM	ON
Dehumid	OFF

Only DIP switch numbers 1 to 4 and 7 to 9 are used.

A WARNING! A

WARNING! When the disconnect switch is closed, high voltage is present in some areas of the electrical panel. Exercise caution when working with energized equipment.

ECM Control

- 1. Constant Dehumidification Mode: When the dehumidification mode is selected (via DIP switch or jumper setting), the ECM motor will operate with a multiplier applied to the cooling CFM settings (approx. 20-25% lower airflow). Any time the unit is running in the cooling mode, it will operate at the lower airflow to improve latent capacity. The "DE-HUM" LED will be illuminated at all times. Heating airflow is not affected. Note: Do not select dehumidification mode if cooling setting is tap 1.
- 2. Automatic (Humidistat-controlled) Dehumidification Mode: When the dehumidification mode is selected (via DIP switch) AND a humidistat is connected to terminal DH, the cooling airflow will only be reduced when the humidistat senses that additional dehumidification is required. The DH terminal is reverse logic. Therefore, a humidistat (not dehumidistat) is required. The "DEHUM" LED will be

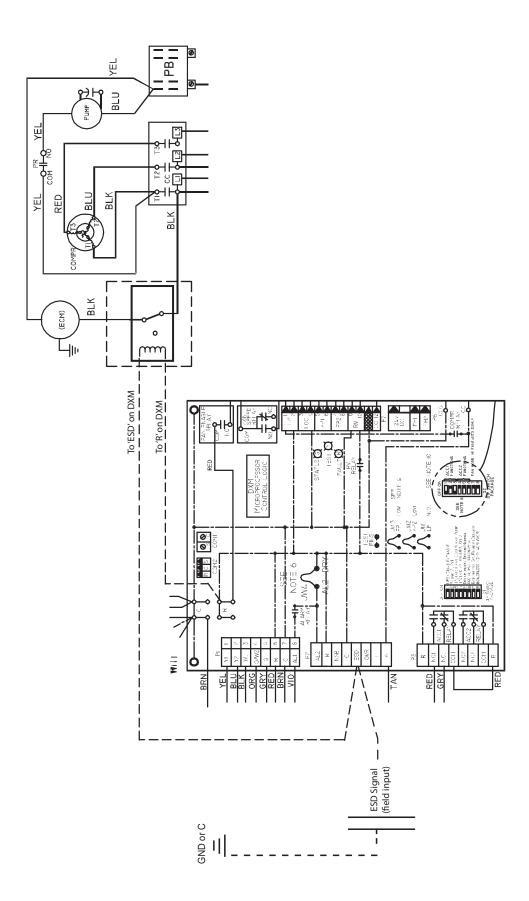
illuminated only when the humidistat is calling for dehumidification mode. Heating airflow is not affected. The ECM motor includes "soft start" and "ramp down" features. The soft start feature is a gentle increase of motor rpm at blower start up. This creates a much quieter blower start cycle.Note: Do not select dehumidification mode if cooling setting is Tap 1.

The ramp down feature allows the blower to slowly decrease rpm to a full stop at the end of each blower cycle. This creates a much quieter end to each blower cycle and adds overall unit efficiency.

The ramp down feature may be eliminated during an ESD (Emergency Shut Down) situation when using a DXM unit controller. A relay is required to break the line voltage to the ECM motor during ESD. This relay can be wired as shown below to eliminate the ramp down (and operation) of the ECM blower motor.

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Physical Data

TC Series	006	009	012	015	018	024	030	036	041	042	048	060
Compressor (1 Each)			Rotary						Scroll			
Factory Charge HFC-410A (oz)	17	18.5	23	32	43	40	47	50	70	70	74	82
ECM Fan Motor & Blower												
Blower Wheel Size (Dia x w)	N/A	N/A	N/A	9x7	9x7	9x7	9x7	9x8	N/A	9x8	10x10	11x10
PSC Fan Motor & Blower												
Fan Motor Type/Speeds	PSC/3	PSC/3	PSC-3	PSC/3	PSC/3	PSC/3	PSC/3	PSC/3	PSC/3	PSC/3	PSC/3	PSC/3
Blower Wheel Size (Dia x w)	5x5	5x5	6x5	8x7	8x7	9x7	9x7	9x8	9x8	9x8	10x10	11x10
Water Connection Size												
FPT	1/2"	1/2"	1/2"	1/2"	1/2"	3/4"	3/4"	3/4"	3/4"	3/4"	1"	1"
Coax Volume (gallons)	0.123	0.143	0.167	0.286	0.450	0.286	0.323	0.323	0.890	0.890	0.738	0.939
Vertical												
Air Coil Dimensions (H x W)	10x15	10x15	10x15	20x17.25	20x17.25	20x17.25	20x17.25	24x21.75	20x17.25	24x21.76	24x28.25	24x28.25
Filter Standard - 1" Throwaway	10x18	10x18	10x18	20x20	20x20	20x20	20x20	24x24	20x20	24x24	1-14x24, 1-18x24	1-14x24, 1-18x24
Weight - Operating (lbs.)	103	105	114	153	158	189	197	203	210	218	263	278
Weight - Packaged (lbs.)	113	115	124	158	163	194	202	209	217	224	270	285
Horizontal												
Air Coil Dimensions (H x W)	10x15	10x15	10x15	16x22	16x22	16x22	16x22	20x25	N/A	20x25	20x35	20x35
Filter Standard - 1" Throwaway	10x18	10x18	10x18	16x25	16x25	18x25	18x25	20x28 or 2-20x14	N/A	20x28 or 2-20x14	1-20x24, 1-20x14	1-20x24, 1-20x14
Weight - Operating (lbs.)	103	105	114	153	158	174	182	203	N/A	218	263	278
Weight - Packaged (lbs.)	113	115	124	158	163	179	187	209	N/A	224	270	285

Notes:

All units have TXV expansion device, and 1/2" & 3/4" electrical knockouts.

FPT = Female Pipe Thread

Condensate Drain Connection is 3/4" FPT.

575 volt fan motors are two speed.

 $Models\,006,009,012\,compressor\,are\,mounted\,on\,springs.\,In staller\,must\,loosen\,bolts\,and\,remove\,shipping\,bracket.$

Unit Maximum Water Working Pressure	Max Pressure PSIG [kPa]
Base Unit	500 [3447]
WSE Option	300 [2068]

TC - Horizontal - Dimensional Data

Horiz	ontol	Ov	erall Cabir	net
Mo		A Width	B Length	C Height
006 - 012	in	19.1	34.1	11.1
	cm	48.5	86.6	28.2
015 - 018	in	20.1	43.1	17.0
	cm	51.1	109.5	43.2
024 - 030	in	20.1	43.1	18.3
	cm	51.1	109.5	46.5
036 - 042	in	20.1	47.1	21.0
	cm	51.1	119.6	53.3
048 - 060	in	24.1	54.1	21.0
	cm	61.2	137.4	53.3

		Elect	rical Knocl	couts
Horiz		H	J	K
Mo		1/2"	1/2"	3/4"
		Low Voltage	Low Voltage	Power Supply
006 - 012	in	8.1	5.1	2.1
	cm	20.6	13.0	5.4
015 - 030	in	12.1	9.1	6.1
	cm	30.8	23.2	15.6
036 - 060	in	16.1	13.1	10.1
	cm	41.0	33.3	25.7

				Wa	ter Connec	tions		
Horiz	ontal	િ		(2)	(3)	
Мо	del	Loop In	Loop In	Loop Out	Loop Out	Cond. 3	3/4" FPT	Loop In/Out FPT
		D	E	F	G	AA	ВВ	
006 - 012	in cm	5.6 14.2	1.1 2.7	1.6 4.1	1.1 2.7	3.3 8.4	0.7 1.8	1/2"
015	in cm	15.1 38.4	1.4 3.4	3.2 8.1	1.4 3.5	3.3 8.4	0.7 1.8	1/2"
018	in cm	15.1 38.4	1.4 3.4	4.1 10.4	1.4 3.5	3.3 8.4	0.7 1.8	1/2"
024	in cm	16.4 41.7	1.4 3.4	4.4 11.3	1.4 3.5	3.3 8.4	0.7 1.8	3/4"
030	in cm	16.4 41.7	1.4 3.4	3.1 7.8	1.4 3.5	3.3 8.4	0.7 1.8	3/4"
036	in cm	19.1 48.5	1.4 3.4	5.3 13.4	1.4 3.5	3.3 8.4	0.7 1.8	3/4"
042	in cm	19.1 48.5	1.4 3.4	4.4 11.3	1.4 3.5	3.3 8.4	0.7 1.8	3/4"
048	in cm	19.1 48.5	1.4 3.4	4.4 11.1	1.4 3.5	3.3 8.4	0.7 1.8	1"
060	in cm	19.1 48.5	1.4 3.4	3.8 9.7	1.4 3.5	3.3 8.4	0.7 1.8	1"

Havin	antal	D	Discha uct Flange Insta	arge Connectionalled (+/- 0.10 in		n)	U:	Return Conne sing Return Air		
Horiz Mo		L	M Supply Height	N Supply Width	0	Р	Q Return Width	R Return Height	S	т
006 - 012	in	0.8	8.9	6.7	6.0	1.3	16.1	9.8	1.1	0.6
	cm	1.9	22.7	17.0	15.2	3.3	41.0	25.0	2.7	1.5
015 - 018	in	2.6	13.3	9.9	4.1	1.3	23.0	15.0	1.1	1.0
	cm	6.6	33.8	25.1	10.5	3.3	58.4	38.1	2.8	2.5
024 - 030	in	2.6	13.3	9.9	4.1	1.3	23.0	16.3	1.1	1.0
	cm	6.6	33.8	25.1	10.5	3.3	58.4	41.4	2.8	2.5
036 - 042	in	2.5	16.1	11.0	3.0	2.5	25.9	19.0	1.1	1.0
	cm	6.3	40.9	27.9	7.7	6.4	65.8	48.3	2.8	2.5
048	in	3.7	16.1	13.7	4.1	1.3	35.9	19.0	1.1	1.0
	cm	9.5	41.0	34.8	10.3	3.2	91.2	48.3	2.8	2.5
060	in	1.7	18.1	13.7	4.1	1.3	35.9	19.0	1.1	1.0
	cm	4.4	46.0	34.8	10.3	3.2	91.2	48.3	2.8	2.5

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TC - Horizontal - Dimensional Data

LEFT RETURN RIGHT RETURN CCP ASP Front Front Power Supply 3 / 4" [19.1mm] Knockout Left Return Right Return -1.1 [27.9mm] G-[12.7mm] Knockout ASP 3.3" Kı [83.8mm] 3.3" 1 2 [83.8mm] Low Voltage 1 / 2" [12.7mm] Knockout CCP 0.7" [17.8mm] 0.7" [17.8mm] Straight 1 Straight BB. вв⋖ Discharge Condensate 3 / 4" FPT Back Note: Choose either Front-View Condensate 3 / 4" FPT Back Discharge Note: Choose either Discharge back or straight discharge back or straight discharge Note: Blower service panel requires 2' service access Unit Hanger Detail BSP BSP Blower Outlet Blower 006-012 34.1 [86.6] 21.1 [53.6] | 16.9 [42.9] 015-030 43.1 [109.5] 22.2 [56.4] 18.0 [45.7] 036-042 47.1 [119.6] 22.2 [56.4] 18.0 [45.7] 048-060 | 54.1 [137.4] | 26.2 [66.5] | 22.0 [55.9] -O-Right Return Back Discharge Left Return Back Discharge CCP CCP Blower Outlet BSF **BSP** 0 ASP Blower Outlet Front Front Right Return Straight Discharge Left Return Straight Discharge 1.75 [44.5mm] Air Coil S Air Coil 0 ASP 0 Ŕ Ŕ Ċ

Notes:

- While clear access to all removable panels is not required, installer should take care to comply with all building codes and allow adequate clearance for future field service.
- Units are shipped with air filter rails that are not suitable for supporting return air ductwork. An air filter frame with duct mounting collar is available as an accessory, see the ClimateMaster Accessory Submittal set for futher information on this frame.
- 3. Discharge flange and hanger brackets are factory installed.
- 4. Condensate is 3/4" FPT.
- 5. Blower service panel requires 2' service access.
- 6. Blower service access is through back panel on straight discharge units or through panel opposite air coil on back discharge units

Legend:

CCP = Control/Compressor Access Panel

BSP = Blower Service Panel

*ASP = Additional Service Panel (not required)

Note:

*ASP are removable panels that provide additional access to the units interior.

