TRANQUILITY® 16 COMPACT (TC) SERIES SUBMITTAL DATA

MODELS TCH/V 006 - 060 50Hz - HFC-410A

ENGLISH LANGUAGE/S-I UNITS



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LC406 LC406

Revised: January 24, 2023



A NIBE GROUP MEMBER

SUBMITTAL DATA - S-I UNITS										
Unit Designation:	_									
Job Name:										
Architect:										
Engineer:										
Contractor:										
PERFORMANCE DATA										
Cooling Capacity: k	W									
EER:										
Heating Capacity: k	W									
COP:										
Ambient Air Temp:	<u>.C</u>									
Entering Water Temp (Clg):	<u>°C</u>									
Entering Air Temp (Clg):	<u>°C</u>									
Entering Water Temp (Htg):	<u>°C</u>									
Entering Air Temp (Htg):	<u>°C</u>									
Airflow:	<u>l/s</u>									
Fan Speed or Motor/RPM/Turns:	_									
Operating Weight: ((g)									
ELECTRICAL DATA										
Power Supply: Volts Phase I	<u> </u>									
Minimum Circuit Ampacity:										
Maximum Overcurrent Protection:	_									

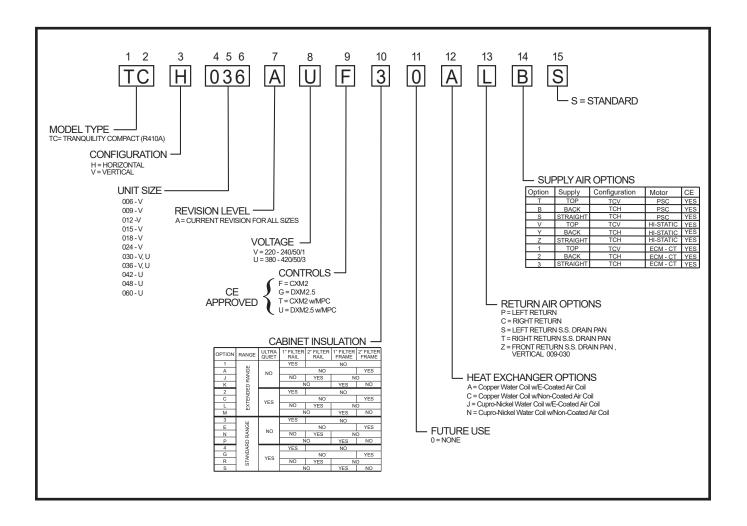
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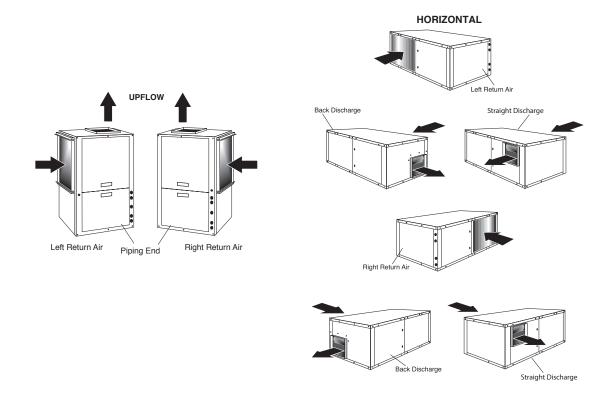
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^{*} Document page number is shown next to part number (e.g. LC406 - 3 = page 3). Since not all pages are typically used in the submittals process, the page number in the lower right corner can still be used (page ____of____).

TC Series Nomenclature





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Performance Rating Tables

Tranquility TC Ratings with ECM Motor ASHRAE/AHRI/ISO 13256-1. Metric (S-I) Units

	Wa	ter Loop	Heat Pump		Grou	nd Wate	r Heat Pum	p	Gro	und Loc	p Heat Pump	
Model	Cooling	30°C	Heating 20°C		Cooling	15°C	Heating	10°C	Cooling 2	25°C	Heating (0°C
	Capacity kW	EER W/W	Capacity kW	COP W/W	Capacity kW	EER W/W	Capacity kW	COP W/W	Capacity kW	EER W/W	Capacity kW	COP W/W
TC-006	1.38	3.9	1.80	4.4	1.68	6.5	1.47	3.8	1.48	4.6	1.10	3.1
TC-009	2.16	4.2	2.90	4.4	2.55	6.8	2.41	4.0	2.27	4.8	1.88	3.4
TC-012	2.58	3.6	3.47	4.1	3.23	6.0	2.89	3.7	2.82	4.3	2.33	3.2
TC-015	3.56	4.6	4.26	5.3	4.16	7.5	3.50	4.5	3.74	5.3	2.71	3.7
TC-018	4.43	4.5	5.10	5.2	5.22	7.6	4.22	4.6	4.76	5.4	3.36	3.9
TC-024	5.80	4.2	6.74	4.8	6.64	6.8	5.56	4.2	6.07	4.9	4.35	3.5
TC-030	7.32	4.6	8.96	4.8	8.36	7.5	7.33	4.3	7.56	5.2	5.73	3.6
TC-036	8.44	4.1	10.34	4.5	9.42	6.4	8.52	4.0	8.77	4.8	6.81	3.4
TC-042	10.20	4.4	12.98	4.8	11.51	6.9	10.73	4.3	10.63	5.0	8.31	3.7
TC-048	11.89	4.5	13.60	5.0	13.36	7.1	11.58	4.5	12.44	5.1	9.17	3.8
TC-060	15.31	4.7	18.34	4.9	17.15	7.1	15.30	4.4	15.54	5.2	12.11	3.6

Tranquility TC Ratings with PSC Motor ASHRAE/AHRI/ISO 13256-1. Metric (S-I) Units

	Wa	ter Loop	Heat Pump		Grou	nd Wate	r Heat Pum	р	Gro	und Loc	p Heat Pump	
Model	Cooling	30°C	Heating 20°C		Cooling 15°C		Heating	10°C	Cooling 2	25°C	Heating 0°C	
	Capacity kW	EER W/W	Capacity kW	COP W/W	Capacity kW	EER W/W	Capacity kW	COP W/W	Capacity kW	EER W/W	Capacity kW	COP W/W
TC-006	1.38	3.6	1.80	4.1	1.68	5.9	1.47	3.6	1.48	4.3	1.10	2.9
TC-009	2.16	4.1	2.90	4.3	2.55	6.5	2.41	3.8	2.27	4.6	1.88	3.3
TC-012	2.58	3.5	3.47	4.0	3.23	5.7	2.89	3.5	2.82	4.1	2.33	3.1
TC-015	3.56	4.4	4.26	5.0	4.16	7.0	3.50	4.3	3.74	5.1	2.71	3.5
TC-018	4.43	4.3	5.10	5.0	5.22	7.1	4.22	4.3	4.76	5.2	3.36	3.6
TC-024	5.80	4.0	6.74	4.5	6.64	6.4	5.56	4.0	6.07	4.7	4.35	3.3
TC-030	7.32	4.3	8.96	4.5	8.36	6.8	7.33	4.0	7.56	4.8	5.73	3.3
TC-036	8.44	3.9	10.34	4.3	9.42	6.1	8.52	3.8	8.77	4.6	6.81	3.3
TC-042	10.20	4.1	12.98	4.5	11.51	6.3	10.73	4.0	10.63	4.7	8.31	3.4
TC-048	11.89	4.3	13.60	4.8	13.36	6.7	11.58	4.3	12.44	4.9	9.17	3.6
TC-060	15.31	4.3	18.34	4.6	17.15	6.3	15.30	4.0	15.54	4.8	12.11	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. Ground loop heat pump ratings based on 20% methanol antifreeze solution. All ratings based upon operation at lower voltage of dual voltage rated models.

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Performance Rating Tables

Tranquility TC Ratings ECM

EN 14511-2 Metric (S-1) Units

Cooling Ratings

	Water	Loop	Control (Cabinet	Close Cont	rol Rating	
Model	27/19-3	30/35	35/24-	15/20	24/17-30/35		
	Capacity kW	EER W/W	Capacity kW	EER W/W	Capacity kW	EER W/W	
TC-006	1.39	4.0	2.06	8.6	1.29	3.6	
TC-009	2.18	4.2	3.02	8.6	1.98	3.8	
TC-012	2.60	3.6	3.79	7.1	2.37	3.3	
TC-015	3.55	4.5	4.90	9.4	3.32	4.2	
TC-018	4.53	4.8	6.21	9.9	4.23	4.5	
TC-024	5.80	4.2	7.79	7.9	5.46	4.0	
TC-030	7.36	4.7	9.91	8.9	6.89	4.4	
TC-036	8.33	4.0	10.92	6.9	7.80	3.8	
TC-042	10.23	4.1	13.14	7.1	9.57	3.9	
TC-048	11.90	4.2	15.26	7.2	11.27	3.9	
TC-060	15.23	4.2	19.73	6.8	14.40	4.0	

Heating Ratings

	Water	Loop	Water	Rating	Brine I	Rating
Model	20-	-20	20-1	5/12	20-0	0/-3
	Capacity BTUH	EER BTUH/W	Capacity BTUH	EER BTUH/W	Capacity BTUH	EER BTUH/W
TC-006	1.82	4.5	1.65	4.2	1.11	3.1
TC-009	2.92	4.5	2.67	4.2	1.89	3.4
TC-012	3.44	4.1	3.14	3.9	2.31	3.2
TC-015	4.14	5.0	3.79	4.7	2.63	3.5
TC-018	5.22	5.5	4.77	5.1	3.39	3.9
TC-024	6.84	4.9	6.26	4.6	4.38	3.6
TC-030	9.04	4.9	8.21	4.7	5.71	3.6
TC-036	10.39	4.7	9.45	4.2	6.79	3.4
TC-042	13.06	4.6	11.96	4.3	8.36	3.4
TC-048	13.59	4.7	12.61	4.5	N/A	N/A
TC-060	18.46	4.8	16.96	4.3	12.28	3.3

Heating capacities based upon 20 C DB, 15 C WB entering air temperature.

Heating Water Loop, Comfort Rating water flow derived from corresponding cooling rating.

All other rating water flows-based on delta-T of corresponding rating point.

All ratings based upon operation at lower voltage of dual voltage rated models.

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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 5°C when the JW3 jumper is not clipped (see example below). This is due to the potential of the refrigerant temperature being as low as 0°C with 5°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 10°C EWT (Entering Water Temperature) and 0.28 l/s (minimum flow rate), a TS036 unit has a HE of 5.84 kW. To calculate LWT, rearrange the formula for HE as follows:

 $HE = TD \times Flow \times 4.18$ where HE = Heat of Extraction (kW); TD = temperaturedifference (EWT - LWT); and Flow = Water Flow Rate in I/s

TD = HE / ($I/s \times 4.18$) TD = 5.84 / (0.28 x 4.18) TD = 5°C LWT = EWT - TD LWT = 10 - 5 = 5°C

	HC kW	Power kW	HE kW	LAT °C	COP W/W	
	5.46	1.75	3.70	29.6	3.11	\
6.68	6.07	1.78	4.30	30.7	3.42	\
6.97	6.31	1.79	4.52	31.1	3.53	\
7.16	6.43	1.79	4.64	31.3	3.59	1
6.72	6.80	1.81	5.00	31.9	3.77	
6.89	7.08	1.82	5.26	32.4	3.89	/
7.12	7.23	1.82	5.40	32.7	3.96	/
.98	7.73	1.88	5.84	33.6	4.10	/
V 4	8.05	1.90	6.16	34.1	4.24	
	8.23	1.91	6.33	34.4	4.32	
	8.29	1.87	6.42	34.6	4.43	•
		1.89	6.77	35.2		
			6 96			

In this example, as long as the EWT does not fall below 10°C, the system will operate as designed at 0.28 l/s. For EWTs below 10°C, higher flow rates will be required (open loop systems with EWT below 10°C, for example, require the middle flow rate).

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Performance Data – TC H/V 006 Cooling

79 I/S Nominal Airflow

Performance capacities shown in kW

WA	ATER / BR	INE					COOLING-EAT	Г 27/19° С				
EWT	FLOW	PD		sc	Sens/Tot	Po	ower kW	HR	E	СМ	Р	sc
°C	I/s	kPa	TC kW	kW	Ratio	ECM	PSC	kW	EER W/W	SEER W/W	EER W/W	SEER W/W
	0.04	3.4										
-5	0.06	7.2				OPER	ATION NOT R	ECOMMEND	DED			
	0.08	11.3										
	0.04	3.2	1.82	1.22	0.67	0.24	0.26	2.06	26.1	9.5	23.5	9.1
0	0.06	6.6	1.87	1.25	0.67	0.21	0.24	2.08	29.7	10.1	26.4	9.7
	0.08	10.5	1.89	1.26	0.67	0.20	0.23	2.09	31.7	10.4	28.0	10.0
	0.04	2.6	1.75	1.17	0.67	0.27	0.29	2.01	22.4	8.8	20.4	8.4
5	0.06	5.5	1.81	1.21	0.67	0.24	0.27	2.05	25.4	9.4	22.9	9.0
	0.08	8.6	1.84	1.23	0.67	0.23	0.26	2.07	27.1	9.7	24.3	9.3
	0.04	2.5	1.66	1.13	0.68	0.29	0.32	1.95	19.3	8.0	17.6	7.7
10	0.06	5.3	1.73	1.16	0.67	0.27	0.30	2.00	21.8	8.6	19.8	8.3
	0.08	8.4	1.76	1.18	0.67	0.26	0.29	2.02	23.2	8.9	21.0	8.6
	0.04	2.5	1.56	1.08	0.69	0.32	0.35	1.89	16.5	7.2	15.2	7.0
15	0.06	5.2	1.64	1.12	0.68	0.30	0.33	1.94	18.6	7.8	17.1	7.5
	0.08	8.2	1.68	1.14	0.68	0.29	0.32	1.97	19.8	8.1	18.1	7.8
	0.04	2.4	1.45	1.03	0.71	0.35	0.38	1.81	14.0	6.5	13.0	6.2
20	0.06	5.1	1.54	1.07	0.70	0.33	0.36	1.87	15.8	7.0	14.6	6.8
	0.08	8.1	1.57	1.09	0.69	0.32	0.35	1.89	16.8	7.3	15.5	7.1
	0.04	2.4	1.34	0.98	0.73	0.39	0.41	1.73	11.8	5.7	11.0	5.5
25	0.06	4.9	1.42	1.02	0.71	0.36	0.39	1.79	13.3	6.3	12.4	6.0
	0.08	7.9	1.46	1.03	0.71	0.35	0.38	1.82	14.2	6.5	13.2	6.3
	0.04	2.3	1.22	0.92	0.75	0.42	0.45	1.64	9.9	5.0	9.3	4.8
30	0.06	4.8	1.30	0.96	0.74	0.40	0.42	1.70	11.2	5.5	10.4	5.3
	0.08	7.7	1.34	0.98	0.73	0.39	0.41	1.73	11.9	5.7	11.1	5.6
	0.04	2.3	1.10	0.86	0.78	0.46	0.49	1.56	8.2	4.3	7.7	4.2
35	0.06	4.7	1.18	0.90	0.76	0.43	0.46	1.61	9.3	4.8	8.7	4.6
	0.08	7.6	1.22	0.92	0.75	0.42	0.45	1.64	9.8	5.0	9.2	4.8
	0.04	2.2	0.98	0.80	0.81	0.50	0.53	1.48	6.7	3.7	6.3	3.6
40	0.06	4.6	1.05	0.84	0.79	0.47	0.50	1.53	7.6	4.1	7.2	3.9
	0.08	7.4	1.09	0.86	0.78	0.46	0.49	1.55	8.1	4.3	7.6	4.1
	0.04	2.2	0.86	0.73	0.85	0.54	0.57	1.40	5.4	3.1	5.1	3.0
45	0.06	4.5	0.93	0.77	0.83	0.52	0.54	1.45	6.1	3.4	5.8	3.3
	0.08	7.3	0.97	0.79	0.82	0.50	0.53	1.47	6.5	3.6	6.2	3.5

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Interpolation is permissible; extrapolation is not.