Left Return Left View -

Air Coil Opening

Clear access to ASP panels is not required and they are not to be used in place of the mandatory CCP and BSP panels.

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Front

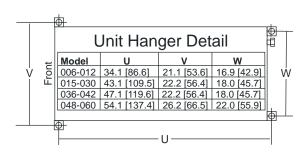
Front

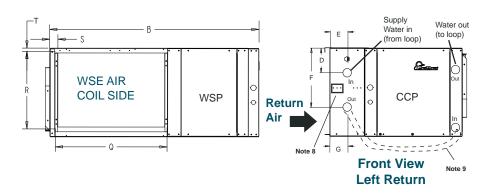
Right Return Right View -Air Coil Opening

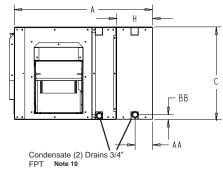
TCH with Left Hand Waterside Economizer-Dimensional Data

		01	verall Cab	inet	WSE			Left W	SE Conne	ections			ι	Return C Ising Return	onnection n Air Openi	
Horizontal Model		A Width	B Length	C Height	H Width	I	n	0	ut	Cond. 3	3/4" FBT	Water In/Out	Q Return	R Return	s	т
		Width	Longin	ricigiii	Width	D	E	F	G	AA	ВВ	FPT	Width	Height		
006-012	in	26.1	34.1	11.0	7.1	4.7	3.5	8.0	3.5	3.5	0.8	1/2"	16.1	10.0	1.5	0.3
	cm	66.3	86.6	27.9	18.0	11.9	8.9	20.3	8.9	8.9	2.0		40.9	25.4	3.8	0.8
015-018	in	27.2	43.1	17.0	7.1	5.3	3.5	11.5	3.5	3.5	0.8	1/2"	23.0	16.0	1.5	0.3
	cm	69.1	109.5	43.2	18.0	13.5	8.9	29.2	8.9	8.9	2.0		58.4	40.6	3.8	0.8
024-030	in	27.2	43.1	18.2	7.1	5.1	3.5	21.1	3.5	3.5	0.8	3/4"	22.9	16.0	1.5	0.3
	cm	69.1	109.5	46.2	18.0	13.0	8.9	53.6	8.9	8.9	2.0		58.2	40.6	3.8	0.8
036-042	in	27.2	47.1	21.0	7.1	6.5	3.5	14.0	3.5	3.5	0.8	3/4"	26.0	20.0	1.5	0.3
	cm	69.1	119.6	53.3	18.0	16.5	8.9	35.6	8.9	8.9	2.0		66.0	50.8	3.8	0.8
048-060	in	31.6	54.1	21.0	7.5	5.0	1.3	15.9	1.3	3.5	0.8	3/4"	36.0	20.0	1.5	0.3
	cm	80.3	137.4	53.3	19.1	12.7	3.3	40.4	3.3	8.9	2.0		91.4	50.8	3.8	0.8

Straight Discharge







Back View

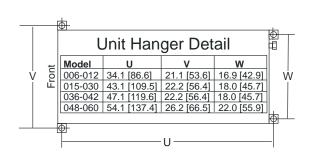
Notes:

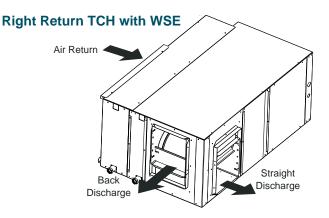
- While clear access to all removable panels is not required, installer should take care to comply with all building codes and allow adequate clearance for future field service.
- Units are shipped with air filter rails that are not suitable for supporting return air ductwork. An air filter frame with duct mounting collar is available as an accessory, see the ClimateMaster Accessory Submittal set for futher information on this frame.
- 2 Diapharaa flanca and handar brooksta are factory installed

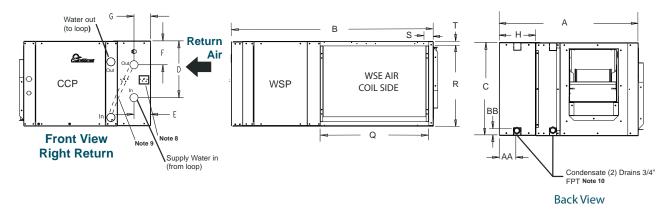
- 6. Blower service access is through back panel on straight discharge units or through panel opposite air coil on back discharge units.
- 7. Filters same size as standard unit
- Factory supplied controller (aquastat) is shipped inside unit open waterside economizer panel (WSP), remove, slide onto dinrail, and connect molex.
- WSE to unit piping to be field fabricated, Run below or in front. Must leave room to remove front access panel (CCP) to service unit.
- 10 External tran and vent both drains before ioining

TCH with Right Hand Waterside Economizer-Dimensional Data

		Ov	verall Cabi	inet	WSE			Left W	SE Conne	ections			ι	Return C Ising Return	onnection n Air Openi	•
Horizontal Model		A Width	B Length	C Height	H Width	I	n	0	ut	Cond. 3	/4" FBT	Water In/Out	Q Return	R Return	s	т
		widii	Lengui	Height	width	D	E	F	G	AA	ВВ	FPT	Width	Height		
006-012	in	26.1	34.1	11.0	7.1	8.0	3.5	4.7	3.5	3.5	0.8	1/2"	16.1	10.0	1.5	0.3
	cm	66.3	86.6	27.9	18.0	20.3	8.9	11.9	8.9	8.9	2.0		40.9	25.4	3.8	0.8
015-018	in	27.2	43.1	17.0	7.1	11.5	3.5	5.3	3.5	3.5	0.8	1/2"	23.0	16.0	1.5	0.3
	cm	69.1	109.5	43.2	18.0	29.2	8.9	13.5	8.9	8.9	2.0		58.4	40.6	3.8	0.8
024-030	in	27.2	43.1	18.2	7.1	21.1	3.5	5.1	3.5	3.5	0.8	3/4"	22.9	16.0	1.5	0.3
	cm	69.1	109.5	46.2	18.0	53.6	8.9	13.0	8.9	8.9	2.0		58.2	40.6	3.8	0.8
036-042	in	27.2	47.1	21.0	7.1	14.0	3.5	6.5	3.5	3.5	0.8	3/4"	26.0	20.0	1.5	0.3
	cm	69.1	119.6	53.3	18.0	35.6	8.9	16.5	8.9	8.9	2.0		66.0	50.8	3.8	0.8
048-060	in	31.6	54.1	21.0	7.5	15.9	1.3	5.0	1.3	3.5	0.8	3/4"	36.0	20.0	1.5	0.3
	cm	80.3	137.4	53.3	19.1	40.4	3.3	12.7	3.3	8.9	2.0		91.4	50.8	3.8	0.8







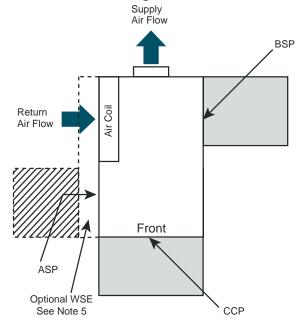
Notas

- While clear access to all removable panels is not required, installer should take care to comply with all building codes and allow adequate clearance for future field service.
- Units are shipped with air filter rails that are not suitable for supporting return air ductwork. An air filter frame with duct mounting collar is available as an accessory, see the ClimateMaster Accessory Submittal set for futher information on this frame.
- 3. Discharge flange and hanger brackets are factory installed.
- 4. Condensate drains are 3/4" FPT.
- 5. Blower service panel requires 2' service access.

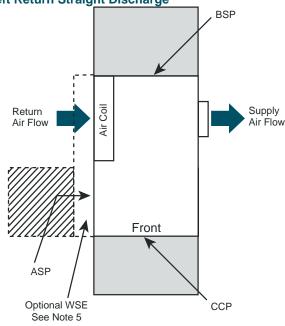
- 6. Blower service access is through back panel on straight discharge units or through panel opposite air coil on back discharge units.
- 7. Filters same size as standard unit
- Factory supplied controller (aquastat) is shipped inside unit open waterside economizer panel (WSP), remove, slide onto dinrail, and connect molex.
- WSE to unit piping to be field fabricated, Run below or in front. Must leave room to remove front access panel (CCP) to service unit.
- 10. External trap and vent both drains before joining.

TC - Horizontal Service Access

Left Return Back Discharge



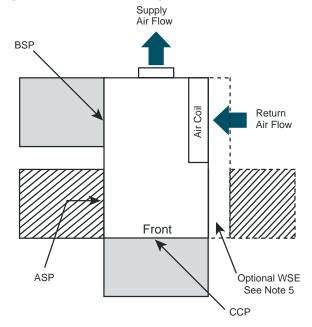
Left Return Straight Discharge



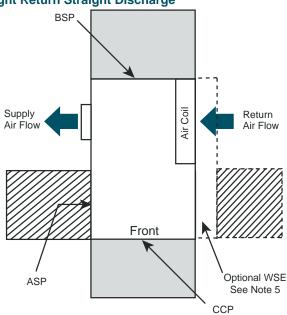
Notes:

- While clear access to all removable panels is not required, installer should take care to comply with all building codes and allow adequate clearance for future field service.
- 2. CCP and BSP requires 2' service access.
- 3. Blower service access is through back panel on straight discharge units or through panel opposite air coil on back discharge units.
- 4. ASP are removable panels that provide additional access to the units interior. Clear access to ASP panels is not required and they are not to be used in place of the mandatory CCP and BSP panels.
- Units with WSE must have access to water valve through side access panel.

Right Return Back Discharge



Right Return Straight Discharge



= mandatory 2' service access

= (optional) additional 2' service access

edend.

CCP = Control/Compressor Access Panel

BSP = Blower Service Panel

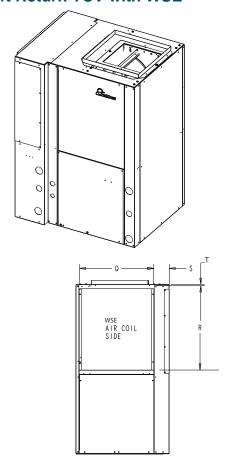
ASP = Additional Service Panel (not required)

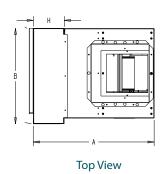
WSE = Waterside Economizer

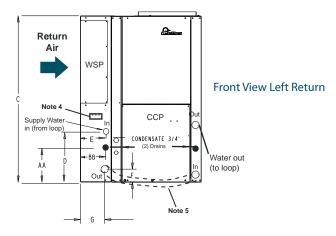
TCV with Left Hand Waterside Economizer-Dimensional Data

		0	verall Cabi	inet	WSE			WSE	Connect	tions			ι	Return C	onnection n Air Openii	
Horizontal Model		A Width	B Length	C Height	H Width	I	n	0	ut	Cond. 3	/4" FBT	Water In/Out	Q Return	R Return	s	т
		width	Lengui	rieigiit	width	D	E	F	G	AA	ВВ	FPT	Width	Height		
006-012	in	26.1	21.2	22.0	7.1	8.1	5.5	2.1	5.5	5.1	5.5	1/2"	16.1	10.0	4.2	0.4
	cm	66.3	53.8	55.9	18.0	20.6	14.0	5.3	14.0	13.0	14.0		40.9	25.4	10.7	1.0
015-018	in	28.9	23.2	38.9	7.4	10.8	6.0	2.6	6.0	7.1	6.0	1/2"	18.1	20.0	3.8	0.3
	cm	73.4	58.9	98.8	18.8	27.4	15.2	6.6	15.2	18.0	15.2		46.0	50.8	9.7	0.8
024-030	in	29.0	24.7	40.0	7.4	11.6	6.0	2.6	6.0	7.1	6.0	3/4"	18.1	20.0	3.8	0.3
	cm	73.7	62.7	101.6	18.8	29.5	15.2	6.6	15.2	18.0	15.2		46.0	50.8	9.7	0.8
036-042	in	29.0	28.7	45.0	7.4	12.1	6.0	2.6	6.0	7.1	6.0	3/4"	22.7	24.0	4.6	0.1
	cm	73.7	72.9	114.3	18.8	29.5	15.2	6.6	15.2	18.0	15.2		57.7	61.0	11.7	0.3
048-060	in	31.2	37.2	46.0	7.0	12.1	5.8	3.1	5.8	7.1	5.8	3/4"	29.3	24.0	5.0	0.1
	cm	79.2	94.5	116.8	17.8	30.7	14.7	7.9	14.7	18.0	14.7		74.4	61.0	12.7	0.3

Left Return TCV with WSE





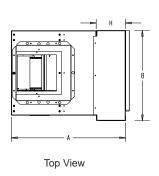


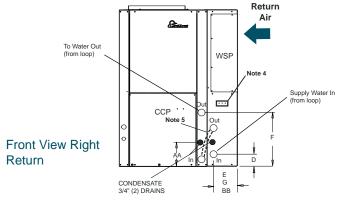
Notes:

- Units are shipped with air filter rails that are not suitable for supporting return air ductwork. An air filter frame with duct mounting collar is available as an accessory, see the Climate Master Accessory Submittal set for futher information on this frame.
- Condensate drains are 3/4" FPT, both are internally trapped, externally vent both drains before joining.
- 3. Filters same size as standard unit.
- Factory supplied controller (aquastat) is shipped inside unit, open waterside economizer panel (WSP), remove, slide onto dinrail, and connect molex.
- 5. WSE to unit piping to be field fabricated, run below or in front. Must leave room to remove front access panel (CCP) to service unit.

TCV with Right Hand Waterside Economizer-Dimensional Data

		0	verall Cabi	inet	WSE			WSE	Connect	ions			ι	Return C Jsing Return	onnection n Air Openii	
Horizontal Model		A Width	B Length	C Height	H Width	I	n	0	ut	Cond. 3	/4" FBT	Water In/Out	Q Return	R Return	s	т
		Width	Longin	ricigin	Width	D	E	F	G	AA	ВВ	FPT	Width	Height		
006-012	in	26.1	21.2	22.0	7.1	2.1	5.5	8.1	5.5	5.1	5.5	1/2"	16.1	10.0	4.2	0.4
	cm	66.3	53.8	55.9	18.0	5.3	14.0	20.6	14.0	13.0	14.0		40.9	25.4	10.7	1.0
015-018	in	28.9	23.2	38.9	7.4	2.6	6.0	10.8	6.0	7.1	6.0	1/2"	18.1	20.0	3.8	0.3
	cm	73.4	58.9	98.8	18.8	6.6	15.2	27.4	15.2	18.0	15.2		46.0	50.8	9.7	0.8
024-030	in	29.0	24.7	40.0	7.4	2.6	6.0	11.6	6.0	7.1	6.0	3/4"	18.1	20.0	3.8	0.3
	cm	73.7	62.7	101.6	18.8	6.6	15.2	29.5	15.2	18.0	15.2		46.0	50.8	9.7	0.8
036-042	in	29.0	28.7	45.0	7.4	2.6	6.0	12.1	6.0	7.1	6.0	3/4"	22.7	24.0	4.6	0.1
	cm	73.7	72.9	114.3	18.8	6.6	15.2	29.5	15.2	18.0	15.2		57.7	61.0	11.7	0.3
048-060	in	31.2	37.2	46.0	7.0	3.1	5.8	12.1	5.8	7.1	5.8	3/4"	29.3	24.0	5.0	0.1
	cm	79.2	94.5	116.8	17.8	7.9	14.7	30.7	14.7	18.0	14.7		74.4	61.0	12.7	0.3

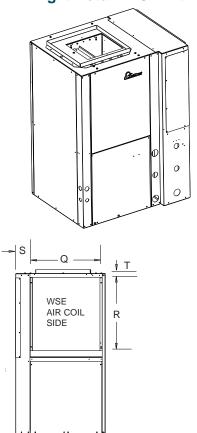




Notes:

- Units are shipped with air filter rails that are not suitable for supporting return air ductwork. An air filter frame with duct mounting collar is available as an accessory, see the Climate Master Accessory Submittal set for futher information on this frame.
- 2. Condensate drains are 3/4" FPT, both are internally trapped, externally vent both drains before joining.

Right Return TCV with WSE



- 3. Filters same size as standard unit.
- Factory supplied controller (aquastat) is shipped inside unit, open waterside economizer panel (WSP), remove, slide onto dinrail, and connect molex.
- WSE to unit piping to be field fabricated below or in front. Must leave room to remove front access panel(CCP) to service unit.

TC - Vertical Upflow - Dimensional Data

Water Connections - Standard Units

Vertic	al	0\	erall Cabir	net
Upflo		A	B	C
Mode		Width	Depth	Height
006 - 012	in	19.1	19.1	22.0
	cm	48.5	48.5	55.9
015 - 018	in	21.5	21.5	39.0
	cm	54.6	54.6	99.1
024 - 030,	in	21.5	21.5	40.0
041	cm	54.6	54.6	101.6
036 - 042	in	21.5	26.0	45.0
	cm	54.6	66.0	114.3
048 - 060	in	24.0	32.5	46.0
	cm	61.0	82.6	116.8

		Elect	rical Knocl	couts
Vert		J	K	L
Mod		1/2"	1/2"	3/4"
		Low Voltage	Low Voltage	Power Supply
006 - 012	in	2.9	5.9	8.9
	cm	7.3	14.9	22.5
015 - 060	in	4.1	7.1	10.1
	cm	10.5	18.1	25.7
041	in	3.1	7.1	11.1
	cm	7.9	18.0	28.2

Verti	cal	(D	(2	2)	(3	3						
Upfl Mod	ow	Loop	Loop	Loop Out	Loop Out	Cond	l. 3/4" PT	Loop In/Out					
		D	E	F	G	н	I	FPT					
006 - 012	in cm	1.4 3.6	1.6 4.1	9.5 24.1	1.6 4.3	6.1 15.6	1.6 4.1	1/2"					
015	in cm	1.9 4.8	1.4 3.6	13.8 35.1	1.4 3.6	8.1 20.6	1.4 3.6	1/2"					
018	in cm	1.9 4.8	1.4 3.6	12.9 32.8	1.4 3.6	8.1 20.6	1.4 3.6	1/2"					
024	in cm	1.9 4.8	1.4 3.6	13.8 35.1	1.4 3.6	8.1 20.6	1.4 3.6	3/4"					
030	in cm	1.9 4.8	1.4 3.6	15.2 38.6	1.4 3.6	8.1 20.6	1.4 3.6	3/4"					
036	in cm	1.9 4.8	1.4 3.6	15.7 39.9	1.4 3.6	8.1 20.6	1.4 3.6	3/4"					
041	in cm	3.6 4.8	2.3 5.8	14.0 35.6	2.3 5.8	8.1 20.6	2.3 5.8	3/4"					
042	in cm	1.9 4.8	1.4 3.6	16.6 42.0	1.4 3.6	8.1 20.6	1.4 3.6	3/4"					
048	in cm	1.9 4.8	1.4 3.6	16.6 42.2	1.4 3.6	8.1 20.6	1.4 3.6	1"					
060	in cm	1.9 4.8	1.4 3.6	17.2 43.7	1.4 3.6	8.1 20.6	1.4 3.6	1"					

Notes:

- While clear access to all removable panels is not required, installer should take care to comply with all building codes and allow adequate clearance for future field service.
- 2. Front & Side access is preferred for service access. However, all components may be serviced from the front access panel if side access is not available. (Except on TCV 009-030 and 041 with front return) Units with the front return require left side access for the fan.
- 3. Discharge flange is field installed.
- 4. Condensate is 3/4" FPT.
- 5. Units are shipped with air filter rails that are not suitable for supporting return air ductwork. An air filter frame with duct mounting collar is available as an accessory, see the ClimateMaster Accessory Submittal set for futher information on this frame.

Rec	Recommended Minimum Installation Clearances for Vertical Units*							
1"	Back of unit							
	Side opposite return air							
6"	Front if hard piped							
	Return Air Side							
	Ducted return							
1"	- ‡ *Add for duct width							
	- † Add 2" for 1" filter frame/rail or 3" for 2" filter frame/rail							
	Free (open) return - calculate required dimension for a maximum velocity of 600 fpm							

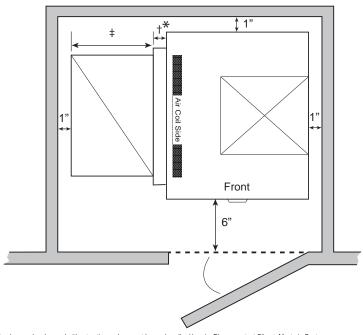
^{*}Field installed accessories (hoses, air cleaners, etc.) and factory WSE option will require additional space. Top supply air is shown, the same clearances apply to bottom supply air units.

Legend:

CCP = Control/Compressor Access Panel

BSP = Blower Service Panel

ASP = Alternative Service Panel



TC - Vertical Upflow – Dimensional Data

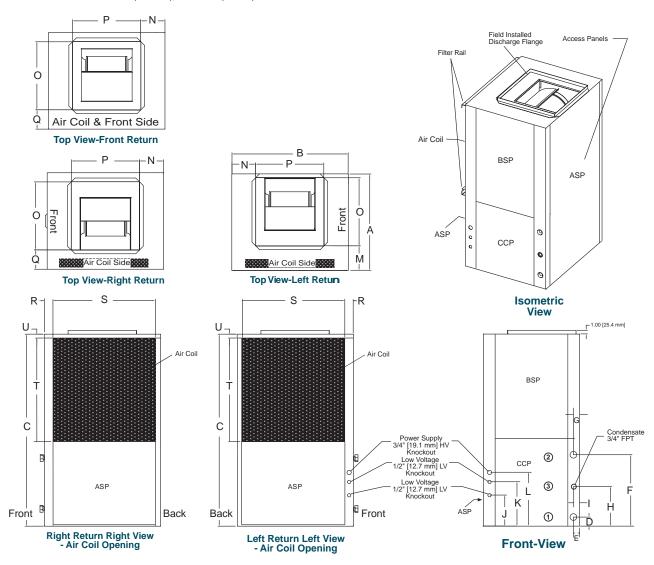
Vertical Model		Discharge Connection Duct Flange Installed (+/- 0.10 in, +/- 2.5mm)					Return Connection Using Return Air Opening			
		M	N	O Supply Width	P Supply Depth	Q	R	S Return Depth	T Return Height	U
006 - 012	in	8.9	5.1	9.0	9.0	5.5	2.1	16.2	9.9	0.7
	cm	22.7	12.9	22.9	22.9	14.0	5.3	41.1	25.1	1.9
015 - 018	in	6.4	3.8	14.0	14.0	5.3	2.3	18.3	20.9	0.7
	cm	16.1	9.5	35.6	35.6	13.6	5.8	46.5	53.1	1.9
024 - 030, *041	in	6.4	5.0	14.0	14.0	5.8	2.0	18.5	19.3	0.9
	cm	16.3	12.7	35.6	35.6	14.7	5.1	47.0	49.0	2.3
036 - 042	in	6.4	3.8	14.0	14.0	5.1	2.3	22.8	23.9	0.7
	cm	16.1	9.5	35.6	35.6	13.1	5.8	57.9	60.7	1.9
048 - 060	in	6.9	7.3	16.0	18.0	5.1	2.3	29.3	22.5	0.7
	cm	17.4	18.4	40.6	45.7	13.1	5.8	74.4	57.0	1.9

^{*} Size 041 units have unique M, N, Q dimensions due to the position of the blower assembly.

Front Return - N = 4.8 in (12.2 cm), Q = 6.4 in (16.3 cm).

Right Return - N = 3.8 in (9.7 cm), Q = 5.5 in (14.0 cm).

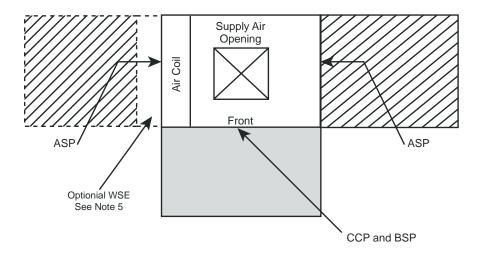
Left Return - M = 6.4 in (16.3 cm), N = 2.8 in (7.1 cm).



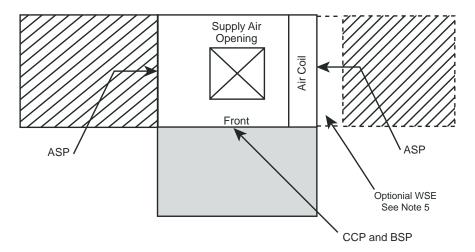
Units are shipped with air filter rails that are not suitable for supporting return air ductwork. An air filter frame with duct mounting collar is available as an accessory, see the ClimateMaster Accessory Submittal set for futher information on this frame.

Vertical Units

Left Return



Right Return



Notes:

- 1. While clear access to all removable panels is not required, installer should take care to comply with all building codes and allow adequate clearance for future field service.
- Front & Side access is preferred for service access. However, units without WSE option may be serviced from the front access panel if side access is not available.
- 3. ASP are removable panels that provide additional access to the units interior. Clear access to ASP panels is not required and they are not to be used in place of the mandatory CCP and BSP panels.
- 4. Front return units (not shown) require front access for controls/compressor and left side access for blower.
- 5. Units with WSE Must have access to water valve through side access panel.