All entering air conditions are 27°C DB and 19°C WB in cooling and 20°C DB in heating.

AHRI/ISO certified conditions are 27°C DB and 19°C WB in cooling and 20°C DB in heating.

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

All performance data 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 4°C EWT is based upon a 20% methanol antifreeze solution.

Operation below 16°C EWT requires optional insulated water/refrigerant circuit. See performance correction tables for operating conditions other than those listed above.

Gray shaded area in cooling refers to not recommended continuous operation below 10°C water

Performance Data – TC H/V 006 Heating

79 I/S Nominal Airflow

Performance capacities shown in kW

W/	ATER / BRI	INE				Heati	ng - EAT	20 °C	renomiano				
EWT	FLOW	PD	нс	Pow	er kW	HE	LAT	E	CM	PS	SC		
°C	I/s	kPa	kW	ECM	PSC	kW	C	COP W/W	SCOP W/W	COP W/W	SCOP W/W		
	0.04	3.4			OBI	EDATION	NOT BEC	OMMEND	ED				
-5	0.06	7.2			OF	LINATION	NOT KEC	CIVINICIAD					
	0.08	11.3	0.94	0.38	0.40	0.56	30.0	2.5	2.2	2.5	2.2		
	0.04	3.2	1.05	0.39	0.41	0.66	31.1	2.7	2.4	2.7	2.3		
0	0.06	6.6	1.10	0.39	0.42	0.70	31.6	2.8	2.4	2.8	2.4		
	0.08	10.5	1.12	0.39	0.42	0.73	31.9	2.9	2.5	2.8	2.5		
	0.04	2.6	1.21	0.40	0.43	0.81	32.9	3.0	2.6	3.0	2.6		
5	0.06	5.5	1.27	0.41	0.43	0.86	33.5	3.1	2.7	3.1	2.7		
	0.08	8.6	1.30	0.41	0.43	0.89	33.8	3.2	2.8	3.2	2.8		
	0.04	2.5	1.38	0.41	0.44	0.96	34.6	3.3	2.9	3.3	2.9		
10	0.06	5.3	1.44	0.42	0.44	1.02	35.3	3.4	3.0	3.4	3.0		
	0.08	8.4	1.48	0.42	0.45	1.06	35.7	3.5	3.1	3.5	3.0		
	0.04	2.5	1.53	0.43	0.45	1.11	36.3	3.6	3.1	3.6	3.1		
15	0.06	5.2	1.61	0.43	0.46	1.18	37.1	3.7	3.3	3.7	3.2		
	0.08	8.2	1.65	0.43	0.46	1.22	37.5	3.8	3.3	3.8	3.3		
	0.04	2.4	1.69	0.44	0.46	1.25	37.9	3.9	3.4	3.8	3.4		
20	0.06	5.1	1.77	0.44	0.47	1.33	38.8	4.0	3.5	4.0	3.5		
	0.08	8.1	1.81	0.44	0.47	1.37	39.2	4.1	3.5	4.1	3.5		
	0.04	2.4	1.83	0.45	0.47	1.39	39.5	4.1	3.6	4.1	3.6		
25	0.06	4.9	1.92	0.45	0.48	1.47	40.4	4.2	3.7	4.2	3.7		
	0.08	7.9	1.96	0.46	0.48	1.51	40.8	4.3	3.8	4.3	3.7		
	0.04	2.3	1.97	0.46	0.48	1.52	40.9	4.3	3.8	4.3	3.7		
30	0.06	4.8	2.06	0.46	0.49	1.59	41.8	4.4	3.9	4.4	3.9		
	0.08	7.7	2.10	0.47	0.49	1.63	42.3	4.5	3.9	4.5	3.9		
	0.04	2.3											
35	0.06	4.7											
	0.08	7.6											
	0.04	2.2											
40	0.06	4.6	OPERATION NOT RECOMMENDED										
	0.08	7.4											
	0.04	2.2											
45	0.06	4.5											
	0.08	7.3											

Interpolation is permissible; extrapolation is not.

All entering air conditions are 27°C DB and 19°C WB in cooling and 20°C DB in heating.

AHRI/ISO certified conditions are 27°C DB and 19°C WB in cooling and 20°C DB in heating.

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

All performance data 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 4°C EWT is based upon a 20% methanol antifreeze solution.

Operation below 16°C EWT requires optional insulated water/refrigerant circuit.

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

Gray shaded area in heating refers to calculations required to determine if heating water flow is sufficient for non-antifreeze systems.

Performance Data – TC H/V 009 Cooling

121 I/S Nominal Airflow

Performance capacities shown in kW

WA	ATER / BRI	INE					COOLING-EAT	27/19° C				
EWT	FLOW	PD		sc	Sens/Tot	Po	wer kW	HR	E	СМ	Р	sc
°C	I/s	kPa	TC kW	kW	Ratio	ECM	PSC	kW	EER W/W	SEER W/W	EER W/W	SEER W/W
	0.06	5.9										
-5	0.09	14.0				OPER	ATION NOT RE	ECOMMEN	DED			
	0.12	23.8										
	0.06	4.2	2.70	1.82	0.67	0.34	0.43	3.05	27.0	12.2	21.3	11.8
0	0.09	10.5	2.68	1.79	0.67	0.31	0.39	2.99	29.5	12.7	23.3	12.3
	0.12	19.0	2.65	1.77	0.67	0.29	0.38	2.95	30.7	12.8	24.2	12.4
	0.06	3.4	2.67	1.80	0.68	0.39	0.48	3.06	23.5	11.4	18.8	11.1
5	0.09	8.0	2.70	1.82	0.67	0.35	0.44	3.06	26.1	12.0	20.9	11.7
	0.12	13.1	2.70	1.82	0.67	0.35	0.42	3.05	26.3	12.1	21.9	12.0
	0.06	3.1	2.58	1.76	0.68	0.44	0.53	3.02	20.2	10.4	16.5	10.2
10	0.09	7.4	2.65	1.80	0.68	0.40	0.49	3.05	22.6	11.1	18.4	10.9
	0.12	12.3	2.68	1.81	0.68	0.38	0.47	3.06	23.9	11.5	19.4	11.3
	0.06	2.9	2.45	1.69	0.69	0.49	0.59	2.94	17.2	9.3	14.4	9.3
15	0.09	6.8	2.55	1.74	0.68	0.45	0.54	3.00	19.4	10.1	16.1	10.0
	0.12	11.5	2.59	1.77	0.68	0.43	0.52	3.03	20.5	10.5	17.0	10.4
	0.06	2.6	2.30	1.61	0.70	0.54	0.64	2.84	14.6	8.3	12.4	8.3
20	0.09	6.2	2.41	1.67	0.69	0.50	0.60	2.91	16.4	9.0	14.0	9.1
	0.12	10.7	2.47	1.70	0.69	0.48	0.58	2.95	17.4	9.4	14.8	9.5
	0.06	2.3	2.12	1.51	0.71	0.59	0.70	2.71	12.2	7.2	10.6	7.4
25	0.09	5.6	2.24	1.58	0.70	0.56	0.65	2.80	13.8	7.9	12.0	8.1
	0.12	9.9	2.30	1.61	0.70	0.54	0.63	2.84	14.6	8.3	12.7	8.5
	0.06	2.1	1.93	1.42	0.73	0.65	0.76	2.58	10.1	6.2	9.0	6.5
30	0.09	5.0	2.05	1.48	0.72	0.61	0.71	2.67	11.5	6.9	10.2	7.2
	0.12	9.2	2.12	1.51	0.71	0.59	0.69	2.71	12.2	7.2	10.8	7.5
	0.06	2.0	1.74	1.32	0.76	0.71	0.82	2.45	8.4	5.3	7.6	5.7
35	0.09	5.0	1.86	1.38	0.74	0.67	0.77	2.53	9.4	5.9	8.6	6.3
	0.12	9.0	1.92	1.41	0.73	0.65	0.75	2.57	10.0	6.2	9.1	6.6
	0.06	1.9	1.55	1.23	0.79	0.77	0.88	2.32	6.9	4.5	6.4	4.9
40	0.09	4.9	1.66	1.28	0.77	0.73	0.84	2.39	7.7	5.0	7.2	5.4
	0.12	8.7	1.72	1.31	0.76	0.72	0.82	2.43	8.2	5.2	7.7	5.7
	0.06	1.9	1.37	1.14	0.83	0.84	0.95	2.21	5.6	3.8	5.4	4.2
45	0.09	4.9	1.47	1.19	0.81	0.80	0.91	2.27	6.3	4.2	6.0	4.6
	0.12	8.5	1.52	1.21	0.80	0.78	0.88	2.30	6.6	4.4	6.4	4.9
			ation is not						1			

Interpolation is permissible; extrapolation is not.

All entering air conditions are 27°C DB and 19°C WB in cooling and 20°C DB in heating.

AHRI/ISO certified conditions are 27°C DB and 19°C WB in cooling and 20°C DB in heating.

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

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

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Performance stated is at the rated power supply; performance may vary as the power supply varies from the rated. Operation below 4°C EWT is based upon a 20% methanol antifreeze solution.

Operation below 16°C EWT requires optional insulated water/refrigerant circuit.

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

Gray shaded area in cooling refers to not recommended continuous operation below 10°C water

Performance Data – TC H/V 009 Heating

121 I/S Nominal Airflow

Performance capacities shown in kW

W	ATER / BRI	INE				Heati	ng - EAT	20 °C	renomiano				
EWT	FLOW	PD	нс	Pow	er kW	HE	LAT	E	CM	PS	SC		
°C	I/s	kPa	kW	ECM	PSC	kW	C	COP W/W	SCOP W/W	COP W/W	SCOP W/W		
	0.06	5.9			OBI	EDATION	NOT BEC	OMMEND	ED				
-5	0.09	14.0			OF	EKATION	NOT REC	OMMEND	ED				
	0.12	23.8	1.68	0.59	0.61	1.09	31.6	2.8	2.5	2.8	2.5		
	0.06	4.2	1.81	0.61	0.62	1.20	32.4	3.0	2.6	3.0	2.6		
0	0.09	10.5	1.89	0.62	0.63	1.27	33.0	3.1	2.7	3.1	2.7		
	0.12	19.0	1.93	0.62	0.64	1.31	33.3	3.1	2.7	3.1	2.7		
	0.06	3.4	2.04	0.63	0.65	1.41	34.0	3.2	2.8	3.2	2.8		
5	0.09	8.0	2.13	0.64	0.66	1.49	34.6	3.3	2.9	3.3	2.9		
	0.12	13.1	2.18	0.65	0.66	1.53	35.0	3.4	2.9	3.4	2.9		
	0.06	3.1	2.26	0.66	0.67	1.61	35.5	3.5	3.0	3.4	3.0		
10	0.09	7.4	2.37	0.67	0.68	1.70	36.3	3.6	3.1	3.6	3.1		
	0.12	12.3	2.43	0.67	0.69	1.75	36.7	3.6	3.2	3.6	3.1		
	0.06	2.9	2.49	0.68	0.69	1.81	37.1	3.7	3.2	3.7	3.2		
15	0.09	6.8	2.60	0.69	0.70	1.91	37.9	3.8	3.3	3.8	3.3		
	0.12	11.5	2.66	0.70	0.71	1.97	38.3	3.8	3.3	3.8	3.3		
	0.06	2.6	2.70	0.70	0.72	2.00	38.6	3.9	3.4	3.9	3.4		
20	0.09	6.2	2.83	0.71	0.73	2.12	39.4	4.0	3.5	4.0	3.5		
	0.12	10.7	2.90	0.72	0.74	2.17	39.9	4.0	3.5	4.0	3.5		
	0.06	2.3	2.92	0.72	0.74	2.19	40.0	4.0	3.5	4.0	3.5		
25	0.09	5.6	3.05	0.74	0.76	2.31	40.9	4.1	3.6	4.1	3.6		
	0.12	9.9	3.12	0.75	0.76	2.37	41.4	4.2	3.6	4.2	3.6		
	0.06	2.1	3.12	0.75	0.76	2.37	41.4	4.2	3.6	4.2	3.6		
30	0.09	5.0	3.26	0.77	0.78	2.49	42.4	4.2	3.7	4.2	3.7		
	0.12	9.2	3.33	0.78	0.80	2.55	42.9	4.3	3.7	4.3	3.7		
	0.06	2.0											
35	0.09	5.0											
	0.12	9.0											
	0.06	1.9											
40	0.09	4.9	OPERATION NOT RECOMMENDED										
	0.12	8.7											
	0.06	1.9											
45	0.09	4.9											
	0.12	8.5											

Interpolation is permissible; extrapolation is not.

All entering air conditions are 27°C DB and 19°C WB in cooling and 20°C DB in heating.

AHRI/ISO certified conditions are 27°C DB and 19°C WB in cooling and 20°C DB in heating.

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

All performance data 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 4°C EWT is based upon a 20% methanol antifreeze solution.

Operation below 16°C EWT requires optional insulated water/refrigerant circuit. See performance correction tables for operating conditions other than those listed above.

Gray shaded area in heating refers to calculations required to determine if heating water flow is sufficient for non-antifreeze systems.

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Performance Data – TC H/V 012 Cooling

144 I/S Nominal Airflow

Performance capacities shown in kW

W	ATER / BR	INE					COOLING-EAT	Γ 27/19° C				
EWT	FLOW	PD		sc	Sana/Tat	Po	ower kW	HR	Е	СМ	Р	sc
°C	I/s	kPa	TC kW	kW	Sens/Tot Ratio	ECM	PSC	kW	EER W/W	SEER W/W	EER W/W	SEER W/W
	0.09	24.0										
-5	0.14	45.7				OPER	RATION NOT RI	ECOMMEND	ED			
	0.19	60.8										
	0.09	19.2	3.50	2.35	0.67	0.48	0.51	3.98	25.1	13.5	23.6	13.0
0	0.14	34.0	3.56	2.38	0.67	0.44	0.47	4.00	27.4	14.2	25.7	13.7
	0.19	54.2	3.58	2.40	0.67	0.43	0.46	4.01	28.6	14.6	26.7	14.1
	0.09	16.6	3.38	2.27	0.67	0.53	0.56	3.91	21.9	12.3	20.7	11.9
5	0.14	30.8	3.47	2.32	0.67	0.49	0.52	3.96	24.1	13.1	22.7	12.7
	0.19	47.3	3.51	2.35	0.67	0.47	0.50	3.98	25.2	13.5	23.7	13.1
	0.09	15.3	3.22	2.18	0.68	0.58	0.61	3.80	18.9	11.1	17.9	10.8
10	0.14	28.6	3.33	2.24	0.67	0.54	0.58	3.88	20.9	11.9	19.8	11.5
	0.19	44.2	3.38	2.27	0.67	0.53	0.56	3.91	21.9	12.3	20.7	11.9
	0.09	13.9	3.03	2.09	0.69	0.64	0.67	3.67	16.2	9.9	15.4	9.6
15	0.14	26.5	3.16	2.15	0.68	0.60	0.63	3.76	17.9	10.7	17.0	10.4
	0.19	41.0	3.22	2.18	0.68	0.58	0.61	3.80	18.9	11.1	17.9	10.8
	0.09	12.6	2.82	1.98	0.70	0.70	0.73	3.52	13.8	8.7	13.2	8.5
20	0.14	24.3	2.96	2.05	0.69	0.66	0.69	3.62	15.2	9.4	14.6	9.2
	0.19	37.9	3.02	2.08	0.69	0.64	0.67	3.66	16.1	9.8	15.3	9.5
	0.09	11.2	2.59	1.87	0.72	0.76	0.79	3.35	11.6	7.6	11.1	7.4
25	0.14	22.2	2.73	1.94	0.71	0.72	0.76	3.45	12.8	8.2	12.3	8.0
	0.19	34.7	2.80	1.97	0.70	0.71	0.74	3.50	13.5	8.6	13.0	8.3
	0.09	10.0	2.34	1.76	0.75	0.83	0.86	3.17	9.6	6.5	9.3	6.3
30	0.14	20.1	2.48	1.82	0.74	0.79	0.82	3.27	10.7	7.1	10.3	6.9
	0.19	31.8	2.55	1.86	0.73	0.77	0.80	3.32	11.3	7.4	10.8	7.2
	0.09	9.5	2.09	1.64	0.79	0.90	0.93	2.98	7.9	5.5	7.7	5.3
35	0.14	19.1	2.22	1.70	0.77	0.86	0.89	3.08	8.8	6.0	8.5	5.8
	0.19	30.5	2.29	1.74	0.76	0.84	0.87	3.13	9.3	6.3	9.0	6.1
	0.09	9.0	1.83	1.52	0.83	0.97	1.00	2.80	6.5	4.6	6.2	4.4
40	0.14	18.0	1.96	1.58	0.81	0.93	0.96	2.89	7.2	5.0	6.9	4.9
	0.19	29.3	2.02	1.61	0.80	0.91	0.94	2.94	7.6	5.2	7.3	5.1
	0.09	8.5	1.57	1.38	0.88	1.04	1.07	2.61	5.2	3.7	5.0	3.6
45	0.14	17.0	1.69	1.45	0.86	1.01	1.04	2.69	5.7	4.1	5.5	4.0
	0.19	28.0	1.75	1.48	0.84	0.99	1.02	2.74	6.0	4.3	5.9	4.2

Operation below 16°C EWT requires optional insulated water/refrigerant circuit.

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

Gray shaded area in cooling refers to not recommended continuous operation below 10°C water

Interpolation is permissible; extrapolation is not.

All entering air conditions are 27°C DB and 19°C WB in cooling and 20°C DB in heating.

AHRI/ISO certified conditions are 27°C DB and 19°C WB in cooling and 20°C DB in heating.

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

All performance data 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 4°C EWT is based upon a 20% methanol antifreeze solution.

Performance Data – TC H/V 012 Heating

144 I/S Nominal Airflow

Performance capacities shown in kW

WA	TER / BRI	INE				Heati	ng - EAT :	20 °C			
EWT	FLOW	PD	нс	Pow	er kW	HE	LAT	E	CM	PS	SC SC
°C	I/s	kPa	kW	ECM	PSC	kW	C	COP W/W	SCOP W/W	COP W/W	SCOP W/W
	0.09	24.0			OPI	ERATION I	NOT REC	OMMEND	ED.		
-5	0.14	45.7			011	INATION	NOT KE	CIMINEIND			
	0.19	60.8	2.08	0.74	0.77	1.33	32.1	2.8	2.4	2.8	2.4
	0.09	19.2	2.25	0.77	0.80	1.49	33.1	2.9	2.6	2.9	2.6
0	0.14	34.0	2.32	0.78	0.80	1.55	33.6	3.0	2.6	3.0	2.6
	0.19	54.2	2.36	0.78	0.81	1.58	33.8	3.0	2.6	3.0	2.6
	0.09	16.6	2.51	0.80	0.83	1.71	34.6	3.1	2.7	3.1	2.7
5	0.14	30.8	2.58	0.81	0.84	1.78	35.1	3.2	2.8	3.2	2.8
	0.19	47.3	2.63	0.81	0.84	1.81	35.3	3.2	2.8	3.2	2.8
	0.09	15.3	2.76	0.83	0.85	1.93	36.1	3.3	2.9	3.3	2.9
10	0.14	28.6	2.84	0.83	0.86	2.00	36.6	3.4	3.0	3.4	3.0
	0.19	44.2	2.88	0.84	0.87	2.04	36.8	3.4	3.0	3.4	3.0
	0.09	13.9	3.00	0.85	0.88	2.15	37.5	3.5	3.1	3.5	3.1
15	0.14	26.5	3.09	0.86	0.89	2.23	38.0	3.6	3.1	3.6	3.1
	0.19	41.0	3.14	0.87	0.90	2.27	38.3	3.6	3.2	3.6	3.2
	0.09	12.6	3.24	0.88	0.91	2.36	38.9	3.7	3.2	3.7	3.2
20	0.14	24.3	3.34	0.89	0.92	2.45	39.5	3.8	3.3	3.8	3.3
	0.19	37.9	3.40	0.89	0.92	2.50	39.8	3.8	3.3	3.8	3.3
	0.09	11.2	3.49	0.91	0.93	2.58	40.3	3.8	3.4	3.8	3.4
25	0.14	22.2	3.60	0.92	0.95	2.68	41.0	3.9	3.4	3.9	3.4
	0.19	34.7	3.67	0.93	0.96	2.74	41.4	4.0	3.4	3.9	3.4
	0.09	10.0	3.74	0.94	0.97	2.81	41.9	4.0	3.5	4.0	3.5
30	0.14	20.1	3.88	0.96	0.98	2.92	42.6	4.1	3.5	4.1	3.5
	0.19	31.8	3.95	0.97	1.00	2.99	43.1	4.1	3.6	4.1	3.6
	0.09	9.5									
35	0.14	19.1									
	0.19	30.5									
	0.09	9.0									
40	0.14	18.0			ОР	RATION	NOT REC	OMMEND	ED		
	0.19	29.3									
	0.09	8.5									
45	0.14	17.0									
	0.19	28.0									

Interpolation is permissible; extrapolation is not.

All entering air conditions are 27°C DB and 19°C WB in cooling and 20°C DB in heating.

AHRI/ISO certified conditions are 27°C DB and 19°C WB in cooling and 20°C DB in heating.

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

All performance data 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 4°C EWT is based upon a 20% methanol antifreeze solution.

Operation below 16°C EWT requires optional insulated water/refrigerant circuit.

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

Gray shaded area in cooling refers to not recommended continuous operation below 10°C water

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Performance Data – TC H/V 015 Cooling

192 I/S Nominal Airflow

Performance capacities shown in kW

W	ATER / BRI	NE					COOLING-EAT	27/19° C				
EWT	FLOW	PD		sc	Sens/Tot	Po	wer kW	HR	Е	СМ	Р	sc
°C	I/s	kPa	TC kW	kW	Ratio	ECM	PSC	kW	EER W/W	SEER W/W	EER W/W	SEER W/W
	0.10	8.6								VIII V		******
-5	0.15	17.6				OPER	ATION NOT RE	COMMEND	ED			
	0.21	23.8										
	0.10	6.6	4.42	3.10	0.70	0.52	0.56	4.94	28.9	16.2	26.7	15.5
0	0.15	12.8	4.40	3.05	0.69	0.48	0.52	4.89	31.2	16.8	28.7	16.1
	0.21	22.0	4.37	3.01	0.69	0.46	0.51	4.84	32.1	17.0	29.5	16.3
	0.10	5.9	4.36	3.11	0.71	0.58	0.62	4.94	25.6	15.0	23.9	14.4
5	0.15	12.0	4.41	3.11	0.70	0.53	0.58	4.95	28.2	16.0	26.1	15.3
	0.21	19.1	4.42	3.09	0.70	0.51	0.55	4.93	29.4	16.4	27.2	15.7
	0.10	5.5	4.23	3.08	0.73	0.65	0.69	4.88	22.3	13.7	20.9	13.2
10	0.15	11.1	4.34	3.11	0.72	0.59	0.64	4.93	24.9	14.7	23.2	14.2
	0.21	17.8	4.38	3.12	0.71	0.57	0.61	4.95	26.2	15.2	24.4	14.6
	0.10	5.0	4.05	3.01	0.74	0.72	0.76	4.76	19.3	12.3	18.2	11.8
15	0.15	10.2	4.19	3.06	0.73	0.66	0.70	4.85	21.6	13.4	20.3	12.9
	0.21	16.6	4.25	3.09	0.73	0.64	0.68	4.89	22.8	13.9	21.4	13.4
	0.10	4.5	3.82	2.91	0.76	0.79	0.83	4.62	16.5	10.9	15.6	10.5
20	0.15	9.3	3.99	2.98	0.75	0.74	0.78	4.73	18.5	11.9	17.5	11.5
	0.21	15.3	4.07	3.02	0.74	0.71	0.75	4.78	19.6	12.5	18.5	12.0
	0.10	4.0	3.58	2.79	0.78	0.87	0.91	4.45	14.1	9.6	13.4	9.3
25	0.15	8.4	3.76	2.88	0.77	0.81	0.86	4.57	15.8	10.5	15.0	10.2
	0.21	14.1	3.84	2.92	0.76	0.78	0.83	4.63	16.7	11.0	15.9	10.6
	0.10	3.6	3.32	2.66	0.80	0.95	0.99	4.27	11.9	8.4	11.4	8.1
30	0.15	7.6	3.50	2.75	0.79	0.89	0.94	4.39	13.4	9.2	12.7	8.9
	0.21	12.9	3.59	2.80	0.78	0.87	0.91	4.45	14.2	9.6	13.5	9.3
	0.10	3.4	3.06	2.52	0.83	1.03	1.08	4.09	10.1	7.3	9.7	7.1
35	0.15	7.2	3.23	2.61	0.81	0.98	1.02	4.21	11.3	8.0	10.8	7.7
	0.21	12.4	3.32	2.66	0.80	0.95	0.99	4.27	11.9	8.4	11.4	8.1
	0.10	3.2	2.80	2.39	0.85	1.12	1.16	3.92	8.6	6.3	8.2	6.1
40	0.15	6.9	2.96	2.47	0.84	1.06	1.11	4.02	9.5	6.9	9.1	6.7
	0.21	11.9	3.04	2.52	0.83	1.04	1.08	4.08	10.0	7.2	9.6	7.0
	0.10	3.0	2.57	2.27	0.89	1.20	1.25	3.77	7.3	5.5	7.0	5.3
45	0.15	6.5	2.70	2.34	0.87	1.15	1.19	3.86	8.0	5.9	7.7	5.8
	0.21	11.3	2.78	2.38	0.86	1.12	1.17	3.90	8.4	6.2	8.1	6.0
Internolatio												

Interpolation is permissible; extrapolation is not.

All entering air conditions are 27°C DB and 19°C WB in cooling and 20°C DB in heating.

AHRI/ISO certified conditions are 27°C DB and 19°C WB in cooling and 20°C DB in heating.

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

ClimateMaster works continually to improve its products. As a result, the design and specifications of each product at the time of order may be changed without notice and may not be as described herein. Please contact ClimateMaster's Customer 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, but are merely ClimateMaster's opinion or commendation of its products. The latest version of this document is available at climatemaster.com.

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All performance data 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 4°C EWT is based upon a 20% methanol antifreeze solution.

Operation below 16°C EWT requires optional insulated water/refrigerant circuit.

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

Gray shaded area in cooling refers to not recommended continuous operation below 10 $^{\circ}\text{C}$ water

Performance Data – TC H/V 015 Heating

192 I/S Nominal Airflow

Performance capacities shown in kW

WA	TER / BR	INE				Heati	ng - EAT	20 °C			
EWT	FLOW	PD	нс	Pow	er kW	HE	LAT	E	СМ	PS	SC SC
°C	I/s	kPa	kW	ECM	PSC	kW	C	COP W/W	SCOP W/W	COP W/W	SCOP W/W
	0.10	8.6			OPI	FRATION	NOT REC	OMMEND	FD		
-5	0.15	17.6			0	LIVATION					
	0.21	23.8	2.36	0.80	0.84	1.56	30.2	2.9	2.6	2.9	2.6
	0.10	6.6	2.58	0.82	0.86	1.76	31.2	3.2	2.8	3.1	2.7
0	0.15	12.8	2.69	0.82	0.86	1.86	31.6	3.3	2.8	3.3	2.8
	0.21	22.0	2.74	0.83	0.87	1.92	31.9	3.3	2.9	3.3	2.9
	0.10	5.9	2.94	0.84	0.88	2.09	32.7	3.5	3.0	3.5	3.0
5	0.15	12.0	3.06	0.85	0.89	2.21	33.2	3.6	3.2	3.6	3.1
	0.21	19.1	3.13	0.85	0.89	2.28	33.5	3.7	3.2	3.7	3.2
	0.10	5.5	3.29	0.86	0.90	2.43	34.2	3.8	3.3	3.8	3.3
10	0.15	11.1	3.44	0.87	0.91	2.57	34.9	3.9	3.4	3.9	3.4
	0.21	17.8	3.52	0.88	0.92	2.64	35.2	4.0	3.5	4.0	3.5
	0.10	5.0	3.65	0.88	0.92	2.76	35.8	4.1	3.6	4.1	3.6
15	0.15	10.2	3.81	0.89	0.93	2.92	36.5	4.3	3.7	4.3	3.7
	0.21	16.6	3.90	0.90	0.94	3.00	36.9	4.3	3.8	4.3	3.8
	0.10	4.5	4.00	0.90	0.94	3.10	37.3	4.4	3.9	4.4	3.8
20	0.15	9.3	4.18	0.91	0.95	3.27	38.1	4.6	4.0	4.6	4.0
	0.21	15.3	4.28	0.92	0.96	3.36	38.5	4.7	4.1	4.7	4.1
	0.10	4.0	4.35	0.92	0.96	3.43	38.8	4.7	4.1	4.7	4.1
25	0.15	8.4	4.55	0.93	0.97	3.62	39.7	4.9	4.3	4.9	4.2
	0.21	14.1	4.66	0.94	0.98	3.72	40.1	5.0	4.3	5.0	4.3
	0.10	3.6	4.69	0.94	0.98	3.75	40.3	5.0	4.4	5.0	4.3
30	0.15	7.6	4.90	0.95	0.99	3.95	41.2	5.2	4.5	5.1	4.5
	0.21	12.9	5.02	0.96	1.00	4.06	41.7	5.3	4.6	5.2	4.6
	0.10	3.4									
35	0.15	7.2									
	0.21	12.4									
	0.10	3.2									
40	0.15	6.9			ОРІ	ERATION	NOT REC	OMMEND	ED		
	0.21	11.9									
	0.10	3.0									
45	0.15	6.5									
	0.19	28.0									

Interpolation is permissible; extrapolation is not. All entering air conditions are 27°C DB and 19°C WB in cooling and 20°C DB in heating.

AHRI/ISO certified conditions are 27°C DB and 19°C WB in cooling and 20°C DB in heating. Table does not reflect fan or pump power corrections for AHRI/ISO conditions.

All performance data 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 4°C EWT is based upon a 20% methanol antifreeze solution.

Operation below 16°C EWT requires optional insulated water/refrigerant circuit.