= mandatory 2' service access
= (optional) additional 2' service acc

Legend:

CCP = Control/Compressor Access Panel

BSP = Blower Service Panel

ASP = Additional Service Panel (not required)

WSE = Waterside Economizer

Corner Weights for TCH Series Units

Model		Total	Left-Front*	Right-Front*	Left-Back*	Right-Back*
TCH006	Lbs	103	37	24	23	19
10000	kg	46.72	16.78	10.89	10.43	8.62
TCH009	Lbs	105	38	24	23	20
1011009	kg	47.63	17.24	10.89	10.43	9.07
TCH012	Lbs	114	42	26	25	21
1011012	kg	51.71	19.05	11.79	11.34	9.53
TCH015	Lbs	153	53	36	34	30
1011013	kg	69	24	16	15	14
TCH018	Lbs	158	55	37	35	31
101010	kg	72	25	17	16	14
TCH024	Lbs	174	62	40	39	33
1011024	kg	79	28	18	18	15
TCH030	Lbs	182	67	41	40	34
1011030	kg	83	30	19	18	15
TCH036	Lbs	203	75	47	44	37
1011030	kg	92	34	21	20	17
TCH042	Lbs	218	81	50	48	39
1011042	kg	99	37	23	22	18
TCH048	Lbs.	263	98	60	58	47
100040	kg	119	44	27	26	21
TCH060	Lbs.	278	94	59	56	69
10000	kg	126	43	27	25	31

^{*}Front is control box end.

Electrical Data - Standard Unit

Model	Voltage	Rated	Voltage Min/	Co	mpress	or	Fan Motor	Total Unit	Min Circuit	Max Fuse/
Model	Code	Voltage	Max	QTY	RLA	LRA	FLA	FLA	Amp	HACR
006	G	208/230/60/1	197/254	1	3.3	17.7	0.40	3.7	4.5	15
000	Е	265/60/1	239/292	1	2.9	13.5	0.40	3.3	4.0	15
009	G	208/230/60/1	197/254	1	4.5	22.2	0.92	5.4	6.5	15
009	Е	265/60/1	239/292	1	3.8	18.8	0.70	4.5	5.5	15
012	G	208/230/60/1	197/254	1	5.1	32.5	0.92	6.0	7.3	15
012	E	265/60/1	239/292	1	4.0	31.5	0.70	4.7	5.7	15
015	G	208/230/60/1	197/254	1	6.0	29.0	1.20	7.2	8.7	15
015	Е	265/60/1	239/292	1	5.4	28.0	0.86	6.3	7.6	15
010	G	208/230/60/1	197/254	1	7.2	33.0	1.20	8.4	10.2	15
018	E	265/60/1	239/292	1	5.9	28.0	0.86	6.8	8.2	15
	G	208/230/60/1	197/254	1	12.8	58.3	1.50	14.3	17.5	30
024	Е	265/60/1	239/292	1	9.6	54.0	1.30	10.9	13.3	20
024	Н	208/230/60/3	197/254	1	7.7	55.4	1.50	9.2	11.1	15
	F	460/60/3	414/506	1	3.6	28.0	0.76	4.4	5.3	15
	G	208/230/60/1	197/254	1	14.1	73.0	3.00	17.1	20.6	30
020	Е	265/60/1	239/292	1	11.2	60.0	2.70	13.9	16.7	25
030	Н	208/230/60/3	197/254	1	8.9	58.0	3.00	11.9	14.1	20
	F	460/60/3	414/506	1	4.2	28.0	1.70	5.9	7.0	15
	G	208/230/60/1	197/254	1	16.7	79.0	1.80	18.5	22.7	35
026	Е	265/60/1	239/292	1	13.5	72.0	2.00	15.5	18.9	30
036	Н	208/230/60/3	197/254	1	10.4	73.0	1.80	12.2	14.8	25
	F	460/60/3	414/506	1	5.8	38.0	1.24	7.0	8.5	15
	G	208/230/60/1	197/254	1	17.9	112.0	3.00	20.9	25.4	40
0.44	Н	208/230/30/3	197/294	1	13.2	88.0	3.00	16.2	19.5	30
041	F	460/60/3	414/506	1	6.0	44.0	1.70	7.7	9.2	15
	N	575/60/3	518/633	1	4.2	30.0	1.40	5.6	6.7	15
	G	208/230/60/1	197/254	1	17.9	112.0	3.00	20.9	25.4	40
0.40	Н	208/230/60/3	197/254	1	13.5	88.0	3.00	16.5	19.9	30
042	F	460/60/3	414/506	1	6.0	44.0	1.70	7.7	9.2	15
	N	575/60/3	518/633	1	4.9	34.0	1.40	6.3	7.5	15
	G	208/230/60/1	197/254	1	21.8	117.0	3.40	25.2	30.7	50
0.40	Н	208/230/60/3	197/254	1	13.7	83.1	3.40	17.1	20.5	30
048	F	460/60/3	414/506	1	6.2	41.0	1.80	8.0	9.6	15
	N	575/60/3	518/633	1	4.8	33.0	1.40	6.2	7.4	15
	G	208/230/60/1	197/254	1	26.3	134.0	4.90	31.2	37.8	60
0.50	Н	208/230/60/3	197/254	1	15.6	110.0	4.90	20.5	24.4	40
060	F	460/60/3	414/506	1	7.8	52.0	2.50	10.3	12.3	20
	N	575/60/3	518/633	1	5.8	38.9	1.90	7.7	9.2	15

All fuses Class RK-5

Electrical Data – High Static Blower

тс	Voltage	Voltage Rated	Voltage	Co	Compressor		Fan	Total Unit	Min Circuit	Max
Model	Code	Voltage	Min/Max	QTY	RLA	LRA	Motor FLA	FLA	Amp	Fuse/ HACR
015	G	208/230/60/1	197/254	1	6.0	29.0	1.20	7.2	8.7	15
015	E	265/60/1	239/292	1	5.4	28.0	0.86	6.3	7.6	15
018	G	208/230/60/1	197/254	1	7.2	33.0	1.50	8.7	10.5	15
010	E	265/60/1	239/292	1	5.9	28.0	1.30	7.2	8.7	15
	G	208/230/60/1	197/254	1	12.8	58.3	1.50	14.3	17.5	30
024	Е	265/60/1	239/292	1	9.6	54.0	1.30	10.9	13.3	20
024	Н	208/230/60/3	197/254	1	7.7	55.4	1.50	9.2	11.1	15
	F	460/60/3	414/506	1	3.6	28.0	0.76	4.4	5.3	15
	G	208/230/60/1	197/254	1	14.1	73.0	3.00	17.1	20.6	30
000	Е	265/60/1	239/292	1	11.2	60.0	2.70	13.9	16.7	25
030	Н	208/230/60/3	197/254	1	8.9	58.0	3.00	11.9	14.1	20
	F	460/60/3	414/506	1	4.2	28.0	1.70	5.9	7.0	15
	G	208/230/60/1	197/254	1	16.7	79.0	3.00	19.7	23.9	40
036	E	265/60/1	239/292	1	13.5	72.0	2.70	16.2	19.6	30
036	Н	208/230/60/3	197/254	1	10.4	73.0	3.00	13.4	16.0	25
	F	460/60/3	414/506	1	5.8	38.0	1.70	7.5	9.0	15
	G	208/230/60/1	197/254	1	17.9	112.0	3.00	20.9	25.4	40
042	Н	208/230/60/3	197/254	1	13.5	88.0	3.00	16.5	19.9	30
042	F	460/60/3	414/506	1	6.0	44.0	1.70	7.7	9.2	15
	N	575/60/3	518/633	1	4.9	34.0	1.40	6.3	7.5	15
	G	208/230/60/1	197/254	1	21.8	117.0	4.90	26.7	32.2	50
049	Н	208/230/60/3	197/254	1	13.7	83.1	4.90	18.6	22.0	35
048	F	460/60/3	414/506	1	6.2	41.0	2.50	8.7	10.3	15
	N	575/60/3	518/633	1	4.8	33.0	1.90	6.7	7.9	15
	G	208/230/60/1	197/254	1	26.3	134.0	5.80	32.1	38.7	60
000	Н	208/230/60/3	197/254	1	15.6	110.0	5.80	21.4	25.3	40
060	F	460/60/3	414/506	1	7.8	52.0	2.60	10.4	12.4	20
	N	575/60/3	518/633	1	5.8	38.9	2.30	8.1	9.6	15

All fuses Class RK-5

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TC	Voltage	Rated	Voltage	Co	mpress	or	Fan	Total	Min	Max
Model	Code	Voltage	Min/Max	RLA	LRA	QTY	Motor FLA	Unit FLA	Circuit Amp	Fuse/ HACR
015	G	208/230/60/1	197/254	6.0	29.0	1	2.70	8.7	10.2	15
015	E	265/60/1	239/292	5.4	28.0	1	2.10	7.5	8.9	15
018	G	208/230/60/1	197/254	7.2	33.0	1	2.70	9.9	11.7	15
010	Е	265/60/1	239/292	5.9	28.0	1	2.10	8.0	9.5	15
	G	208/230/60/1	197/254	12.8	58.3	1	3.90	16.7	19.9	30
024	Е	265/60/1	239/292	9.6	54.0	1	3.20	12.8	15.2	20
024	Н	208/230/60/3	197/254	7.7	55.4	1	3.90	11.6	13.5	20
	*F	*460/60/3	414/506	3.6	28.0	1	3.20	6.8	7.7	15
	G	208/230/60/1	197/254	14.1	73.0	1	3.90	18.0	21.5	35
030	E	265/60/1	239/292	11.2	60.0	1	3.20	14.4	17.2	25
030	Н	208/230/60/3	197/254	8.9	58.0	1	3.90	12.8	15.0	20
	*F	*460/60/3	414/506	4.2	28.0	1	3.20	7.4	8.5	15
	G	208/230/60/1	197/254	16.7	79.0	1	5.20	21.9	26.1	40
036	E	265/60/1	239/292	13.5	72.0	1	4.70	18.2	21.6	35
036	Н	208/230/60/3	197/254	10.4	73.0	1	5.20	15.6	18.2	25
	*F	*460/60/3	414/506	5.8	38.0	1	4.70	10.5	12.0	15
	G	208/230/60/1	197/254	17.9	112.0	1	5.20	23.1	27.6	45
042	Н	208/230/60/3	197/254	13.5	88.0	1	5.20	18.7	22.1	35
	*F	*460/60/3	414/506	6.0	44.0	1	4.70	10.7	12.2	15
	G	208/230/60/1	197/254	21.8	117.0	1	6.90	28.7	34.2	50
048	Н	208/230/60/3	197/254	13.7	83.1	1	6.90	20.6	24.0	35
	*F	*460/60/3	414/506	6.2	41.0	1	6.00	12.2	13.8	20
	G	208/230/60/1	197/254	26.3	134.0	1	6.90	33.2	39.8	60
060	Н	208/230/60/3	197/254	15.6	110.0	1	6.90	22.5	26.4	40
	*F	*460/60/3	414/506	7.8	52.0	1	6.00	13.8	15.8	20

^{* 460} volt units require a neutral connection. All "F" voltage units with ECM require a four wire power supply with neutral.

Motors are 265 volt and are wired between one hot leg and neutral.