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

Gray shaded area in cooling refers to not recommended continuous operation below 10°C water

Performance Data – TC H/V 018 Cooling

230 I/S Nominal Airflow

Performance capacities shown in kW

WA	ATER / BRI	INE					COOLING-EAT	27/19° C				
EWT	FLOW	PD		sc	Sens/Tot	Po	wer kW	HR	Е	СМ	Р	sc
°C	I/s	kPa	TC kW	kW	Ratio	ECM	PSC	kW	EER W/W	SEER W/W	EER W/W	SEER W/W
	0.11	9.1							00700	W	W	WA
-5	0.16	28.7				OPER	ATION NOT RE	COMMEN	DED			
	0.21	53.4										
	0.11	8.1	5.49	3.87	0.71	0.65	0.70	6.13	28.9	17.7	26.8	16.9
0	0.16	21.0	5.51	3.86	0.70	0.59	0.64	6.10	32.1	18.9	29.6	18.0
	0.21	35.0	5.49	3.83	0.70	0.56	0.61	6.05	33.5	19.4	30.8	18.4
	0.11	6.7	5.38	3.84	0.71	0.72	0.77	6.10	25.4	16.2	23.7	15.5
5	0.16	18.5	5.48	3.87	0.71	0.65	0.70	6.13	28.7	17.6	26.6	16.8
	0.21	31.9	5.51	3.87	0.70	0.62	0.67	6.13	30.3	18.3	28.0	17.4
	0.11	5.6	5.20	3.76	0.72	0.81	0.86	6.01	22.0	14.6	20.7	14.0
10	0.16	16.3	5.36	3.83	0.71	0.73	0.78	6.09	25.1	16.1	23.4	15.4
	0.21	28.9	5.43	3.86	0.71	0.69	0.74	6.12	26.7	16.8	24.9	16.1
	0.11	4.5	4.98	3.66	0.73	0.90	0.95	5.88	18.9	13.0	17.9	12.5
15	0.16	14.0	5.18	3.75	0.72	0.82	0.87	6.00	21.7	14.5	20.4	13.9
	0.21	25.9	5.27	3.79	0.72	0.78	0.83	6.05	23.2	15.2	21.7	14.6
	0.11	3.4	4.72	3.53	0.75	1.00	1.05	5.72	16.1	11.5	15.3	11.1
20	0.16	11.8	4.95	3.64	0.74	0.91	0.96	5.86	18.5	12.8	17.5	12.4
	0.21	23.0	5.06	3.69	0.73	0.87	0.92	5.93	19.9	13.6	18.8	13.0
	0.11	2.3	4.43	3.38	0.76	1.10	1.15	5.53	13.7	10.1	13.1	9.7
25	0.16	9.6	4.68	3.51	0.75	1.01	1.06	5.69	15.8	11.3	15.0	10.9
	0.21	20.0	4.80	3.57	0.74	0.97	1.02	5.77	16.9	11.9	16.1	11.5
	0.11	1.4	4.13	3.23	0.78	1.21	1.26	5.34	11.6	8.7	11.1	8.5
30	0.16	7.5	4.38	3.36	0.77	1.12	1.17	5.50	13.3	9.8	12.7	9.5
	0.21	17.2	4.51	3.42	0.76	1.08	1.13	5.58	14.3	10.4	13.6	10.1
	0.11	1.2	3.81	3.07	0.81	1.33	1.38	5.14	9.8	7.5	9.4	7.3
35	0.16	6.9	4.06	3.20	0.79	1.24	1.29	5.30	11.2	8.5	10.8	8.2
	0.21	16.4	4.19	3.26	0.78	1.19	1.24	5.38	12.0	9.0	11.5	8.7
	0.11	1.1	3.50	2.92	0.83	1.45	1.50	4.94	8.3	6.5	7.9	6.3
40	0.16	6.3	3.73	3.03	0.81	1.35	1.41	5.09	9.4	7.3	9.1	7.1
	0.21	15.5	3.86	3.10	0.80	1.31	1.36	5.17	10.1	7.7	9.7	7.5
	0.11	0.9	3.19	2.77	0.87	1.57	1.62	4.76	6.9	5.5	6.7	5.4
45	0.16	5.8	3.41	2.87	0.84	1.48	1.53	4.89	7.9	6.2	7.6	6.0
	0.21	14.6	3.53	2.93	0.83	1.43	1.48	4.96	8.4	6.6	8.1	6.4

Interpolation is permissible; extrapolation is not.

All entering air conditions are 27°C DB and 19°C WB in cooling and 20°C DB in heating.

AHRI/ISO certified conditions are 27°C DB and 19°C WB in cooling and 20°C DB in heating.

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

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All performance data 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 4°C EWT is based upon a 20% methanol antifreeze solution.

Operation below 16°C EWT requires optional insulated water/refrigerant circuit. See performance correction tables for operating conditions other than those listed above.

Gray shaded area in cooling refers to not recommended continuous operation below 10 $^{\circ}\text{C}$ water

Performance Data – TC H/V 018 Heating

230 I/S Nominal Airflow

Performance capacities shown in kW

WA	TER / BR	INE				Heati	ng - EAT 2	20 °C			
EWT	FLOW	PD	нс	Pow	er kW	HE	LAT	E	CM	PS	SC SC
°C	I/s	kPa	kW	ECM	PSC	kW	C	COP W/W	SCOP W/W	COP W/W	SCOP W/W
	0.11	9.1			OPE	ERATION I	NOT REC	OMMENDI	=n		
-5	0.16	28.7			01.	INATION		- CIMINIZITE			
	0.21	53.4	2.94	0.92	0.97	2.02	30.5	3.2	2.8	3.2	2.8
	0.11	8.1	3.18	0.95	1.00	2.23	31.4	3.4	2.9	3.3	2.9
0	0.16	21.0	3.34	0.97	1.01	2.37	31.9	3.5	3.0	3.4	3.0
	0.21	35.0	3.42	0.97	1.02	2.45	32.2	3.5	3.1	3.5	3.1
	0.11	6.7	3.60	0.99	1.04	2.61	32.9	3.6	3.2	3.6	3.2
5	0.16	18.5	3.77	1.00	1.05	2.77	33.5	3.8	3.3	3.8	3.3
	0.21	31.9	3.86	1.00	1.05	2.85	33.8	3.8	3.4	3.8	3.3
	0.11	5.6	3.99	1.01	1.06	2.98	34.3	3.9	3.4	3.9	3.4
10	0.16	16.3	4.17	1.02	1.07	3.15	34.9	4.1	3.6	4.1	3.6
	0.21	28.9	4.27	1.02	1.07	3.24	35.2	4.2	3.6	4.2	3.6
	0.11	4.5	4.36	1.03	1.08	3.33	35.6	4.2	3.7	4.2	3.7
15	0.16	14.0	4.56	1.03	1.08	3.53	36.3	4.4	3.9	4.4	3.8
	0.21	25.9	4.67	1.04	1.08	3.64	36.7	4.5	3.9	4.5	3.9
	0.11	3.4	4.74	1.04	1.09	3.70	36.9	4.6	4.0	4.5	4.0
20	0.16	11.8	4.97	1.04	1.09	3.93	37.8	4.8	4.2	4.7	4.1
	0.21	23.0	5.10	1.05	1.09	4.06	38.2	4.9	4.3	4.9	4.2
	0.11	2.3	5.13	1.05	1.09	4.08	38.3	4.9	4.3	4.9	4.3
25	0.16	9.6	5.41	1.06	1.10	4.36	39.3	5.1	4.5	5.1	4.5
	0.21	20.0	5.57	1.06	1.11	4.51	39.9	5.3	4.6	5.2	4.6
	0.11	1.4	5.56	1.06	1.11	4.50	39.9	5.2	4.6	5.2	4.5
30	0.16	7.5	5.90	1.08	1.12	4.82	41.1	5.5	4.8	5.5	4.8
	0.21	17.2	6.11	1.09	1.14	5.02	41.8	5.6	4.9	5.6	4.9
	0.11	1.2									
35	0.16	6.9									
	0.21	16.4									
	0.11	1.1									
40	0.16	6.3			ОРЕ	RATION	NOT REC	OMMEND	ĒD		
	0.21	15.5									
	0.11	0.9									
45	0.16	5.8									
	0.21	14.6									

Interpolation is permissible; extrapolation is not. All entering air conditions are 27°C DB and 19°C WB in cooling and 20°C DB in heating.

AHRI/ISO certified conditions are 27°C DB and 19°C WB in cooling and 20°C DB in heating. Table does not reflect fan or pump power corrections for AHRI/ISO conditions.

All performance data 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 4°C EWT is based upon a 20% methanol antifreeze solution.

Operation below 16°C EWT requires optional insulated water/refrigerant circuit.

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

Gray shaded area in cooling refers to not recommended continuous operation below 10°C water

Performance Data – TC H/V 024 Cooling

274 I/S Nominal Airflow

Performance capacities shown in kW

WA	ATER / BRI	INE					COOLING-EA	T 27/19° C				
EWT	FLOW	PD		sc	Sens/Tot	Po	wer kW	HR	E	СМ	P	sc
°C	I/s	kPa	TC kW	kW	Ratio	ECM	PSC	kW	EER W/W	SEER W/W	EER W/W	SEER W/W
	0.17	21.1										
-5	0.26	39.3				OPER	ATION NOT R	ECOMMEND	DED			
	0.35	55.4										
	0.17	15.2	7.09	4.81	0.68	0.87	0.93	7.96	28.0	19.1	25.9	18.1
0	0.26	29.6	7.24	4.90	0.68	0.80	0.87	8.04	30.8	20.4	28.4	19.4
	0.35	48.0	7.31	4.93	0.68	0.77	0.84	8.08	32.3	21.2	29.7	20.0
	0.17	15.0	6.87	4.69	0.68	0.96	1.03	7.83	24.4	17.2	22.8	16.4
5	0.26	27.3	7.04	4.78	0.68	0.89	0.96	7.93	27.0	18.6	25.1	17.7
	0.35	42.3	7.12	4.83	0.68	0.86	0.92	7.97	28.4	19.3	26.3	18.3
	0.17	13.8	6.63	4.54	0.69	1.07	1.13	7.70	21.2	15.4	19.9	14.7
10	0.26	25.4	6.81	4.65	0.68	0.99	1.05	7.80	23.5	16.7	22.0	15.9
	0.35	39.6	6.90	4.70	0.68	0.95	1.02	7.85	24.8	17.4	23.1	16.6
	0.17	12.6	6.36	4.39	0.69	1.19	1.26	7.55	18.3	13.7	17.3	13.1
15	0.26	23.5	6.56	4.50	0.69	1.10	1.17	7.65	20.3	14.9	19.2	14.3
	0.35	36.9	6.65	4.55	0.68	1.06	1.12	7.71	21.5	15.6	20.2	14.9
	0.17	11.4	6.06	4.23	0.70	1.32	1.39	7.39	15.6	12.0	14.8	11.5
20	0.26	21.5	6.27	4.34	0.69	1.23	1.29	7.50	17.4	13.2	16.5	12.6
	0.35	34.2	6.38	4.40	0.69	1.18	1.25	7.56	18.4	13.8	17.4	13.2
	0.17	10.3	5.74	4.06	0.71	1.48	1.55	7.22	13.2	10.4	12.6	10.1
25	0.26	19.6	5.97	4.18	0.70	1.37	1.44	7.34	14.8	11.5	14.1	11.1
	0.35	31.4	6.07	4.23	0.70	1.32	1.39	7.39	15.7	12.1	14.9	11.6
	0.17	9.2	5.40	3.90	0.72	1.66	1.73	7.06	11.1	9.0	10.7	8.7
30	0.26	17.8	5.63	4.01	0.71	1.54	1.60	7.17	12.5	10.0	12.0	9.6
	0.35	28.9	5.75	4.07	0.71	1.48	1.55	7.23	13.3	10.5	12.7	10.1
	0.17	8.8	5.03	3.72	0.74	1.85	1.92	6.89	9.3	7.7	8.9	7.4
35	0.26	17.2	5.27	3.84	0.73	1.72	1.79	7.00	10.4	8.5	10.0	8.2
	0.35	27.9	5.39	3.89	0.72	1.66	1.73	7.05	11.1	9.0	10.7	8.7
	0.17	8.5	4.64	3.55	0.76	2.07	2.14	6.72	7.6	6.4	7.4	6.3
40	0.26	16.5	4.89	3.66	0.75	1.93	2.00	6.82	8.6	7.2	8.3	7.0
	0.35	26.9	5.02	3.72	0.74	1.86	1.93	6.88	9.2	7.6	8.9	7.4
	0.17	8.1	4.23	3.36	0.79	2.32	2.39	6.55	6.2	5.3	6.0	5.2
45	0.26	15.8	4.49	3.48	0.77	2.17	2.23	6.65	7.1	6.0	6.8	5.8
	0.35	25.8	4.61	3.53	0.77	2.09	2.16	6.70	7.5	6.4	7.3	6.2

Interpolation is permissible; extrapolation is not.

All entering air conditions are 27°C DB and 19°C WB in cooling and 20°C DB in heating.

AHRI/ISO certified conditions are 27°C DB and 19°C WB in cooling and 20°C DB in heating.

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

ClimateMaster works continually to improve its products. As a result, the design and specifications of each product at the time of order may be changed without notice and may not be as described herein. Please contact ClimateMaster's Customer 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, but are merely ClimateMaster's opinion or commendation of its products. The latest version of this document is available at climatemaster.com.

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All performance data 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 4°C EWT is based upon a 20% methanol antifreeze solution.

Operation below 16°C EWT requires optional insulated water/refrigerant circuit. See performance correction tables for operating conditions other than those listed above.

Gray shaded area in cooling refers to not recommended continuous operation below 10 $^{\circ}\text{C}$ water

Performance Data - TC H/V 024 Heating

274 I/S Nominal Airflow

Performance capacities shown in kW

WA	TER / BR	NE				Heati	ng - EAT 2	20 °C			
EWT	FLOW	PD	нс	Pow	er kW	HE	LAT	EC	CM	PS	SC SC
°C	I/s	kPa	kW	ECM	PSC	kW	C	COP W/W	SCOP W/W	COP W/W	SCOP W/W
	0.17	21.1			OPE	RATION I	NOT REC	OMMENDI	=n		
-5	0.26	39.3			01.	INATION	NOT KE				
	0.35	55.4	3.66	1.31	1.38	2.35	31.1	2.8	2.4	2.8	2.4
	0.17	15.2	4.09	1.33	1.40	2.76	32.4	3.1	2.7	3.1	2.7
0	0.26	29.6	4.26	1.34	1.40	2.92	32.9	3.2	2.8	3.2	2.8
	0.35	48.0	4.35	1.34	1.41	3.01	33.1	3.2	2.8	3.2	2.8
	0.17	15.0	4.71	1.36	1.43	3.35	34.2	3.5	3.0	3.4	3.0
5	0.26	27.3	4.91	1.37	1.44	3.54	34.8	3.6	3.1	3.6	3.1
	0.35	42.3	5.02	1.38	1.45	3.64	35.1	3.6	3.2	3.6	3.2
	0.17	13.8	5.31	1.40	1.46	3.91	36.0	3.8	3.3	3.8	3.3
10	0.26	25.4	5.53	1.42	1.48	4.12	36.7	3.9	3.4	3.9	3.4
	0.35	39.6	5.65	1.42	1.49	4.23	37.1	4.0	3.5	4.0	3.5
	0.17	12.6	5.89	1.44	1.51	4.44	37.8	4.1	3.6	4.1	3.6
15	0.26	23.5	6.13	1.46	1.53	4.67	38.5	4.2	3.7	4.2	3.7
	0.35	36.9	6.26	1.48	1.54	4.78	38.9	4.2	3.7	4.2	3.7
	0.17	11.4	6.44	1.49	1.56	4.95	39.4	4.3	3.8	4.3	3.8
20	0.26	21.5	6.70	1.52	1.58	5.18	40.2	4.4	3.9	4.4	3.9
	0.35	34.2	6.83	1.53	1.60	5.30	40.6	4.5	3.9	4.5	3.9
	0.17	10.3	6.97	1.55	1.61	5.42	41.0	4.5	3.9	4.5	3.9
25	0.26	19.6	7.24	1.57	1.64	5.66	41.8	4.6	4.0	4.6	4.0
	0.35	31.4	7.37	1.59	1.65	5.78	42.3	4.6	4.1	4.6	4.0
	0.17	9.2	7.47	1.60	1.66	5.87	42.6	4.7	4.1	4.7	4.1
30	0.26	17.8	7.74	1.63	1.70	6.11	43.4	4.7	4.1	4.7	4.1
	0.35	28.9	7.88	1.65	1.72	6.23	43.8	4.8	4.2	4.8	4.2
	0.17	8.8									
35	0.26	17.2									
	0.35	27.9									
	0.17	8.5									
40	0.26	16.5			ОРЕ	RATION	NOT REC	OMMEND	ĒD		
	0.35	26.9									
	0.17	8.1									
45	0.26	15.8									
	0.35	25.8									

Interpolation is permissible; extrapolation is not. All entering air conditions are 27°C DB and 19°C WB in cooling and 20°C DB in heating.