All fuses Class RK-5

TC Series Wiring Diagram Matrix

All current diagrams can be located online at climatemaster.com. Click 'Commercial Professional' (go to 'Resources/literature/wiring diagrams' in the upper right), use part numbers below to lookup wiring diagrams

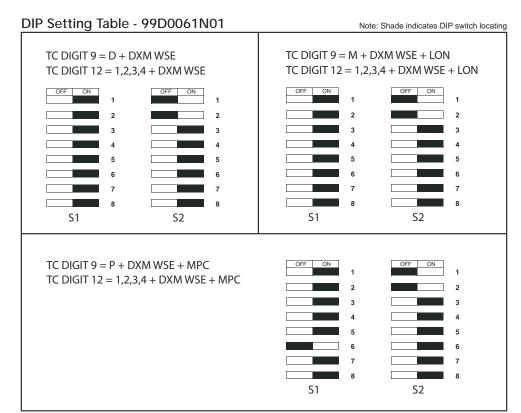
Model	Wiring Diagram Part Number	Electrical	Control	DDC	Fan Motor	
	96B0228N77			-		
	96B0228N81			LON	ECM	
	96B0228N79		CVAA	MPC		
	96B0228N01		CXM	-		
	96B0228N03			LON	PSC	
TC Series	96B0228N09	208/230/60/1		MPC		
Standard	96B0228N78	265/60/1		-		
	96B0228N82			LON	ECM	
	96B0228N80		DVM	MPC		
	96B0228N02		DXM	-		
	96B0228N04		LON	PSC		
	96B0228N10			MPC		
	96B0229N11			-		
	96B0229N13		CXM	LON	ECM	
	96B0229N16			MPC		
	96B0229N01			-		
	96B0229N03			LON	PSC	
TC Series	96B0229N06	209/220/60/2		MPC		
Standard	96B0229N12	208/230/60/3	DXM	-	ECM PSC	
	96B0229N14			LON		
	96B0229N17			MPC		
	96B0229N02			-		
	96B0229N04			LON		
	96B0229N07			MPC		
	96B0230N11			-		
	96B0230N13			LON	ECM	
	96B0230N18		CXM	MPC		
	96B0230N01		CXIVI	-		
	96B0230N03			LON	PSC	
TC Series	96B0230N08	460/60/3		MPC		
Standard	96B0230N12	460/60/3		-		
	96B0230N14			LON	ECM	
	96B0230N19		DVM	MPC		
	96B0230N02		DXM	-		
	96B0230N04			LON	PSC	
	96B0230N09			MPC		

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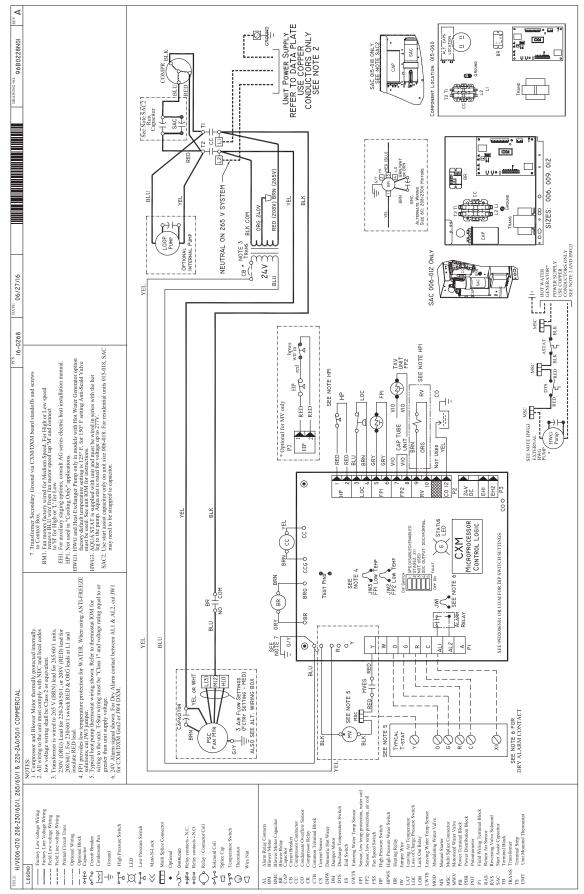
TC Series Wiring Diagram Matrix

Table Continued From Previous Page

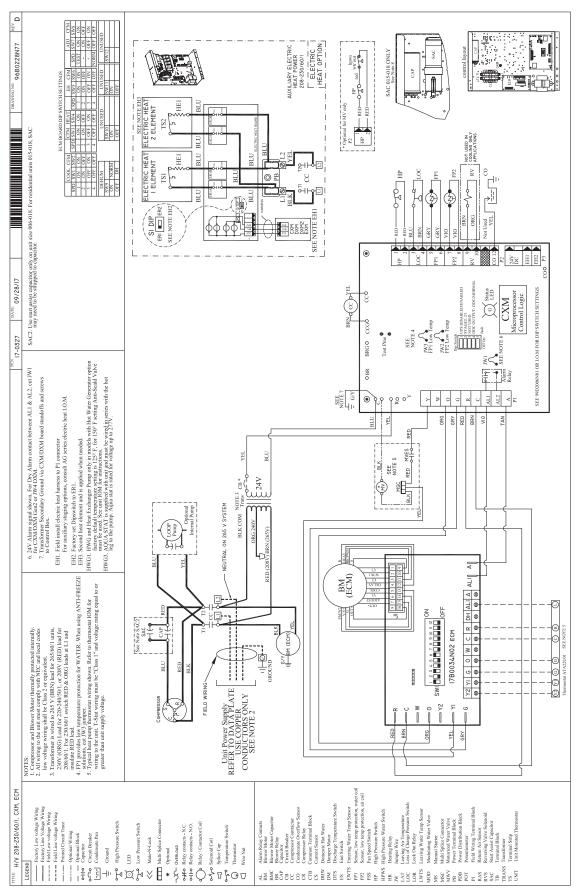
Model	Wiring Diagram Part Number	Electrical	Control	DDC	Fan Motor
	96B0300N05		CXM	-	ECM
	96B0300N01		CAIVI	-	PSC
TC with	96B0300N06			-	
TC with	96B0300N07	208/230/60/1		LON	ECM
WSE option	96B0300N08	265/60/1	DXM	MPC	
·	96B0300N02		DXM	-	
	96B0300N03			LON	PSC
	96B0300N04			MPC	
	96B0301N05		CVAA	-	ECM
	96B0301N01		CXM	-	PSC
	96B0301N06			-	ECM PSC
TC with WSE	96B0301N07	200/220/50/2		LON	
option	96B0301N08	208/230/60/3	DXM	MPC	
	96B0301N02			-	
	96B0301N03			LON	
	96B0301N04			MPC	
	96B0302N05		CXM	-	ECM
	96B0302N01		CXIVI	-	PSC
	96B0302N06			-	
TC with	96B0302N07	450/50/2		LON	ECM
WSE option	96B0302N08	460/60/3	DXM	MPC	
	96B0302N02		DXIVI	-	
	96B0302N03			LON	PSC
	96B0302N04			MPC	



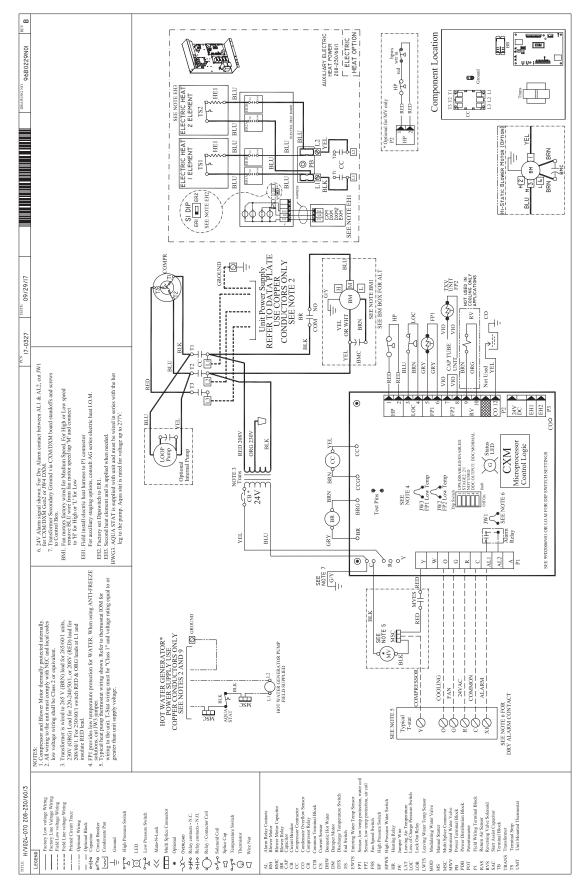
Typical Wiring Diagram – Single Phase TC Units with CXM Controller



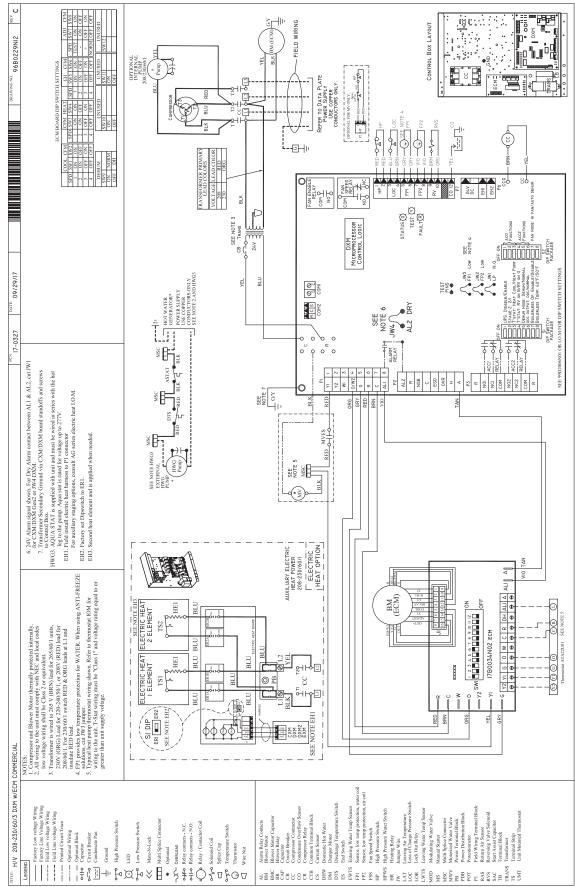
Typical Wiring Diagram – Single Phase TC Units with CXM Controller, ECM Blower



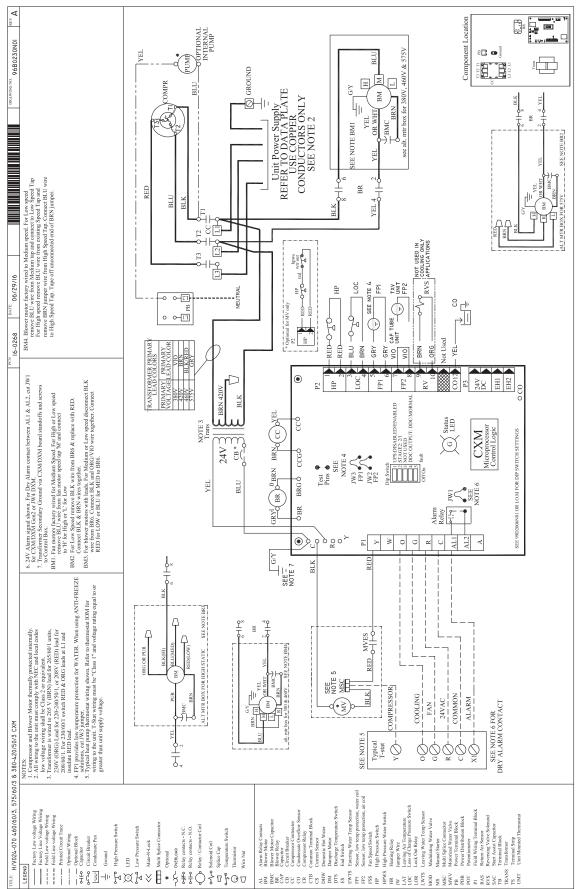
Typical Wiring Diagram – Three Phase 208/230V TC Units with CXM Controller



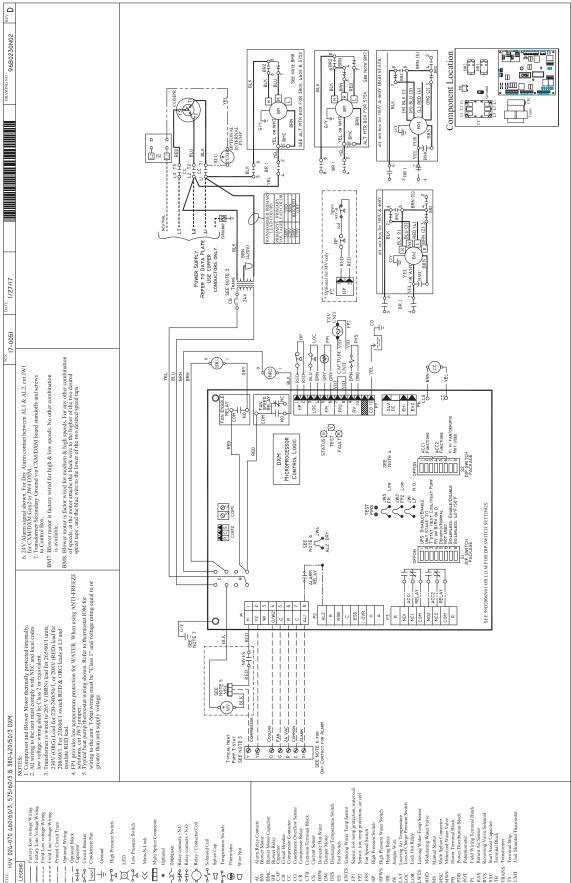
Typical Wiring Diagram – Three Phase 208/230V TC Units with DXM Controller