AHRI/ISO certified conditions are 27°C DB and 19°C WB in cooling and 20°C DB in heating. Table does not reflect fan or pump power corrections for AHRI/ISO conditions.

All performance data 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 4°C EWT is based upon a 20% methanol antifreeze solution.

Operation below 16°C EWT requires optional insulated water/refrigerant circuit.

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

Gray shaded area in cooling refers to not recommended continuous operation below 10°C water

Performance Data – TC H/V 030 Cooling

343 I/S Nominal Airflow

Performance capacities shown in kW

WA	ATER / BR	INE					COOLING-EAT	Г 27/19° С				
EWT	FLOW	PD		sc	Sens/Tot	Po	wer kW	HR	E	СМ	Р	sc
°C	I/s	kPa	TC kW	kW	Ratio	ECM	PSC	kW	EER W/W	SEER W/W	EER W/W	SEER W/W
	0.21	11.6										
-5	0.32	21.8				OPER	ATION NOT R	ECOMMEND	DED			
	0.42	34.6										
	0.21	9.3	8.72	5.68	0.65	1.04	1.18	9.77	28.5	20.6	25.3	18.9
0	0.32	17.9	8.83	5.78	0.65	0.98	1.11	9.81	30.8	21.8	27.2	20.0
	0.42	29.2	8.87	5.82	0.66	0.95	1.08	9.82	31.9	22.4	28.1	20.5
	0.21	7.6	8.51	5.52	0.65	1.15	1.28	9.66	25.3	18.8	22.7	17.3
5	0.32	14.1	8.67	5.64	0.65	1.07	1.20	9.74	27.7	20.1	24.7	18.5
	0.42	22.1	8.75	5.70	0.65	1.03	1.16	9.78	28.9	20.8	25.7	19.1
	0.21	7.1	8.23	5.34	0.65	1.27	1.40	9.50	22.2	16.9	20.1	15.6
10	0.32	13.4	8.44	5.47	0.65	1.18	1.31	9.62	24.5	18.3	22.0	16.9
	0.42	21.0	8.54	5.54	0.65	1.13	1.26	9.67	25.7	19.0	23.0	17.5
	0.21	6.7	7.91	5.14	0.65	1.41	1.54	9.31	19.2	15.0	17.5	13.9
15	0.32	12.6	8.15	5.28	0.65	1.30	1.43	9.45	21.3	16.3	19.4	15.2
	0.42	20.0	8.26	5.36	0.65	1.25	1.38	9.52	22.5	17.1	20.4	15.8
	0.21	6.3	7.54	4.94	0.65	1.56	1.70	9.11	16.4	13.1	15.1	12.3
20	0.32	11.8	7.80	5.08	0.65	1.45	1.58	9.25	18.4	14.4	16.8	13.5
	0.42	18.9	7.93	5.16	0.65	1.39	1.52	9.33	19.4	15.1	17.7	14.1
	0.21	5.8	7.15	4.73	0.66	1.74	1.88	8.89	14.0	11.4	13.0	10.7
25	0.32	11.1	7.42	4.87	0.66	1.62	1.75	9.04	15.7	12.6	14.5	11.8
	0.42	17.9	7.56	4.95	0.65	1.56	1.69	9.12	16.6	13.2	15.3	12.4
	0.21	5.4	6.74	4.54	0.67	1.95	2.08	8.68	11.8	9.8	11.0	9.3
30	0.32	10.4	7.01	4.67	0.67	1.81	1.94	8.82	13.2	10.9	12.3	10.3
	0.42	16.9	7.16	4.74	0.66	1.74	1.87	8.90	14.0	11.5	13.1	10.8
	0.21	5.3	6.32	4.35	0.69	2.17	2.31	8.49	9.9	8.4	9.3	8.0
35	0.32	10.1	6.59	4.47	0.68	2.02	2.15	8.61	11.1	9.3	10.4	8.9
	0.42	16.6	6.74	4.54	0.67	1.95	2.08	8.68	11.8	9.8	11.1	9.3
	0.21	5.1	5.90	4.18	0.71	2.43	2.56	8.33	8.3	7.2	7.9	6.8
40	0.32	9.9	6.17	4.29	0.69	2.26	2.39	8.43	9.3	8.0	8.8	7.6
	0.42	16.2	6.31	4.35	0.69	2.18	2.31	8.49	9.9	8.4	9.3	8.0
	0.21	5.0	5.50	4.02	0.73	2.71	2.85	8.21	6.9	6.1	6.6	5.8
45	0.32	9.6	5.75	4.12	0.72	2.53	2.66	8.28	7.8	6.7	7.4	6.4
	0.42	15.8	5.88	4.17	0.71	2.44	2.57	8.32	8.2	7.1	7.8	6.8
Internolatio												

Interpolation is permissible; extrapolation is not.

All entering air conditions are 27°C DB and 19°C WB in cooling and 20°C DB in heating.

AHRI/ISO certified conditions are 27°C DB and 19°C WB in cooling and 20°C DB in heating.

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

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All performance data 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 4°C EWT is based upon a 20% methanol antifreeze solution.

Operation below 16°C EWT requires optional insulated water/refrigerant circuit. See performance correction tables for operating conditions other than those listed above.

Gray shaded area in cooling refers to not recommended continuous operation below 10 $^{\circ}\text{C}$ water

Performance Data – TC H/V 030 Heating

343 I/S Nominal Airflow

Performance capacities shown in kW

• • • • • • • • • • • • • • • • • • • •	ER / BRI	NE				Heati	ng - EAT 2	20 °C			
EWT	FLOW	PD	нс	Pow	er kW	HE	LAT	EC	СМ	PS	SC SC
°C	I/s	kPa	kW	ECM	PSC	kW	C	COP W/W	SCOP W/W	COP W/W	SCOP W/W
	0.21	11.6			OPE	RATION I	NOT REC	OMMENDI	FD		
-5	0.32	21.8			0	-INATION		O			
	0.42	34.6	4.86	1.65	1.78	3.20	31.7	2.9	2.6	2.9	2.6
	0.21	9.3	5.34	1.70	1.82	3.64	32.9	3.1	2.8	3.1	2.7
0	0.32	17.9	5.57	1.72	1.84	3.85	33.4	3.2	2.8	3.2	2.8
	0.42	29.2	5.69	1.73	1.85	3.97	33.8	3.3	2.9	3.3	2.9
	0.21	7.6	6.12	1.76	1.89	4.36	34.8	3.5	3.0	3.4	3.0
5	0.32	14.1	6.40	1.79	1.91	4.61	35.5	3.6	3.1	3.6	3.1
	0.42	22.1	6.55	1.80	1.93	4.75	35.8	3.6	3.2	3.6	3.2
	0.21	7.1	6.92	1.84	1.96	5.08	36.7	3.8	3.3	3.7	3.3
10	0.32	13.4	7.24	1.86	1.99	5.37	37.5	3.9	3.4	3.9	3.4
	0.42	21.0	7.42	1.88	2.00	5.54	37.9	3.9	3.4	3.9	3.4
	0.21	6.7	7.71	1.91	2.03	5.80	38.6	4.0	3.5	4.0	3.5
15	0.32	12.6	8.07	1.94	2.06	6.13	39.5	4.2	3.6	4.1	3.6
	0.42	20.0	8.27	1.96	2.08	6.31	40.0	4.2	3.7	4.2	3.7
	0.21	6.3	8.49	1.98	2.10	6.50	40.5	4.3	3.7	4.3	3.7
20	0.32	11.8	8.88	2.02	2.14	6.86	41.4	4.4	3.8	4.4	3.8
	0.42	18.9	9.10	2.05	2.17	7.05	42.0	4.4	3.9	4.4	3.9
	0.21	5.8	9.24	2.06	2.18	7.18	42.3	4.5	3.9	4.5	3.9
25	0.32	11.1	9.65	2.11	2.23	7.55	43.3	4.6	4.0	4.6	4.0
	0.42	17.9	9.88	2.13	2.25	7.74	43.9	4.6	4.1	4.6	4.0
	0.21	5.4	9.95	2.14	2.26	7.81	44.0	4.7	4.1	4.6	4.1
30	0.32	10.4	10.37	2.19	2.31	8.18	45.0	4.7	4.1	4.7	4.1
	0.42	16.9	10.59	2.22	2.34	8.37	45.6	4.8	4.2	4.8	4.2
	0.21	5.3									
35	0.32	10.1									
	0.42	16.6									
	0.21	5.1									
40	0.32	9.9			ОРЕ	RATION	NOT REC	OMMEND	ED		
	0.42	16.2									
	0.21	5.0									
45	0.32	9.6									
	0.42	15.8									

Interpolation is permissible; extrapolation is not. All entering air conditions are 27°C DB and 19°C WB in cooling and 20°C DB in heating.

AHRI/ISO certified conditions are 27°C DB and 19°C WB in cooling and 20°C DB in heating. Table does not reflect fan or pump power corrections for AHRI/ISO conditions.

All performance data 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 4°C EWT is based upon a 20% methanol antifreeze solution.

Operation below 16°C EWT requires optional insulated water/refrigerant circuit.

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

Gray shaded area in cooling refers to not recommended continuous operation below 10°C water

Performance Data – TC H/V 036 Cooling

412 I/S Nominal Airflow

Performance capacities shown in kW

WA	ATER / BR	INE					COOLING-EAT	Г 27/19° С				
EWT	FLOW	PD		sc	Sens/Tot	Po	ower kW	HR	Е	СМ	Р	sc
°C	I/s	kPa	TC kW	kW	Ratio	ECM	PSC	kW	EER W/W	SEER W/W	EER W/W	SEER W/W
	0.25	22.8								10/10		
-5	0.37	42.2				OPER	ATION NOT R	ECOMMEND	DED			
	0.49	53.3										
	0.25	20.1	9.92	6.79	0.68	1.33	1.41	11.25	25.5	19.6	24.0	18.7
0	0.37	36.2	10.11	6.89	0.68	1.23	1.31	11.35	28.0	21.2	26.3	20.2
	0.49	48.4	10.21	6.94	0.68	1.18	1.26	11.39	29.5	22.0	27.6	21.0
	0.25	18.3	9.65	6.65	0.69	1.47	1.55	11.12	22.4	17.7	21.2	16.9
5	0.37	33.2	9.85	6.76	0.69	1.37	1.45	11.22	24.6	19.1	23.2	18.2
	0.49	45.1	9.95	6.81	0.68	1.32	1.39	11.27	25.8	19.8	24.3	18.9
	0.25	16.8	9.36	6.51	0.70	1.62	1.70	10.98	19.7	15.8	18.7	15.2
10	0.37	30.7	9.57	6.61	0.69	1.51	1.59	11.08	21.6	17.1	20.5	16.4
	0.49	42.7	9.68	6.67	0.69	1.46	1.54	11.13	22.7	17.8	21.5	17.1
	0.25	15.3	9.03	6.35	0.70	1.80	1.88	10.83	17.2	14.1	16.4	13.6
15	0.37	28.2	9.27	6.46	0.70	1.67	1.75	10.94	18.9	15.3	18.0	14.8
	0.49	40.4	9.38	6.52	0.69	1.61	1.69	10.99	19.9	16.0	18.9	15.4
	0.25	13.8	8.68	6.18	0.71	1.99	2.07	10.67	14.9	12.4	14.3	12.0
20	0.37	25.8	8.93	6.30	0.71	1.85	1.93	10.78	16.5	13.6	15.8	13.1
	0.49	38.0	9.05	6.36	0.70	1.79	1.87	10.84	17.3	14.2	16.6	13.7
	0.25	12.3	8.29	6.01	0.72	2.22	2.30	10.51	12.8	10.9	12.3	10.5
25	0.37	23.3	8.56	6.13	0.72	2.06	2.14	10.62	14.2	12.0	13.7	11.6
	0.49	35.7	8.70	6.19	0.71	1.98	2.06	10.68	15.0	12.5	14.4	12.1
	0.25	10.7	7.86	5.81	0.74	2.48	2.56	10.33	10.8	9.4	10.5	9.1
30	0.37	20.8	8.16	5.95	0.73	2.30	2.38	10.45	12.1	10.4	11.7	10.1
	0.49	33.4	8.30	6.01	0.72	2.21	2.29	10.51	12.8	10.9	12.4	10.6
	0.25	7.8	7.38	5.60	0.76	2.78	2.86	10.16	9.1	8.0	8.8	7.8
35	0.37	17.7	7.70	5.75	0.75	2.57	2.65	10.28	10.2	8.9	9.9	8.7
	0.49	31.2	7.86	5.82	0.74	2.47	2.55	10.34	10.8	9.4	10.5	9.1
	0.25	4.8	6.85	5.36	0.78	3.12	3.20	9.97	7.5	6.7	7.3	6.5
40	0.37	14.7	7.20	5.52	0.77	2.89	2.97	10.09	8.5	7.5	8.3	7.3
	0.49	29.1	7.37	5.60	0.76	2.78	2.86	10.15	9.1	8.0	8.8	7.8
45					OPER	ATION NO	T RECOMMEN	IDED				
45	0.49	27.2	6.84	5.35	0.78	3.13	3.21	9.97	7.4	6.7	7.3	6.5
					I.							

Interpolation is permissible; extrapolation is not. All entering air conditions are 27°C DB and 19°C WB in cooling and 20°C DB in heating.

AHRI/ISO certified conditions are 27°C DB and 19°C WB in cooling and 20°C DB in heating. Table does not reflect fan or pump power corrections for AHRI/ISO conditions.

All performance data 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 4°C EWT is based upon a 20% methanol antifreeze solution.

Operation below 16°C EWT requires optional insulated water/refrigerant circuit. See performance correction tables for operating conditions other than those listed above.

Gray shaded area in cooling refers to not recommended continuous operation below 10 $^{\circ}\text{C}$ water

Performance Data – TC H/V 036 Heating

412 I/S Nominal Airflow

Performance capacities shown in kW

WA	TER / BR	INE				Heati	ng - EAT 2	20 °C			
EWT	FLOW	PD	нс	Pow	er kW	HE	LAT	E	СМ	PS	SC SC
°C	I/s	kPa	kW	ECM	PSC	kW	C	COP W/W	SCOP W/W	COP W/W	SCOP W/W
	0.25	22.8			OPI	FRATION	NOT REC	OMMENDI	FD		
-5	0.37	42.2			011	LICATION	NOT KEO				
	0.49	53.3	6.25	2.11	2.19	4.14	32.5	3.0	2.6	3.0	2.6
	0.25	20.1	6.69	2.15	2.23	4.53	33.4	3.1	2.7	3.1	2.7
0	0.37	36.2	6.93	2.17	2.25	4.75	33.9	3.2	2.8	3.2	2.8
	0.49	48.4	7.05	2.19	2.26	4.87	34.1	3.2	2.8	3.2	2.8
	0.25	18.3	7.45	2.22	2.30	5.22	34.9	3.4	2.9	3.3	2.9
5	0.37	33.2	7.73	2.25	2.33	5.48	35.5	3.4	3.0	3.4	3.0
	0.49	45.1	7.88	2.26	2.34	5.62	35.8	3.5	3.0	3.5	3.0
	0.25	16.8	8.23	2.30	2.37	5.93	36.5	3.6	3.1	3.6	3.1
10	0.37	30.7	8.55	2.33	2.40	6.22	37.1	3.7	3.2	3.7	3.2
	0.49	42.7	8.73	2.34	2.42	6.38	37.5	3.7	3.3	3.7	3.3
	0.25	15.3	9.01	2.37	2.45	6.64	38.0	3.8	3.3	3.8	3.3
15	0.37	28.2	9.39	2.41	2.48	6.98	38.8	3.9	3.4	3.9	3.4
	0.49	40.4	9.59	2.43	2.50	7.16	39.2	3.9	3.5	3.9	3.4
	0.25	13.8	9.81	2.45	2.53	7.36	39.6	4.0	3.5	4.0	3.5
20	0.37	25.8	10.22	2.49	2.57	7.73	40.5	4.1	3.6	4.1	3.6
	0.49	38.0	10.45	2.52	2.59	7.93	40.9	4.2	3.6	4.1	3.6
	0.25	12.3	10.61	2.53	2.61	8.08	41.2	4.2	3.7	4.2	3.7
25	0.37	23.3	11.07	2.58	2.66	8.49	42.1	4.3	3.7	4.3	3.7
	0.49	35.7	11.31	2.61	2.68	8.70	42.6	4.3	3.8	4.3	3.8
	0.25	10.7	11.41	2.62	2.69	8.79	42.8	4.4	3.8	4.3	3.8
30	0.37	20.8	11.91	2.67	2.75	9.23	43.8	4.5	3.9	4.4	3.9
	0.49	33.4	12.17	2.70	2.78	9.46	44.4	4.5	3.9	4.5	3.9
	0.25	7.8									
35	0.37	17.7									
	0.49	31.2									
	0.25	4.8									
40	0.37	14.7			ОРІ	ERATION	NOT REC	OMMENDI	ED		
	0.49	29.1									
45											

Interpolation is permissible; extrapolation is not.

All entering air conditions are 27°C DB and 19°C WB in cooling and 20°C DB in heating.

AHRI/ISO certified conditions are 27°C DB and 19°C WB in cooling and 20°C DB in heating.

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

All performance data 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 4°C EWT is based upon a 20% methanol antifreeze solution.

Operation below 16°C EWT requires optional insulated water/refrigerant circuit.

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

Gray shaded area in cooling refers to not recommended continuous operation below 10°C water

Performance Data – TC H/V 042 Cooling

480 I/S Nominal Airflow

Performance capacities shown in kW

WA	ATER / BRI	NE					COOLING-EAT	27/19° C				
EWT	FLOW	PD		sc	Sens/Tot	Po	ower kW	HR	Е	СМ	Р	sc
°C	I/s	kPa	TC kW	kW	Ratio	ECM	PSC	kW	EER W/W	SEER W/W	EER W/W	SEER W/W
	0.28	16.4										
-5	0.43	29.6				OPER	ATION NOT RE	ECOMMEND	ED			
	0.57	46.4										
	0.28	13.9	11.79	7.91	0.67	1.54	1.70	13.33	26.2	20.9	23.6	19.2
0	0.43	25.4	11.80	7.84	0.66	1.44	1.61	13.25	27.9	21.9	25.0	20.1
	0.57	40.5	11.78	7.78	0.66	1.41	1.57	13.18	28.6	22.3	25.6	20.4
	0.28	10.4	11.66	7.91	0.68	1.68	1.85	13.34	23.7	19.2	21.5	17.8
5	0.43	18.7	11.77	7.91	0.67	1.57	1.74	13.34	25.6	20.5	23.1	18.9
	0.57	29.0	11.80	7.90	0.67	1.52	1.69	13.32	26.5	21.0	23.9	19.4
	0.28	10.0	11.41	7.83	0.69	1.84	2.01	13.25	21.1	17.4	19.3	16.2
10	0.43	17.9	11.61	7.90	0.68	1.72	1.88	13.32	23.1	18.8	21.0	17.4
	0.57	27.8	11.68	7.91	0.68	1.66	1.82	13.34	24.1	19.4	21.8	18.0
	0.28	9.5	11.06	7.70	0.70	2.04	2.21	13.10	18.5	15.6	17.1	14.6
15	0.43	17.1	11.33	7.80	0.69	1.89	2.06	13.22	20.4	17.0	18.8	15.8
	0.57	26.7	11.44	7.85	0.69	1.82	1.99	13.27	21.4	17.6	19.6	16.4
	0.28	9.0	10.65	7.52	0.71	2.25	2.42	12.90	16.1	13.8	15.0	12.9
20	0.43	16.3	10.96	7.65	0.70	2.09	2.26	13.05	17.9	15.1	16.5	14.1
	0.57	25.6	11.11	7.71	0.69	2.01	2.18	13.12	18.8	15.8	17.4	14.8
	0.28	8.5	10.17	7.30	0.72	2.49	2.66	12.67	13.9	12.1	13.0	11.4
25	0.43	15.4	10.52	7.46	0.71	2.32	2.48	12.84	15.5	13.3	14.4	12.5
	0.57	24.5	10.69	7.53	0.70	2.23	2.40	12.92	16.4	13.9	15.2	13.1
	0.28	8.0	9.66	7.08	0.73	2.76	2.93	12.42	12.0	10.5	11.2	10.0
30	0.43	14.7	10.03	7.24	0.72	2.57	2.74	12.60	13.3	11.6	12.5	11.0
	0.57	23.4	10.21	7.32	0.72	2.47	2.64	12.68	14.1	12.2	13.2	11.5
	0.28	7.9	9.13	6.84	0.75	3.05	3.22	12.18	10.2	9.1	9.7	8.7
35	0.43	14.4	9.50	7.00	0.74	2.84	3.01	12.35	11.4	10.1	10.8	9.6
	0.57	23.0	9.69	7.09	0.73	2.74	2.91	12.43	12.1	10.6	11.3	10.1
	0.28	7.8	8.60	6.61	0.77	3.37	3.54	11.96	8.7	7.9	8.3	7.5
40	0.43	14.2	8.96	6.77	0.75	3.15	3.32	12.11	9.7	8.7	9.2	8.3
	0.57	22.7	9.15	6.85	0.75	3.04	3.21	12.19	10.3	9.2	9.7	8.7
	0.28	7.6	8.07	6.40	0.79	3.71	3.89	11.78	7.4	6.8	7.1	6.5
45	0.43	13.9	8.42	6.54	0.78	3.48	3.65	11.90	8.3	7.5	7.9	7.2
	0.57	22.3	8.60	6.61	0.77	3.36	3.53	11.97	8.7	7.9	8.3	7.5
Internolatio												

Interpolation is permissible; extrapolation is not.

All entering air conditions are 27°C DB and 19°C WB in cooling and 20°C DB in heating.

AHRI/ISO certified conditions are 27°C DB and 19°C WB in cooling and 20°C DB in heating.

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

All performance data 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 4°C EWT is based upon a 20% methanol antifreeze solution.

Operation below 16°C EWT requires optional insulated water/refrigerant circuit. See performance correction tables for operating conditions other than those listed above.

Gray shaded area in cooling refers to not recommended continuous operation below 10 $^{\circ}\text{C}$ water

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Performance Data - TC H/V 042 Heating

480 I/S Nominal Airflow

Performance capacities shown in kW

FLOW PD HC RW ECM PSC RW LAT C COP SCOP W/W W/	2.7 2.8 2.9 3.0 3.1 3.2 3.3
°C I/s kPa kW ECM PSC kW C COP W/W SCOP W/W COP W/W 0.28 16.4 0.43 29.6 OPERATION NOT RECOMMENDED 0.57 46.4 7.35 2.39 2.56 4.96 32.7 3.1 2.7 3.1 0.28 13.9 7.95 2.44 2.60 5.51 33.7 3.3 2.8 3.2 0.43 25.4 8.31 2.47 2.63 5.84 34.3 3.4 2.9 3.4 0.57 40.5 8.50 2.48 2.64 6.02 34.7 3.4 3.0 3.4 0.28 10.4 9.01 2.53 2.68 6.48 35.5 3.6 3.1 3.5 5 0.43 18.7 9.43 2.56 2.72 6.86 36.3 3.7 3.2 3.7 0.57 29.0 9.66 2.58 2.74 7.07 36.7 3.7	2.7 2.8 2.9 3.0 3.1 3.2 3.3
OPERATION NOT RECOMMENDED 0.43 29.6 0.57 46.4 7.35 2.39 2.56 4.96 32.7 3.1 2.7 3.1 0.28 13.9 7.95 2.44 2.60 5.51 33.7 3.3 2.8 3.2 0.43 25.4 8.31 2.47 2.63 5.84 34.3 3.4 2.9 3.4 0.57 40.5 8.50 2.48 2.64 6.02 34.7 3.4 3.0 3.4 0.28 10.4 9.01 2.53 2.68 6.48 35.5 3.6 3.1 3.5 5 0.43 18.7 9.43 2.56 2.72 6.86 36.3 3.7 3.2 3.7 0.57 29.0 9.66 2.58 2.74 7.07 36.7 3.7 3.3 3.7	2.8 2.9 3.0 3.1 3.2 3.3
-5 0.43 29.6 0.57 46.4 7.35 2.39 2.56 4.96 32.7 3.1 2.7 3.1 0.28 13.9 7.95 2.44 2.60 5.51 33.7 3.3 2.8 3.2 0.43 25.4 8.31 2.47 2.63 5.84 34.3 3.4 2.9 3.4 0.57 40.5 8.50 2.48 2.64 6.02 34.7 3.4 3.0 3.4 0.28 10.4 9.01 2.53 2.68 6.48 35.5 3.6 3.1 3.5 5 0.43 18.7 9.43 2.56 2.72 6.86 36.3 3.7 3.2 3.7 0.57 29.0 9.66 2.58 2.74 7.07 36.7 3.7 3.3 3.7	2.8 2.9 3.0 3.1 3.2 3.3
0.28 13.9 7.95 2.44 2.60 5.51 33.7 3.3 2.8 3.2 0 0.43 25.4 8.31 2.47 2.63 5.84 34.3 3.4 2.9 3.4 0.57 40.5 8.50 2.48 2.64 6.02 34.7 3.4 3.0 3.4 0.28 10.4 9.01 2.53 2.68 6.48 35.5 3.6 3.1 3.5 5 0.43 18.7 9.43 2.56 2.72 6.86 36.3 3.7 3.2 3.7 0.57 29.0 9.66 2.58 2.74 7.07 36.7 3.7 3.3 3.7	2.8 2.9 3.0 3.1 3.2 3.3
0 0.43 25.4 8.31 2.47 2.63 5.84 34.3 3.4 2.9 3.4 0.57 40.5 8.50 2.48 2.64 6.02 34.7 3.4 3.0 3.4 0.28 10.4 9.01 2.53 2.68 6.48 35.5 3.6 3.1 3.5 5 0.43 18.7 9.43 2.56 2.72 6.86 36.3 3.7 3.2 3.7 0.57 29.0 9.66 2.58 2.74 7.07 36.7 3.7 3.3 3.7	2.9 3.0 3.1 3.2 3.3
0.57 40.5 8.50 2.48 2.64 6.02 34.7 3.4 3.0 3.4 0.28 10.4 9.01 2.53 2.68 6.48 35.5 3.6 3.1 3.5 5 0.43 18.7 9.43 2.56 2.72 6.86 36.3 3.7 3.2 3.7 0.57 29.0 9.66 2.58 2.74 7.07 36.7 3.7 3.3 3.7	3.0 3.1 3.2 3.3
5 10.4 9.01 2.53 2.68 6.48 35.5 3.6 3.1 3.5 5 0.43 18.7 9.43 2.56 2.72 6.86 36.3 3.7 3.2 3.7 0.57 29.0 9.66 2.58 2.74 7.07 36.7 3.7 3.3 3.7	3.1 3.2 3.3
5 0.43 18.7 9.43 2.56 2.72 6.86 36.3 3.7 3.2 3.7 0.57 29.0 9.66 2.58 2.74 7.07 36.7 3.7 3.3 3.7	3.2 3.3
0.57 29.0 9.66 2.58 2.74 7.07 36.7 3.7 3.3 3.7	3.3
0.28 10.0 10.06 2.62 2.78 7.44 37.4 3.8 3.4 3.8	3.3
10 0.43 17.9 10.54 2.67 2.83 7.88 38.2 4.0 3.5 3.9	3.4
0.57 27.8 10.80 2.69 2.85 8.11 38.6 4.0 3.5 4.0	3.5
0.28 9.5 11.11 2.72 2.88 8.39 39.2 4.1 3.6 4.1	3.6
15 0.43 17.1 11.64 2.78 2.93 8.86 40.1 4.2 3.7 4.2	3.7
0.57 26.7 11.93 2.81 2.96 9.12 40.6 4.3 3.7 4.2	3.7
0.28 9.0 12.14 2.83 2.98 9.31 40.9 4.3 3.8 4.3	3.7
20 0.43 16.3 12.71 2.89 3.04 9.82 41.9 4.4 3.8 4.4	3.8
0.57 25.6 13.01 2.92 3.08 10.09 42.4 4.5 3.9 4.4	3.9
0.28 8.5 13.13 2.93 3.09 10.20 42.7 4.5 3.9 4.5	3.9
25 0.43 15.4 13.72 3.00 3.15 10.73 43.7 4.6 4.0 4.6	4.0
0.57 24.5 14.04 3.03 3.19 11.01 44.2 4.6 4.1 4.6	4.0
0.28 8.0 14.08 3.03 3.19 11.04 44.3 4.6 4.1 4.6	4.0
30 0.43 14.7 14.68 3.10 3.26 11.58 45.3 4.7 4.1 4.7	4.1
0.57 23.4 14.99 3.13 3.29 11.86 45.9 4.8 4.2 4.8	4.2
0.28 7.9	
35 0.43 14.4	
0.57 23.0	
0.28 7.8	
40 0.43 14.2 OPERATION NOT RECOMMENDED	
0.57 22.7	
0.28 7.6	
45 0.43 13.9	
0.57 22.3	

Interpolation is permissible; extrapolation is not.

All entering air conditions are 27°C DB and 19°C WB in cooling and 20°C DB in heating.

AHRI/ISO certified conditions are 27°C DB and 19°C WB in cooling and 20°C DB in heating.

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

All performance data 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 4°C EWT is based upon a 20% methanol antifreeze solution. Operation below 16°C EWT requires optional insulated water/refrigerant circuit.