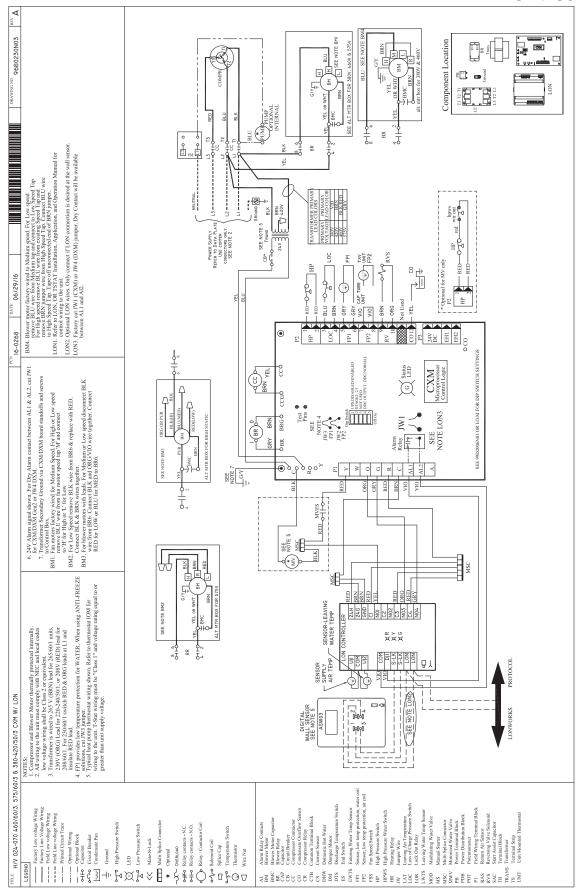
Typical Wiring Diagram – Three Phase 460/575V TC Units with CXM Controller



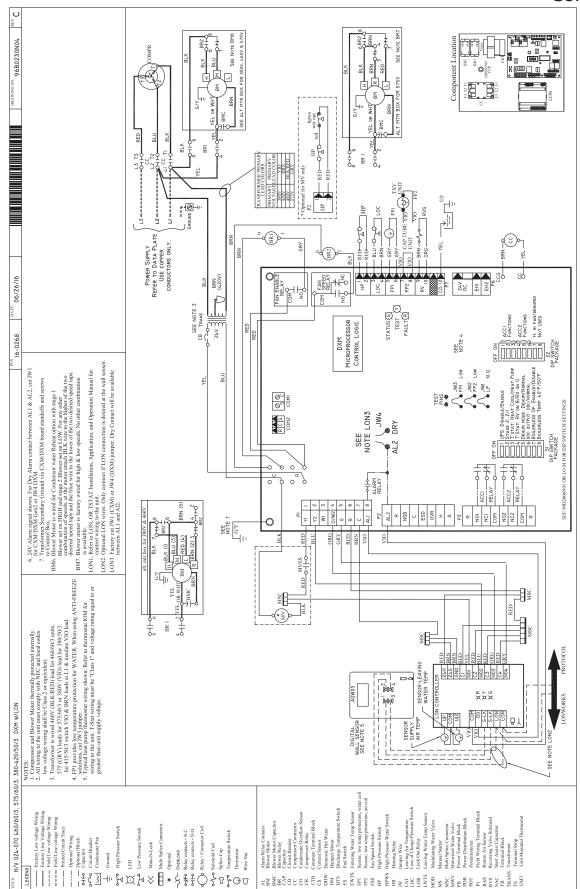
Typical Wiring Diagram – Three Phase 460/575V TC Units with DXM Controller



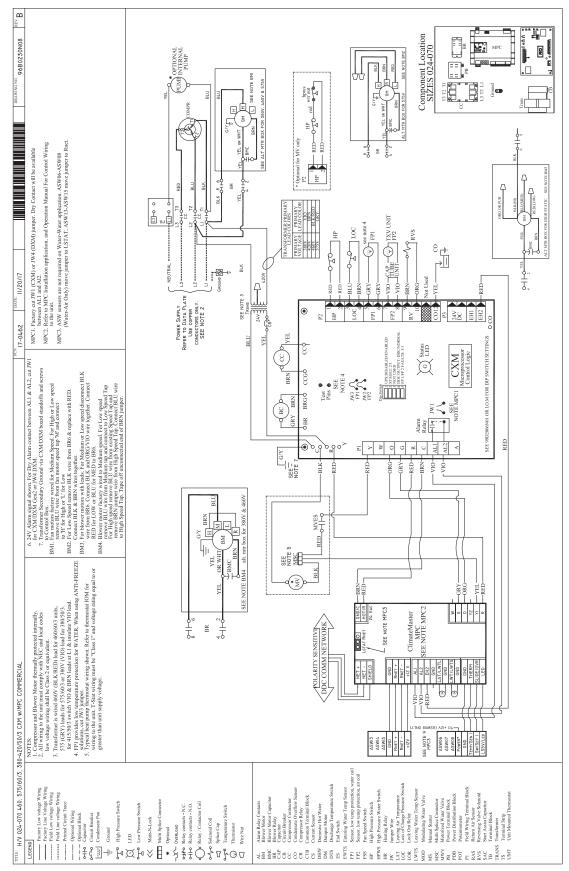
Typical Wiring Diagram – Three Phase 460/575V TC Units with CXM And LON Controller



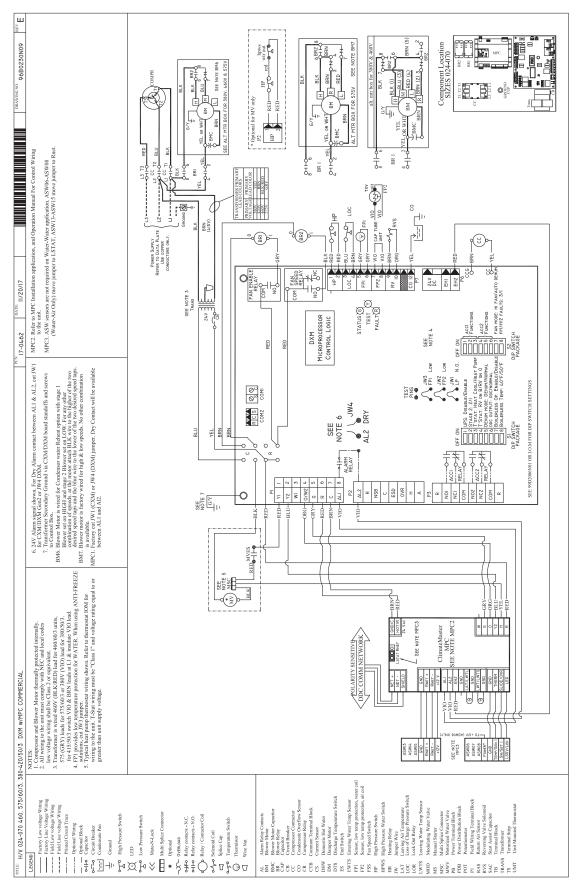
Typical Wiring Diagram – Three Phase 460/575V TC Units with DXM & LON Controller



Typical Wiring Diagram – Three Phase 460/575V TC Units with CXM & MPC Controller



Typical Wiring Diagram – Three Phase 460/575V TC Units with DXM & MPC Controller



General:

Furnish and install ClimateMaster Tranquility® "TC" Water Source Heat Pumps, as indicated on the plans. Equipment shall be completely assembled, piped and internally wired. Capacities and characteristics as listed in the schedule and the specifications that follow.

Units shall be supplied completely factory built capable of operating over an entering water temperature range from 20° to 120°F (-6.7° to 48.9°C) as standard. Equivalent units from other manufacturers may be proposed provided approval to bid is given 10 days prior to bid closing. 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 pass a factory acceptance test. The quality control system shall automatically perform the factory acceptance test via computer. A detailed report card from the factory acceptance test shall ship with each unit. Note: If unit fails the factory acceptance test it shall not be allowed to ship. Unit serial number will be recorded by factory acceptance test and furnished on report card for ease of unit warranty status.

Basic Construction:

Horizontal units shall have one of the following air flow arrangements: Left Inlet/Straight (Right) Discharge; Right Inlet/Straight (Left) Discharge; Left Inlet/Back Discharge; or Right Inlet/Back Discharge as shown on the plans. Units must have the ability to be field convertible from straight to back or back to straight discharge with no additional parts or unit structure modification. Horizontal units will have factory installed hanger brackets with rubber isolation grommets packaged separately.

Vertical units shall have one of the following airflow arrangements: Left Return/Top Discharge, Right Return/Top Discharge, as shown on the plans.

If units with these arrangements are not used, the contractor is responsible for any extra costs incurred by other trades. All units (horizontal and vertical) must have a minimum of two access panels for serviceability of compressor compartment. Units having only one access panel to compressor/heat exchangers/expansion device/refrigerant piping shall not be acceptable.

All interior surfaces shall be lined with 1/2 inch (12.7mm) thick, 1-1/2 lb/ft3 (24 kg/m3) acoustic type glass fiber insulation. Insulation placement shall be designed in a manner that will eliminate any exposed edges to prevent the introduction of glass fibers into the air stream.

The heat pumps shall be fabricated from heavy gauge galvanized steel.

Standard cabinet panel insulation must meet NFPA 90A 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. **Unit insulation must meet these stringent requirements or unit(s) will not be accepted.**

All horizontal units to have factory installed 1" (25.4mm) discharge air duct collars, 1" (25.4mm) filter rails with 1" (25.4mm) filters factory installed, and factory installed unit-mounting brackets. Vertical units to have field installed discharge air duct collar, shipped loose and 1" (25.4mm) filter rails with 1" (25.4mm) filters factory installed. If units with these factory installed provisions are not used, the contractor is responsible for any extra costs to field install these provisions, and/or the extra costs for his subcontractor to install these provisions.

All units must have an insulated panel separating the fan compartment from the compressor compartment. Units with the compressor

in the air stream are not acceptable. Units shall have factory installed 1 inch (25.4mm) wide filter rails for filter removal from either side. Units shall have a 1 inch (25.4mm) thick throwaway type glass fiber filter. The contractor shall purchase one spare set of filters and replace factory shipped filters on completion of start-up. Filters shall be standard sizes. If units utilize non-standard filter sizes then the contractor shall provide 12 spare filters for each unit.

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 FPT fittings. All water connections and electrical knockouts must be in the compressor compartment corner post as to not interfere with the serviceability of unit. Contractor shall be responsible for any extra costs involved in the installation of units that do not have this feature. Contractor must ensure that units can be easily removed for servicing and coordinate locations of electrical conduit and lights with the electrical contractor.

Option: Contractor shall install 2-inch (50.8mm) filter frame with removable access door and 2 inch (50.8mm) Glass Fiber throwaway filters on all units.

Option: UltraQuiet package shall consist of discharge muffler (except rotary compressors), and sound attenuating material applied to the fan housing.

Option: The unit shall be supplied with extended range insulation option, which adds closed cell insulation to internal water lines, and provides insulation on suction side refrigeration tubing including refrigerant to water heat exchanger.

Option: The unit shall be supplied with Waterside Economizer (WSE). The WSE will consist of hydronic coil, 3 way valve, and aquastat. Aquastat will be adjustable type and factory set at 45° F (72° C). Units with WSE will require heat pump thermostat with 2 stages of cooling.

Fan and Motor Assembly:

Blower shall have inlet rings to allow removal of wheel and motor from one side without removing housing. Units shall have a direct-drive centrifugal fan. The fan motor shall be 3-speed (2-speed for 575V), permanently lubricated, PSC type, with internal thermal overload protection. Units supplied without permanently lubricated motors must provide external oilers for easy service. The fan motor on small and medium size units (006-042) shall be isolated from the fan housing by a torsionally flexible motor mounting system with rubber type grommets to inhibit vibration induced high noise levels associated with "hard wire belly band" motor mounting. The fan motor on larger units (048 & 060) shall be isolated with flexible rubber type isolation grommets only. The fan and motor assembly must be capable of overcoming the external static pressures as shown on the schedule. Airflow/Static pressure rating of the unit shall be based on a wet coil and a clean filter in place.