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

Gray shaded area in cooling refers to not recommended continuous operation below 10°C water

Performance Data – TC H/V 048 Cooling

549 I/S Nominal Airflow

Performance capacities shown in kW

WA	ATER / BRI	NE					COOLING-EAT	27/19° C				
EWT	FLOW	PD		sc	Sens/Tot	Po	ower kW	HR	E	СМ	Р	sc
°C	I/s	kPa	TC kW	kW	Ratio	ECM	PSC	kW	EER W/W	SEER W/W	EER W/W	SEER W/W
	0.38	19.7										
-5	0.57	36.9				OPER	ATION NOT RE	COMMEND	ED			
	0.76	59.0										
	0.38	16.6	13.43	9.25	0.69	1.69	1.81	15.11	27.2	22.0	25.3	20.8
0	0.57	31.9	13.33	9.13	0.69	1.60	1.72	14.93	28.5	22.9	26.5	21.6
	0.76	51.9	13.25	9.05	0.68	1.56	1.68	14.81	29.1	23.2	27.0	21.9
	0.38	13.7	13.39	9.32	0.70	1.85	1.97	15.24	24.7	20.4	23.2	19.4
5	0.57	25.4	13.44	9.29	0.69	1.74	1.86	15.18	26.3	21.5	24.6	20.4
	0.76	40.0	13.43	9.26	0.69	1.69	1.81	15.12	27.1	22.0	25.3	20.8
	0.38	13.1	13.18	9.26	0.70	2.04	2.17	15.22	22.0	18.5	20.8	17.6
10	0.57	24.3	13.34	9.31	0.70	1.91	2.04	15.25	23.8	19.8	22.4	18.8
	0.76	38.5	13.39	9.32	0.70	1.85	1.98	15.24	24.6	20.4	23.1	19.3
	0.38	12.4	12.83	9.13	0.71	2.27	2.39	15.10	19.3	16.5	18.3	15.8
15	0.57	23.3	13.07	9.22	0.71	2.12	2.24	15.19	21.1	17.8	19.9	17.0
	0.76	37.1	13.17	9.26	0.70	2.05	2.17	15.22	21.9	18.5	20.7	17.6
	0.38	11.8	12.37	8.92	0.72	2.52	2.65	14.89	16.7	14.5	15.9	13.9
20	0.57	22.2	12.67	9.06	0.71	2.35	2.48	15.03	18.4	15.8	17.5	15.1
	0.76	35.6	12.82	9.12	0.71	2.27	2.40	15.09	19.2	16.4	18.2	15.7
	0.38	11.1	11.83	8.68	0.73	2.81	2.94	14.64	14.3	12.7	13.7	12.2
25	0.57	21.2	12.18	8.84	0.73	2.63	2.75	14.80	15.8	13.8	15.1	13.3
	0.76	34.2	12.34	8.91	0.72	2.54	2.66	14.88	16.6	14.4	15.8	13.9
	0.38	10.5	11.24	8.41	0.75	3.14	3.27	14.38	12.2	10.9	11.7	10.5
30	0.57	20.2	11.61	8.58	0.74	2.93	3.06	14.54	13.5	12.0	12.9	11.5
	0.76	32.8	11.79	8.66	0.73	2.83	2.96	14.63	14.2	12.5	13.6	12.1
	0.38	10.3	10.62	8.14	0.77	3.51	3.64	14.13	10.3	9.3	10.0	9.0
35	0.57	19.8	11.00	8.30	0.76	3.28	3.41	14.28	11.4	10.3	11.0	9.9
	0.76	32.2	11.19	8.39	0.75	3.17	3.29	14.36	12.0	10.8	11.6	10.4
	0.38	10.1	10.00	7.88	0.79	3.93	4.05	13.92	8.7	8.0	8.4	7.7
40	0.57	19.4	10.37	8.03	0.77	3.67	3.80	14.04	9.6	8.8	9.3	8.5
	0.76	31.7	10.56	8.11	0.77	3.55	3.67	14.11	10.1	9.2	9.8	8.9
	0.38	9.9	9.40	7.65	0.81	4.39	4.52	13.78	7.3	6.8	7.1	6.6
45	0.57	19.0	9.74	7.78	0.80	4.11	4.23	13.85	8.1	7.4	7.8	7.2
	0.76	31.1	9.93	7.85	0.79	3.98	4.10	13.90	8.5	7.8	8.3	7.6
Internalatio		lo: ovtranol	1		J J	0.00					0.0	

Interpolation is permissible; extrapolation is not.

All entering air conditions are 27°C DB and 19°C WB in cooling and 20°C DB in heating.

AHRI/ISO certified conditions are 27°C DB and 19°C WB in cooling and 20°C DB in heating.

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

All performance data 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 4°C EWT is based upon a 20% methanol antifreeze solution.

Operation below 16°C EWT requires optional insulated water/refrigerant circuit.

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

Gray shaded area in cooling refers to not recommended continuous operation below 10°C water

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Performance Data - TC H/V 048 Heating

549 I/S Nominal Airflow

Performance capacities shown in kW

W	ATER / BRI	INE .				Heati	ng - EAT :	20 °C	renormance		
EWT	FLOW	PD	нс	Pow	er kW	HE	LAT	E	CM	PS	sc
°C	I/s	kPa	kW	ECM	PSC	kW	C	COP W/W	SCOP W/W	COP W/W	SCOP W/W
	0.38	19.7			OBI	EDATION	NOT BEC	OMMENDI	ED.		
-5	0.57	36.9			OF	ERATION	VOI KEU	OWINEND	-U		
	0.76	59.0	8.28	2.53	2.65	5.75	32.5	3.3	2.9	3.3	2.9
	0.38	16.6	8.92	2.58	2.70	6.34	33.5	3.5	3.0	3.4	3.0
0	0.57	31.9	9.23	2.61	2.73	6.62	33.9	3.5	3.1	3.5	3.1
	0.76	51.9	9.39	2.62	2.74	6.77	34.2	3.6	3.1	3.6	3.1
	0.38	13.7	9.99	2.67	2.79	7.32	35.1	3.7	3.3	3.7	3.3
5	0.57	25.4	10.35	2.70	2.82	7.65	35.6	3.8	3.4	3.8	3.3
	0.76	40.0	10.54	2.72	2.83	7.83	35.9	3.9	3.4	3.9	3.4
	0.38	13.1	11.07	2.76	2.88	8.31	36.7	4.0	3.5	4.0	3.5
10	0.57	24.3	11.47	2.79	2.91	8.68	37.3	4.1	3.6	4.1	3.6
	0.76	38.5	11.69	2.81	2.93	8.87	37.6	4.2	3.6	4.1	3.6
	0.38	12.4	12.13	2.85	2.97	9.28	38.3	4.3	3.7	4.2	3.7
15	0.57	23.3	12.56	2.89	3.00	9.67	39.0	4.3	3.8	4.3	3.8
	0.76	37.1	12.78	2.91	3.02	9.87	39.3	4.4	3.8	4.4	3.8
	0.38	11.8	13.13	2.94	3.05	10.19	39.8	4.5	3.9	4.5	3.9
20	0.57	22.2	13.55	2.97	3.09	10.58	40.5	4.6	4.0	4.5	4.0
	0.76	35.6	13.77	2.99	3.11	10.78	40.8	4.6	4.0	4.6	4.0
	0.38	11.1	14.02	3.02	3.13	11.01	41.2	4.6	4.1	4.6	4.1
25	0.57	21.2	14.42	3.05	3.17	11.36	41.8	4.7	4.1	4.7	4.1
	0.76	34.2	14.60	3.07	3.19	11.54	42.0	4.8	4.2	4.8	4.2
	0.38	10.5	14.77	3.08	3.20	11.69	42.3	4.8	4.2	4.8	4.2
30	0.57	20.2	15.09	3.11	3.23	11.98	42.8	4.8	4.2	4.8	4.2
	0.76	32.8	15.22	3.12	3.24	12.10	43.0	4.9	4.3	4.9	4.3
	0.38	10.3									
35	0.57	19.8									
	0.76	32.2									
	0.38	10.1									
40	0.57	19.4			ОРЕ	ERATION	NOT REC	OMMEND	ED		
	0.76	31.7									
	0.38	9.9									
45	0.57	19.0									
	0.76	31.1									
	·										

Interpolation is permissible; extrapolation is not.

All entering air conditions are 27°C DB and 19°C WB in cooling and 20°C DB in heating.

AHRI/ISO certified conditions are 27°C DB and 19°C WB in cooling and 20°C DB in heating.

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

All performance data 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 4°C EWT is based upon a 20% methanol antifreeze solution.

Operation below 16°C EWT requires optional insulated water/refrigerant circuit.

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

Gray shaded area in cooling refers to not recommended continuous operation below 10°C water

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Performance Data – TC H/V 060 Cooling

686 I/S Nominal Airflow

Performance capacities shown in kW

WA	ATER / BRI	NE				C	OOLING-EA	T 27/19° C				
EWT	FLOW	PD		sc	Sens/Tot	Pov	ver kW	HR	E	СМ	Р	sc
°C	I/s	kPa	TC kW	kW	Ratio	HR kW	EER W/W	kW	EER W/W	SEER W/W	EER W/W	SEER W/W
	0.39	30.6										
-5	0.59	59.2				OPER#	TION NOT F	RECOMMEND	ED			
	0.79	96.2										
	0.39	25.7	17.14	11.47	0.67	2.27	2.55	19.41	25.8	22.1	22.9	19.9
0	0.59	51.5	17.11	11.51	0.67	2.17	2.46	19.28	26.9	22.8	23.8	20.6
	0.79	85.6	17.04	11.51	0.68	2.14	2.42	19.17	27.2	23.0	24.0	20.7
	0.39	22.9	16.99	11.36	0.67	2.43	2.72	19.42	23.8	20.6	21.3	18.7
5	0.59	43.2	17.13	11.45	0.67	2.30	2.58	19.42	25.5	21.8	22.6	19.7
	0.79	69.2	17.15	11.48	0.67	2.24	2.52	19.39	26.1	22.3	23.2	20.1
	0.39	21.7	16.66	11.21	0.67	2.65	2.94	19.31	21.5	18.8	19.3	17.1
10	0.59	41.5	16.94	11.34	0.67	2.47	2.76	19.41	23.4	20.3	20.9	18.4
	0.79	66.9	17.04	11.39	0.67	2.40	2.68	19.43	24.3	20.9	21.7	19.0
	0.39	20.6	16.19	11.01	0.68	2.91	3.20	19.10	19.0	16.8	17.2	15.5
15	0.59	39.7	16.57	11.17	0.67	2.70	2.99	19.27	20.9	18.4	18.9	16.8
	0.79	64.5	16.73	11.24	0.67	2.60	2.89	19.34	21.9	19.1	19.7	17.5
	0.39	19.5	15.62	10.78	0.69	3.21	3.51	18.83	16.6	14.9	15.2	13.8
20	0.59	38.0	16.08	10.97	0.68	2.97	3.26	19.05	18.5	16.4	16.8	15.1
	0.79	62.2	16.28	11.05	0.68	2.86	3.15	19.14	19.4	17.2	17.6	15.8
	0.39	18.4	14.98	10.52	0.70	3.55	3.85	18.53	14.4	13.0	13.3	12.1
25	0.59	36.3	15.48	10.72	0.69	3.29	3.58	18.77	16.1	14.4	14.7	13.4
	0.79	59.8	15.72	10.82	0.69	3.16	3.45	18.88	17.0	15.2	15.5	14.0
	0.39	17.3	14.29	10.24	0.72	3.93	4.23	18.23	12.4	11.4	11.5	10.6
30	0.59	34.7	14.81	10.45	0.71	3.64	3.93	18.46	13.9	12.6	12.8	11.8
	0.79	57.6	15.07	10.56	0.70	3.50	3.79	18.58	14.7	13.3	13.5	12.4
	0.39	17.0	13.59	9.94	0.73	4.35	4.64	17.94	10.7	9.9	10.0	9.3
35	0.59	34.1	14.11	10.16	0.72	4.04	4.33	18.15	11.9	11.0	11.1	10.3
	0.79	56.8	14.38	10.27	0.71	3.88	4.17	18.26	12.6	11.6	11.7	10.8
	0.39	16.7	12.91	9.64	0.75	4.79	5.09	17.70	9.2	8.6	8.6	8.1
40	0.59	33.5	13.41	9.86	0.74	4.46	4.76	17.87	10.2	9.5	9.6	9.0
	0.79	55.9	13.66	9.97	0.73	4.30	4.59	17.97	10.8	10.0	10.1	9.4
	0.39	16.3	12.27	9.35	0.76	5.28	5.58	17.55	7.9	7.5	7.5	7.1
45	0.59	32.9	12.72	9.55	0.75	4.93	5.22	17.65	8.8	8.2	8.3	7.8
	0.79	55.0	12.96	9.66	0.75	4.76	5.05	17.72	9.3	8.7	8.8	8.2

Interpolation is permissible; extrapolation is not.

All entering air conditions are 27°C DB and 19°C WB in cooling and 20°C DB in heating.

AHRI/ISO certified conditions are 27°C DB and 19°C WB in cooling and 20°C DB in heating.

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

All performance data 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 4°C EWT is based upon a 20% methanol antifreeze solution.

Operation below 16°C EWT requires optional insulated water/refrigerant circuit. See performance correction tables for operating conditions other than those listed above.

Gray shaded area in cooling refers to not recommended continuous operation below 10 $^{\circ}\text{C}$ water

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Performance Data – TC H/V 060 Heating

686 I/S Nominal Airflow

Performance capacities shown in kW

	TER / BRI	NE	Heating - EAT 20 °C										
EWT	FLOW	PD	нс	Pow	er kW	HE	LAT	E	CM	PS	sc		
°C	I/s	kPa	kW	ECM	PSC	kW	C	COP W/W	SCOP W/W	COP W/W	SCOP W/W		
	0.39	30.6			OPI	EDATION	NOT PEC	OMMENDI	ED				
-5	0.59	59.2			011		· · · · · · · · · · · · · · · · · · ·	CIMINEIND					
	0.79	96.2	10.83	3.42	3.70	7.41	33.1	3.2	2.8	3.2	2.8		
	0.39	25.7	11.59	3.48	3.75	8.11	34.0	3.3	2.9	3.3	2.9		
0	0.59	51.5	12.09	3.51	3.79	8.57	34.6	3.4	3.0	3.4	3.0		
	0.79	85.6	12.36	3.53	3.81	8.82	34.9	3.5	3.1	3.5	3.0		
	0.39	22.9	13.00	3.58	3.86	9.41	35.7	3.6	3.2	3.6	3.1		
5	0.59	43.2	13.57	3.63	3.90	9.94	36.4	3.7	3.3	3.7	3.3		
	0.79	69.2	13.89	3.66	3.93	10.23	36.8	3.8	3.3	3.8	3.3		
	0.39	21.7	14.40	3.70	3.97	10.70	37.4	3.9	3.4	3.9	3.4		
10	0.59	41.5	15.05	3.75	4.03	11.29	38.2	4.0	3.5	4.0	3.5		
	0.79	66.9	15.40	3.78	4.06	11.62	38.6	4.1	3.6	4.1	3.5		
	0.39	20.6	15.79	3.82	4.09	11.97	39.1	4.1	3.6	4.1	3.6		
15	0.59	39.7	16.51	3.88	4.15	12.62	39.9	4.3	3.7	4.2	3.7		
	0.79	64.5	16.89	3.91	4.19	12.98	40.4	4.3	3.8	4.3	3.8		
	0.39	19.5	17.16	3.94	4.21	13.22	40.7	4.4	3.8	4.3	3.8		
20	0.59	38.0	17.94	4.01	4.28	13.93	41.7	4.5	3.9	4.5	3.9		
	0.79	62.2	18.35	4.05	4.32	14.31	42.2	4.5	4.0	4.5	4.0		
	0.39	18.4	18.51	4.06	4.33	14.44	42.3	4.6	4.0	4.5	4.0		
25	0.59	36.3	19.34	4.14	4.41	15.20	43.4	4.7	4.1	4.7	4.1		
	0.79	59.8	19.78	4.18	4.45	15.59	43.9	4.7	4.1	4.7	4.1		
	0.39	17.3	19.82	4.19	4.45	15.64	43.9	4.7	4.1	4.7	4.1		
30	0.59	34.7	20.69	4.27	4.54	16.42	45.0	4.8	4.2	4.8	4.2		
	0.79	57.6	21.15	4.32	4.59	16.84	45.5	4.9	4.3	4.9	4.3		
	0.39	17.0											
35	0.59	34.1											
	0.79	56.8											
	0.39	16.7											
40	0.59	33.5			ОР	ERATION I	NOT REC	OMMEND	ED				
	0.79	55.9											
	0.39	16.3											
45	0.59	32.9											
	0.79	55.0											

Interpolation is permissible; extrapolation is not.