Option: High static motors (Sizes 015-060)

Option: ECM motors (sizes 015 to 060 except 041): ECM variable speed ball bearing type motor. The ECM fan motor shall provide a soft low noise fan start by ramping fan up to full selected speed over a 30 second period, and slowly ramp down fan at the end of each blower cycle, maintain constant CFM, maximize motor efficiency over its static operating range, and provide airflow adjustment in multiple CFM increments via a separate microprocessor board. The fan motor shall be isolated from the housing by rubber grommets. The motor shall be permanently lubricated and have thermal overload protection. A special dehumidification mode shall be provided to allow lower airflows in cooling for better dehumidification. The dehumidification mode may be constant or automatic (humidistat controlled). ECM motors without controlled ramp up and ramp down features, with constant CFM speed taps, or with no microprocessor controller are not acceptable.

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Service Department at 1-405-745-6000 for specific information on the current design and specifications. Statement		nd do not form the basis of any bargain between the parties,
but are merely ClimateMaster's opinion or commendation of its products. The latest version of this document is a	vailable at climatemaster.com.	
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Refrigerant Circuit:

All units shall contain an EarthPure® (HFC-410A) sealed refrigerant circuit including a high efficiency scroll or rotary compressor designed for heat pump operation, a thermostatic expansion valve for refrigerant metering, an enhanced corrugated aluminum lanced fin and rifled copper tube refrigerant to air heat exchanger, reversing valve, coaxial (tube in tube) refrigerant to water heat exchanger, and safety controls including a high pressure switch, low pressure (loss of charge) switch, water coil low temperature sensor, and air coil low temperature sensor. Access fittings shall be factory installed on high and low pressure refrigerant lines to facilitate field service. Activation of any safety device shall prevent compressor operation via a microprocessor lockout circuit. The lockout circuit shall be reset at the thermostat or at the contractor supplied disconnect switch. Units that cannot be reset at the thermostat shall not be acceptable.

The compressor shall have a dual level vibration isolation system. The compressor will be mounted on specially engineered sound-tested EPDM vibration isolation grommets or springs to a large heavy gauge compressor mounting plate, which is then isolated from the cabinet base with rubber grommets for maximized vibration attenuation. Compressor shall have thermal overload protection. Compressor shall be located in an insulated compartment away from air stream to minimize sound transmission.

Refrigerant to air heat exchangers shall utilize enhanced corrugated lanced aluminum fins and rifled copper tube construction rated to withstand 625 PSIG (4309 kPa) refrigerant working pressure. Refrigerant to water heat exchangers shall be of copper inner water tube and steel refrigerant outer tube design, rated to withstand 625 PSIG (4309 kPa) working refrigerant pressure and 500 PSIG (3445 kPa) working water pressure. The refrigerant to water heat exchanger shall be "electro-coated" with a low cure cathodic epoxy material a minimum of 0.4 mils thick (0.4 – 1.5 mils range) on all surfaces. The black colored coating shall provide a minimum of 1000 hours salt spray protection per ASTM B117-97 on all external steel and copper tubing. The material shall be formulated without the inclusion of any heavy metals and shall exhibit a pencil hardness of 2H (ASTM D3363-92A), crosshatch adhesion of 4B-5B (ASTM D3359-95), and impact resistance of 160 in-lbs (184 kg-cm) direct (ASTM D2794-93).

Refrigerant metering shall be accomplished by thermostatic expansion valve only. Expansion valves shall be dual port balanced type with external equalizer for optimum refrigerant metering. Units shall be designed and tested for operating ranges of entering water temperatures from 20° to 120°F (-6.7° 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. If the reversing valve solenoid defaults to cooling mode, an additional low temperature thermostat must be provided to prevent over-cooling an already cold room.

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

Drain Pan:

The drain pan shall be constructed of galvanized steel and have a powder coat paint application to further inhibit corrosion. This corrosion protection system shall meet the stringent 1000 hour salt spray test per ASTM B117. If plastic type material is used, it must be HDPE (High Density Polyethylene) to avoid thermal cycling shock stress failure over the lifetime of the unit. Drain pan shall be fully insulated. Drain outlet shall be located at pan as to allow unobstructed drainage of condensate. Drain outlet for horizontal units shall be connected from pan directly to FPT fitting. No hidden internal tubing extensions from pan outlet extending to unit casing (that can create drainage problems) will be accepted. The unit as standard will be supplied with solid-state electronic condensate overflow protection. Mechanical float switches will NOT be accepted.

Vertical units shall be furnished with a PVC FPT condensate drain connection and an internal factory installed condensate trap. If units without an internal trap are used, the contractor is responsible for any extra costs to field install these provisions, and/ or the extra costs for his sub-contractor to install these provisions.

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Option: The unit shall be supplied with stainless steel drain pan.

Electrical:

A control box shall be located within the unit compressor compartment and shall contain a 50VA transformer, 24 volt activated, 2 or 3 pole compressor contactor, terminal block for thermostat wiring and solid-state controller for complete unit operation. Reversing valve and fan motor wiring shall be routed through this electronic controller. 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.

Solid State Control System (CXM):

Units shall have a solid-state control system. **Units utilizing electro-mechanical control shall not be acceptable.** 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 thermostat. The control system shall have the following features:

- a Anti-short cycle time delay on compressor operation.
- b. Random start on power up mode.
- c. Low voltage protection.
- d. High voltage protection.
- e. Unit shutdown on high or low refrigerant pressures.
- f. Unit shutdown on low water temperature.
- g. Condensate overflow electronic protection.
- h. Option to reset unit at thermostat or disconnect.
- i. Automatic intelligent reset. Unit shall automatically reset the unit 5 minutes after trip if the fault has cleared. If a fault occurs 3 times sequentially without thermostat meeting temperature, then lockout requiring manual reset will occur.
- j. Ability to defeat time delays for servicing.
- k. Light emitting diode (LED) on circuit board to indicate high pressure, low pressure, low voltage, high voltage, low water/air temperature cut-out, condensate overflow, and control voltage status.
- I. The low-pressure switch shall not be monitored for the first 120 seconds after a compressor start command to prevent nuisance safety trips.
- m. 24V output to cycle a motorized water valve or other device with compressor contactor.
- n. Unit Performance Sentinel (UPS). The UPS warns when the heat pump is running inefficiently.
- o. Water coil low temperature sensing (selectable for water or anti-freeze).
- p. Air coil low temperature sensing.

NOTE: Units not providing the 8 safety protections of anti-short cycle, low voltage, high voltage, high refrigerant pressure, low pressure (loss of charge), air coil low temperature cut-out, water coil low temperature cut-out, and condensate overflow protections will not be accepted.

Option: Enhanced solid state control system (DXM):

This control system features two stage control of cooling and two stage control of heating modes for exacting temperature and dehumidification purposes.

This control system coupled with a multi-stage thermostat will better dehumidify room air by automatically running the heat pump's fan at lower speed on the first stage of cooling thereby implementing low sensible heat ratio cooling. On the need for higher cooling performance the system will activate the second stage of cooling and automatically switch the fan to the higher fan speed setting. This system may be further enhanced with a humidistat. Units not having automatic low sensible heat ratio cooling will not be accepted; as an alternate a hot gas reheat coil may be provided with control system for automatic activation.

Control shall have all of the above mentioned features of the CXM control system along with the following expanded features:

- a. Removable thermostat connector.
- b. Night setback control.
- c. Random start on return from night setback.

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- d. Minimized reversing valve operation (Unit control logic shall only switch the reversing valve when cooling is demanded for the first time. The reversing valve shall be held in this position until the first call for heating, ensuring quiet operation and increased valve life.).
- e. Override temperature control with 2-hour timer for room occupant to override setback temperature at the thermostat.
- f. Dry contact night setback output for digital night setback thermostats.
- g. Ability to work with heat pump or heat/cool (Y, W) type thermostats.
- h. Ability to work with heat pump thermostats using O or B reversing valve control.
- Emergency shutdown contacts.
- j. Boilerless system heat control at low loop water temperature.
- k. Ability to allow up to 3 units to be controlled by one thermostat.
- I. Relay to operate an external damper.
- m. Ability to automatically change fan speed from multistage thermostat.
- n. Relay to start system pump.
- o. 75 VA control transformer. Control transformer shall have load side short circuit and overload protection via a built in circuit breaker.

Digital Night Setback with Pump Restart (DXM w/ ATP32U03/04)

The unit will be provided with a Digital Night Setback feature using an accessory relay on the DXM controller with an ATP32U03/04 thermostat and an external, field-provided time clock. The external time clock will initiate and terminate the night setback period. The thermostat will have a night setback override feature with a programmable override time period.

An additional accessory relay on the unit DXM controller will energize the building loop pump control for the duration of the override period. (Note: this feature requires additional low voltage wiring. Consult Application Drawings for details.)

Remote Service Sentinel (CXM/DXM)

Solid state control system shall communicate with thermostat to display (at the thermostat) the unit status, fault status, and specific fault condition, as well as retrieve previously stored fault that caused unit shutdown. The Remote Service Sentinel allows building maintenance personnel or service personnel to diagnose unit from the wall thermostat. The control board shall provide a signal to the thermostat fault light, indicating a lockout. Upon cycling the G (fan) input 3 times within a 60 second time period, the fault light shall display the specific code as indicated by a sequence of flashes. A detailed flashing code shall be provided at the thermostat LED to display unit status and specific fault status such as over/under voltage fault, high pressure fault, low pressure fault, low water temperature fault, condensate overflow fault, etc. **Units that do not provide this remote service sentinel shall not be acceptable.**

Option: Lonworks interface system

Units shall have all the features listed above (either CXM or DXM) and the control board will be supplied with a LONWORKS interface board, which is LONMark certified. This will permit all units to be daisy chained via a 2-wire twisted pair shielded cable. The following points must be available at a central or remote computer location:

- a. Space temperature
- b. Leaving water temperature
- c. Discharge air temperature
- d. Command of space temperature setpoint
- e. Cooling status
- f. Heating status
- g. Low temperature sensor alarm
- h. Low pressure sensor alarm
- i. High pressure switch alarm
- j. Condensate sensor alarm
- k. Hi/low voltage alarm
- I. Fan "ON/AUTO" position of space thermostat as specified above
- m. Unoccupied/occupied command
- n. Cooling command
- o. Heating command
- p. Fan "ON/AUTO" command
- q. Fault reset command
- r. Itemized fault code revealing reason for specific shutdown fault (any one of 7)

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This option also provides the upgraded 75VA control transformer with load side short circuit and overload protection via a built in circuit breaker.

Option: MPC (Multiple Protocol Control) interface system

Units shall have all the features listed above (either CXM or DXM) and the control board will be supplied with a Multiple Protocol interface board. Available protocols are BACnet MS/TP, Modbus, or Johnson Controls N2. The choice of protocol shall be field selectable/changeable via the use of a simple selector switch. **Protocol selection shall not require any additional programming or special external hardware or software tools.** This will permit all units to be daisy chain connected by a 2-wire twisted pair shielded cable. The following points must be available at a central or remote computer location:

- a. Space temperature
- b. Leaving water temperature
- c. Discharge air temperature
- d. Command of space temperature setpoint
- e. Cooling status
- f. Heating status
- g. Low temperature sensor alarm
- h. Low pressure sensor alarm
- i. High pressure switch alarm
- j. Condensate overflow alarm
- k. Hi/low voltage alarm
- I. Fan "ON/AUTO" position of space thermostat as specified above
- m. Unoccupied/occupied command
- n. Cooling command
- o. Heating command
- p. Fan "ON/AUTO" command
- q. Fault reset command
- r. Itemized fault code revealing reason for specific shutdown fault (any one of 7)

This option also provides the upgraded 75VA control transformer with load side short circuit and overload protection via a built in circuit breaker.

Warranty:

ClimateMaster shall warranty equipment for a period of 12 months from start up or 18 months from shipping (which ever occurs first).

Option: Extended 4-year compressor warranty covers compressor for a total of 5 years.

Option: Extended 4-year refrigeration circuit warranty covers coils, reversing valve, expansion valve and compressor for a total of 5 years.

Option: Extended 4-year control board warranty covers the CXM/DXM control board for a total of 5 years.

FIELD INSTALLED OPTIONS

Hose Kits:

All units shall be connected with hoses. The hoses shall be 2 feet (61cm) long, braided stainless steel; fire rated hoses complete with adapters. Only fire rated hoses will be accepted.

Valves:

The following valves are available and will be shipped loose:

- a. Ball valve; bronze material, standard port full flow design, FPT connections.
- b. Ball valve with memory stop and PT port.

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- c. "Y" strainer with blowdown valve; bronze material, FPT connections.
- d. Motorized water valve; slow acting, 24v, FPT connections.

Hose Kit Assemblies:

The following assemblies ship with the valves already assembled to the hose described:

- a. Supply and return hoses having ball valve with PT port.
- b. Supply hose having ball valve with PT port; return hose having automatic flow regulator valve with PT ports, and ball valve.
- c. Supply hose having "Y" strainer with blowdown valve, and ball valve with PT port; return hose having automatic flow regulator with PT ports, and ball valve.
- d. Supply hose having "Y" strainer with blowdown valve, and ball valve with PT port; return hose having ball valve with PT port.

Thermostats:

The thermostat shall be a ClimateMaster mechanical or electronic type thermostat as selected below with the described features:

- a. <u>Single Stage Standard Manual Changeover (ATM11C11)</u>
 Thermostat shall be a single-stage, horizontal mount, manual changeover with HEAT-OFF-COOL system switch and fan ON-AUTO switch. Thermostat shall have a mechanical temperature setpoint indicator. Thermostat shall only require 4 wires for connection. Mercury bulb thermostats are not acceptable.
- b. <u>Single Stage Digital Auto or Manual Changeover (ATA11U01)</u>
 Thermostat shall be a single-stage, digital, auto or manual changeover with HEAT-OFF-COOL-AUTO system switch and fan ON-AUTO switch. Thermostat shall have an LCD display with temperature and setpoint(s) in °F or °C. The Thermostat shall provide permanent memory of setpoint(s) without batteries. A fault LED shall be provided to display specific fault condition. Thermostat shall provide temperature display offset for custom applications.
- c. Single Stage Digital Automatic or Manual Changeover with Two-Speed Fan Control (ATA11C04) DXM and PSC Fan required Thermostat shall be a single-stage, digital, auto or manual changeover with HEAT-OFF-COOL-AUTO system switch, fan ON-AUTO switch, and fan LO-HI switch. Thermostat shall have an LCD display with temperature and setpoint(s) in °F or °C. A fault LED shall be provided to display specific fault condition. Thermostat shall allow use of an accessory remote temperature sensor (AST009), but may be operated with internal sensor via orientation of a jumper.
- d. Multistage Digital Automatic Changeover (ATA22U01)
 - Thermostat shall be multi-stage (2H/2C), manual or automatic changeover with HEAT-OFF-COOL-AUTO-EM HEAT system settings and fan ON-AUTO settings. Thermostat shall have an LCD display with temperature, setpoint(s), mode, and status indication. The temperature indication shall be selectable for °F or °C. The thermostat shall provide permanent memory of setpoint(s) without batteries. A fault LED shall be provided to indicate specific fault condition(s). Thermostat shall provide temperature display offset for custom applications. Thermostat shall allow unit to provide better dehumidification with optional DXM controller by automatically using lower fan speed on stage 1 cooling (higher latent cooling) as main cooling mode, and automatically shifting to high speed fan on stage 2 cooling.
- e. <u>Multistage Manual Changeover Programmable 5/2 Day (ATP21U01)</u>
 Thermostat shall be 5 day/2 day programmable (with up to 4 setpoints per day), multi-stage (2H/1C), manual changeover with HEAT-OFF-COOL-EM HEAT system settings and fan ON-AUTO settings. Thermostat shall have an LCD display with temperature, setpoint(s), mode, and status indication. The temperature indication shall be selectable for °F or °C. The thermostat shall provide permanent memory of setpoint(s) without batteries. Thermostat shall provide convenient override feature to temporarily change setpoint.
- f. Multistage Automatic or Manual Changeover Programmable 7 Day (ATP32U03)

 Thermostat shall be 7 day programmable (with up to 4 setpoints per day), multi-stage (3H/2C), automatic or manual changeover with HEAT-OFF-COOL-AUTO-EM HEAT system settings and fan ON-AUTO settings. Thermostat shall have a blue backlit dot matrix LCD display with temperature, setpoints, mode, and status indication. The temperature indication shall be selectable for °F or °C. Time display shall be selectable for 12 or 24-hour clock. Fault identification shall be provided (when used with ClimateMaster CXM or DXM controls) to simplify troubleshooting by providing specific unit fault at the thermostat with red backlit LCD during unit lockout. The thermostat shall provide permanent memory of setpoints without batteries. Thermostat shall provide heating setpoint range limit, cooling setpoint range limit, temperature display offset, keypad lockout, dead-band range setting, and inter-stage differential settings. Thermostat shall provide progressive recovery to anticipate time required to bring space temperature to the next programmed event. Thermostat shall provide an installer setup for configuring options and for setup of servicing contractor name and contact information. Thermostat shall allow the use of an accessory remote and/or outdoor temperature sensor (AST008). Thermostat navigation shall be

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accomplished via five buttons (up/down/right/left/select) with menu-driven selections for ease of use and programming

g. Multistage Automatic or Manual Changeover Programmable 7 Day with Humidity Control (ATP32U04)
Thermostat shall be 7 day programmable (with up to 4 setpoints per day), multi-stage (3H/2C), automatic or manual changeover with HEAT-OFF-COOL-AUTO-EM HEAT system settings and fan ON-AUTO settings. Separate dehumidification and humidification setpoints shall be configurable for discreet outputs to a dehumidification option and/or an external humidifier. Installer configuration mode shall allow thermostat dehumidification mode to operate with ClimaDry® reheat or with ECM fan dehumidification mode via settings changes. Thermostat shall have a blue backlit dot matrix LCD display with temperature, relative humidity, setpoints, mode, and status indication. The temperature indication shall be selectable for °F or °C. Time display shall be selectable for 12 or 24 hour clock. Fault identification shall be provided (when used with ClimateMaster CXM or DXM controls) to simplify troubleshooting by providing specific unit fault at the thermostat with red backlit LCD during unit lockout. The thermostat shall provide permanent memory of setpoints without batteries. Thermostat shall provide heating setpoint range limit, cooling setpoin trange limit, temperature display offset, keypad lockout, dead-band range setting, and inter-stage differential settings. Thermostat shall provide progressive recovery to anticipate time required to bring space temperature to the next programmed event. Thermostat shall provide an installer setup for configuring options and for setup of servicing contractor name and contact information. Thermostat shall allow the use of an accessory remote and/or outdoor temperature sensor (AST008). Thermostat navigation shall be accomplished via five buttons (up/down/right/left/select) with menu-driven selections for ease of use and programming.

DDC Sensors:

ClimateMaster wall mounted DDC sensor to monitor room temperature and interfaces with optional interface system described above. Several types as described below:

- a. Sensor only with no display (LON and MPC).
- b. Sensor with override (LON only).
- c. Sensor with setpoint adjustment and override (MPC only).
- d. Sensor with setpoint adjustment and override, LCD display, status/fault indication (LON and MPC).

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SUBMITTAL DATA - S-I UNITS	
Unit Designation:	
Job Name:	
Architect:	
Engineer:	
Contractor:	
PERFORMANCE DATA	
Cooling Capacity:	kW
EER:	
Heating Capacity:	kW
COP:	
Ambient Air Temp:	°C
Entering Water Temp (Clg):	
Entering Air Temp (Clg):	°C
Entering Water Temp (Htg):	°C
Entering Air Temp (Htg):	°C
Airflow:	1/5
Fan Speed or Motor/RPM/Turns:	
Operating Weight:	(kg)
ELECTRICAL DATA	
Power Supply:	Volts
Phase	Hz
Minimum Circuit Ampacity:	
Maximum Overcurrent Protection:	

Unit Designation:	
Job Name:	
Architect:	
Engineer:	
Contractor:	
PERFORMANCE DATA	
Cooling Capacity:	Btuh
EER:	
Heating Capacity:	Btuh
COP:	
Ambient Air Temp:	°F
Entering Water Temp (Clg):	°F
Entering Air Temp (Clg):	
Entering Water Temp (Htg):	
Entering Air Temp (Htg):	
Airflow:	CFM
Fan Speed or Motor/RPM/Turns:	
Operating Weight:	(lb
ELECTRICAL DATA	
Power Supply:	Volts
Phase	Hz
Minimum Circuit Ampacity:	

Notes

Revision History

Date:	Item:	Action:
4/2/18	Unit photos	Changed unit photos from black to steel color
03/8/18	Page 71	Update Text
11/14/17	Page 43	Updated dimensions D, F, O
11/2/17	Page 58	Added WSE DIP setting table
10/6/17	Page 54	Edit size 015 'E' FLA, MCA
1/30/17	Page 48,49,52	Update WSE Notes
11/4/16	Page 7	Updated 018 awhp rating
11/1/16	Update Document Design	Updated
07/1/16	Page 20,22,25,27,29	Updated Nominal Airflow
06/23/16	All	Updated cabinet photo and description
05/16/16	Table Udates	Updated
10/6/16	Pages 14,18,22,25,27,69	Update Airflow, Heat of rejection, ECM option text
9/27/16	Pages 44,45,48	Corrected TCH Left Hand WSE 048-060 Dim Q
9/7/16	Page 53, cover	updated size 041 voltage codes and cabinet photo
4/20/16	All	Msc. text and wiring diagram updates
4/8/16	Page 8	Update performance data tc009 COP
02/25/16	Page 65 & 66	Updated run test and ECM blower description
02/18/16	Pages 39 & 40	Update Text
11/30/15	Various	Adding WSE to TCH and TCV
10/22/15	Page 25	Updated heating data
08/31/15	Page 7	Revision Level Corrected
07/31/15	Engineering Specifications and Unit Features	Updated, ECM Options Text, Edited Compressors Mount Text
04/29/15	Page 41	Updated Notes
03/03/15	Page 16	Updated 018 ECM Performance Data
02/06/15	Page 7	Changed E-Coated to Tin-Plated
02/03/15	All	Updated Rated Airflows ECM
01/21/15	Engineering Specifications	Added ECM Option Text
01/15/15	Pages 39 & 43	Updated Diagram; Added Text
01/05/15	ECM Blower Option	Added

Revision History

Date:	Item:	Action:
06/14/17	Page 41	Update drawing
09/30/14	Text Edit - Page 47	Updated
07/15/14	Page 18	Added WPD
06/16/14	Pages 4, 8 & 46	Updated Text & Table
05/29/14	Physical Data Table	Removed Fan Motor (hp)
05/12/14	Physical Data Table	Updated Ref. Charge 024 and Unit Maximum Working Water Pressure
02/11/13	Unit Features	Updated
02/06/13	TCV041 M, N, Q Dimensions page 30	Updated
02/04/13	TCV Right Return Electrical Tables TCH060 Corner Weights	Updated Blower Orientation Miscellaneous Edits Corrected
09/27/12	Recommended Minimum Installation Clearances for Vertical Units *	Added
05/02/12	Size 041	ISO Table Updated
04/30/12	Horizontal Dimensional Data Table	Updated
02/20/12	Engineering Specifications	Updated
01/23/12	Size 041	Added
09/19/11	Size 024	Added "H" and "F" Voltage
08/09/11	Unit Maximum Working Water Pressure	Updated to Reflect New Safeties
08/03/11	Engineering Specifiations	Added Digital Night Setback with Pump Restart (DXM w/ AT- P32U03/04)
06/17/11	Coated Air Coil Option	Changed Description
04/07/11	Engineering Specification NOTICE	Updated
02/11/11	Performance Data Selection Notes	Updated
01/03/11	Format - All Pages	Updated
09/28/10	Engineering Specifications	Updated
09/28/10	Physical Data Table	Updated-Added Coax Volume Data
09/01/10	012 'E' Airflow Correction Table	Added/Corrected
07/26/10	Wiring Diagrams	Updated
07/26/10	Compressor Mounting Information and Graphics Engineering Specifications	Updated to Reflect Spring/Grommet Change
06/11/10	Format - All Pages	Updated
06/11/10	Engineering Specifiations	Updated
04/23/10	Updated (Page 1) of Engineering Specifications	Paragraph edit to update ARI to AHRI
04/22/10	LEED®, Tranquility® 16, EarthPure®	Updated format (® ™ etc)
09/25/09	Performance Data Selection Notes	Example Updated
09/09/09	Engineering Specification - Fan 2 Motor Assembly	Changed 'dry' to 'wet'
09/09/09	Engineering Specification - Thermostat	Changed ATP32U01, 02 to 03, 04
09/03/09	Fan and Motor Assembly Engineering Spec.	Changed 'dry' to 'wet'
09/03/09	Thermostat Engineering Spec.	Removed ATP11N01, Changed ATP32U01, 02 to 03, 04
05/27/09	Stand-Alone and Big Book Submittals	Consolidated
05/06/09	Dimensional Data Tables	Condensate Column Added to Water Connections Table, Rows Consolidated in Cabinet, Knockoutand Discharge Tables
04/14/09	006-012 unit data added	
02/25/09	First Published	



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