All entering air conditions are 27°C DB and 19°C WB in cooling and 20°C DB in heating.

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Gray shaded area in cooling refers to not recommended continuous operation below 10°C water

Airflow Correction Table

Entering Air Correction Tables

				Co	ooling Corre	ctions				
Ent Air WB °C	Total Clg Cap		Sen	s Clg Cap N	lultipliers - I	En tering DE	3 °C		Power	Heat of
WBC	Сар	20	21	24	27	29	32	35		Rej.
10	0.7800	0.9778	*	*	*	*	*	*	0.9972	0.8243
13	0.8327	0.8966	1.0556	*	*	*	*	*	0.9980	0.8667
16	0.8954	0.7505	0.9184	1.1056	*	*	*	*	0.9988	0.9169
18	0.9681		0.6778	0.8992	1.1213	1.3439	*	*	0.9997	0.9747
19	1.0000		0.5507	0.7782	1.0000	1.2161	1.4266	*	1.0000	1.0000
21	1.0508			0.6408	0.8856	1.1082	1.3087	1.4870	1.0005	1.0403
24	1.1435				0.6085	0.8566	1.0663	1.2376	1.0014	1.1135

* Sensible capacity equals total capacity. AHRI/ISO/ASHRAE 13256-1 uses entering air conditions of Cooling - 27.0°C DB/ 19.0°C WB, and Heating - 20.0°C DB/ 15.0°C WB entering air temperature.

	Heating (Corrections	
Ent Air DB °C	Htg Cap	Power	Heat of Ext
7	1.0507	0.7802	1.1314
10	1.0327	0.8227	1.0953
13	1.0195	0.8683	1.0646
16	1.0102	0.9168	1.0380
18	1.0033	0.9680	1.0139
20	1.0000	1.0000	1.0000
21	0.9979	1.0218	0.9908
24	0.9928	1.0781	0.9673
27	0.9866	1.1367	0.9419

Airflow Correction Table

Airflow		Heating				Cooling		
% of Rated	Htg Cap	Power	Heat of Ext	Total Cap	Sens Cap	S/T	Power	Heat of Rej
75	0.9764	1.1134	0.9368	0.9605	0.8837	0.9200	0.9606	0.9605
81	0.9829	1.0789	0.9551	0.9730	0.9130	0.9384	0.9691	0.9722
88	0.9889	1.0484	0.9717	0.9837	0.9393	0.9548	0.9784	0.9826
94	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	1.0050	0.9820	1.0116	1.0055	1.0434	1.0377	1.0122	1.0069
113	1.0096	0.9681	1.0216	1.0093	1.1016	1.0915	1.0253	1.0126
119	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

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Antifreeze Correction Table

EWT	Austifus and Time	A m415ma a = = 0/		Cooling		Heatir	ng	WPD
EWI	Antifreeze Type	Antifreeze %	Total Cap	Sensible Cap	Watts	Total Cap	Watts	WPD
	Water	0%	1	1	1	1	1	1
		5%	0.998	0.998	1.002	0.996	0.999	1.025
		10%	0.996	0.996	1.003	0.991	0.997	1.048
		15%	0.994	0.994	1.005	0.987	0.996	1.098
		20%	0.991	0.991	1.006	0.982	0.994	1.142
	Ethanol	25%	0.986	0.986	1.009	0.972	0.991	1.207
	Ethanoi	30%	0.981	0.981	1.012	0.962	0.988	1.265
		35%	0.977	0.977	1.015	0.953	0.985	1.312
		40%	0.972	0.972	1.018	0.943	0.982	1.37
		45%	0.966	0.966	1.023	0.931	0.978	1.431
		50%	0.959	0.959	1.027	0.918	0.974	1.494
		5%	0.998	0.998	1.002	0.996	0.999	1.021
		10%	0.996	0.996	1.003	0.991	0.997	1.04
		15%	0.994	0.994	1.004	0.987	0.996	1.079
		20%	0.991	0.991	1.005	0.982	0.995	1.114
	Ethylene Glycol	25%	0.988	0.988	1.008	0.976	0.993	1.146
	Ethylerie Glycol	30%	0.985	0.985	1.01	0.969	0.99	1.175
		35%	0.982	0.982	1.012	0.963	0.988	1.208
		40%	0.979	0.979	1.014	0.956	0.986	1.243
		45%	0.976	0.976	1.016	0.95	0.984	1.278
90		50%	0.972	0.972	1.018	0.943	0.982	1.314
		5%	0.997	0.997	1.002	0.993	0.998	1.039
		10%	0.993	0.993	1.004	0.986	0.996	1.075
		15%	0.99	0.99	1.007	0.979	0.994	1.116
		20%	0.986	0.986	1.009	0.972	0.991	1.154
	Methanol	25%	0.982	0.982	1.012	0.964	0.989	1.189
	Methanol	30%	0.978	0.978	1.014	0.955	0.986	1.221
		35%	0.974	0.974	1.017	0.947	0.984	1.267
		40%	0.97	0.97	1.02	0.939	0.981	1.31
		45%	0.966	0.966	1.023	0.93	0.978	1.353
		50%	0.961	0.961	1.026	0.92	0.975	1.398
		5%	0.995	0.995	1.003	0.99	0.997	1.065
		10%	0.99	0.99	1.006	0.98	0.994	1.119
		15%	0.986	0.986	1.009	0.971	0.991	1.152
		20%	0.981	0.981	1.012	0.962	0.988	1.182
	Propylene Glycol	25%	0.978	0.978	1.014	0.956	0.986	1.227
	1 Topylette Glycol	30%	0.975	0.975	1.016	0.95	0.984	1.267
		35%	0.972	0.972	1.018	0.944	0.982	1.312
		40%	0.969	0.969	1.02	0.938	0.98	1.356
		45%	0.965	0.965	1.023	0.929	0.977	1.402
		50%	0.96	0.96	1.026	0.919	0.974	1.45

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Antifreeze Correction Table

FIAIT	A 415	A4:5 0/		Cooling		Heatir	ng	WDD
EWT	Antifreeze Type	Antifreeze %	Total Cap	Sensible Cap	Watts	Total Cap	Watts	WPD
	Water	0%	1	1	1	1	1	1
		5%	0.991	0.991	1.006	0.981	0.994	1.14
		10%	0.981	0.981	1.012	0.961	0.988	1.242
		15%	0.973	0.973	1.018	0.944	0.983	1.295
		20%	0.964	0.964	1.024	0.927	0.977	1.343
	Ethanol	25%	0.959	0.959	1.028	0.917	0.974	1.363
	Ethanoi	30%	0.954	0.954	1.031	0.907	0.97	1.383
		35%	0.949	0.949	1.035	0.897	0.967	1.468
		40%	0.944	0.944	1.038	0.887	0.964	1.523
		45%	0.94	0.94	1.041	0.88	0.962	1.58
		50%	0.936	0.936	1.043	0.872	0.959	1.639
		5%	0.997	0.997	1.002	0.993	0.998	1.04
		10%	0.993	0.993	1.004	0.986	0.996	1.075
		15%	0.99	0.99	1.006	0.98	0.994	1.122
		20%	0.987	0.987	1.008	0.973	0.992	1.163
	Ethylene Glycol	25%	0.983	0.983	1.011	0.966	0.99	1.195
	Ethylene Glycol	30%	0.979	0.979	1.013	0.958	0.987	1.225
		35%	0.976	0.976	1.016	0.951	0.985	1.279
		40%	0.972	0.972	1.018	0.943	0.982	1.324
		45%	0.969	0.969	1.021	0.937	0.98	1.371
30		50%	0.966	0.966	1.023	0.93	0.978	1.419
		5%	0.995	0.995	1.004	0.989	0.997	1.069
		10%	0.989	0.989	1.007	0.978	0.993	1.127
		15%	0.984	0.984	1.011	0.968	0.99	1.164
		20%	0.979	0.979	1.014	0.957	0.986	1.197
	Methanol	25%	0.975	0.975	1.017	0.949	0.984	1.216
	Welland	30%	0.971	0.971	1.019	0.941	0.981	1.235
		35%	0.967	0.967	1.022	0.933	0.979	1.286
		40%	0.963	0.963	1.025	0.924	0.976	1.323
		45%	0.959	0.959	1.028	0.917	0.974	1.36
		50%	0.955	0.955	1.03	0.91	0.971	1.399
		5%	0.995	0.995	1.004	0.989	0.997	1.071
		10%	0.989	0.989	1.007	0.978	0.993	1.13
		15%	0.985	0.985	1.01	0.968	0.99	1.206
		20%	0.98	0.98	1.013	0.958	0.987	1.27
	Propylene Glycol	25%	0.974	0.974	1.017	0.947	0.983	1.359
	r Topylette Glycol	30%	0.968	0.968	1.021	0.935	0.979	1.433
		35%	0.963	0.963	1.025	0.924	0.976	1.522
		40%	0.957	0.957	1.029	0.913	0.972	1.614
		45%	0.949	0.949	1.034	0.898	0.967	1.712
		50%	0.941	0.941	1.039	0.882	0.962	1.816

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Blower Performance Data - PSC

Airflow in I/s with wet coil and clean air filter

Model Speed Airflow (I/s) Airflow (I/s	25 250
TCH/V 006	
TCH/V MED 121 85 145 134 124 113 99 120 114 106 92 120 114 137 130 123 130 126 116 112 130 125 144 137 130 123 130 126 116 112 130 125 144 163 144 163 163 167 169 255 248 230 195 163 167 248 241 234 223 212 184 163 160 167 167 248 241 234 223 212 184 163 160 167 167 167 168 169	
Hi	
TCH/V	
TCH/V MED 121 85 138 127 113 102 92	
LOW	
TCH/V 012 MED 144 108 151 144 137 130 123 LOW 192 140 269 255 248 230 195 163 TCH/V 015 MED 192 140 248 241 234 223 212 184 LOW 269 255 248 230 195 163 TCH/V 018 MED 230 167 248 241 234 223 212 184 LOW 269 255 248 230 195 TCH/V 018 MED 230 167 248 241 234 223 212 184 LOW 219 212 205 198 184 TCH/V 018 184 TCH/V MED 274 241 346 340 329 316 302 285 264	
TCH/V	
LOW	
TCH/V 015 MED 192 140 248 241 234 223 212 184 219 212 205 198 184 163 269 255 248 230 195 248 241 234 223 212 184 230 195 248 241 234 223 212 184 241 234 223 212 184 241 241 241 241 241 241 241 241 241 24	
015 MED 192 140 248 241 234 223 212 184 LOW LOW 219 212 205 198 184 163 269 255 248 230 195 248 241 234 223 212 184 LOW 219 212 205 198 184 TCH/V 024 MED 274 241 346 340 329 316 302 285 264	
LOW 219 212 205 198 184 163 HI 269 255 248 230 195 248 241 234 223 212 184 LOW 219 212 205 198 184 TCH/V MED 274 241 346 340 329 316 302 285 264	
TCH/V 018 MED 230 167 248 241 234 223 212 184 LOW 219 212 205 198 184 TCH/V 024 MED 274 241 346 340 329 316 302 285 264	
O18 MED 230 167 248 241 234 223 212 184 LOW 219 212 205 198 184 TCH/V 024 MED 274 241 346 340 329 316 302 285 264	
LOW 219 212 205 198 184	
TCH/V MED 274 241 346 340 329 316 302 285 264	
024 MED 2/4 241 346 340 329 316 302 285 264	
HI 398 377 353 326 288	
TCH/V 030 MED 343 285 429 412 394 374 357 333 305	
LOW 384 367 353 336 319 298	
HI 532 518 501 480 462 424 389	
TCH/V 036 MED 412 350 424 399 396 392 385 364	
LOW 354 350	
HI 563 542 521 497 470 443 408	
TCH/V MED 480 406 511 494 477 460 436 408 384	
LOW	
HI 679 655 617 576 511	
TCH/V MED 549 484 665 652 638 607 587 549 484	
LOW 607 593 580 566 539 497	
HI 793 789 778 750 729 711 694 665 633	
TCH/V MED 686 603 725 722 704 686 669 648 630 605	
LOW 655 651 640 630 612	

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. 220V for 220-240V 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 – PSC High Static Unit

Madal	Fan	Rated	Min			Airf	low (I/s)	at Exte	ernal St	atic Pre	essure (Pa.)		
Model	Speed	Airflow (I/s)	Airflow (I/s)	0	25	50	75	100	125	150	175	200	225	250
	HI					276	269	258	244	230	188			
TCH/V 015	MED	192	140	265	255	248	237	234	223	212	173			
0.0	LOW			237	226	219	212	205	202	188				
T01107	HI					276	269	258	244	230	188			
TCH/V 018	MED	230	167	265	255	248	237	234	223	212	173			
	LOW			237	226	219	212	205	202	188				
TO.110.	HI								353	326	288			
TCH/V 024	MED	274	241					357	333	305	257			
	LOW					353	336	319	298	271	244			
TO.110.	HI								398	357	316			
TCH/V 030	MED	343	285					388	353	319				
	LOW			360	353	340	329	312	288					
701107	HI							536	515	490	452	410		
TCH/V 036	MED	412	350	476	469	462	455	441	431	403	375			
	LOW			361	354	350								
TOUR	HI			0	0	532	521	504	497	473	425			
TCH/V 042	MED	480	406	477	470	463	453	446	429	405	370			
	LOW													
TOUR	HI							707	689	672	645	614	569	518
TCH/V 048	MED	549	484	703	700	683	665	648	628	611	587	556	511	
	LOW			635	631	621	611	593	573	549	518			
TCH/V	HI			849	846	839	828	814	793	778	754	729	701	669
060	MED	686	603	764	761	757	736	722	715	701	683	665	527	619
	LOW			683	679	676	669	665	655	648	637	619		

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. 220V for 220-240V 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 - ECM

Airflow in I/s with wet coil and clean air filter

Airflow in I/s		Rated	Min		External Static Pressure (Pa.)											
Model	Fan Speed	Airflow (I/s)	Airflow (I/s)		0	25	50	75	100	125	150	175	200	225	250	
				Airflow (I/s)		128	119	111	101	94	88	82				
	4			Speed (RPM)		1236	1312	1401	1499	1600	1695	1785				
				Power (W)		37	40	42	45	49	52	56				
				Airflow (I/s)		117	108	99	92	85	79	74				
	3			Speed (RPM)		1205	1287	1389	1490	1588	1684	1770				
TCH/V		79	53	Power (W)		33	35	38	41	44	47	51				
006		13	55	Airflow (I/s)		111	99	90	82	74	67	61	58			
	2			Speed (RPM)		1156	1207	1321	1428	1534	1623	1709	1802			
				Power (W)		29	30	33	36	39	41	44	48			
				Airflow (I/s)		91	80	70	60	53						
	1			Speed (RPM)		992	1112	1237	1351	1454						
				Power (W)		20	22	24	27	29						
TCH/V 009	4		87	Airflow (I/s)		185	178	171	165	157						
				Speed (RPM)		1581	1644	1706	1767	1820						
				Power (W)		79	83	86	90	91						
	3			Airflow (I/s)		170	163	156	149	142						
		121		Speed (RPM)		1487	1550	1614	1678	1768						
				Power (W)		65	68	71	74	79						
	2			Airflow (I/s)		153	145	139	131	122	115					
				Speed (RPM)		1369	1438	1516	1603	1695	1774					
				Power (W)		51	54	57	61	64	68					
				Airflow (I/s)		127	118	107	97	89						
				Speed (RPM)		1195	1276	1385	1476	1563						
				Power (W)		34	36	40	42	44						
	4			Airflow (I/s)		202	196	190	184	179	174					
				Speed (RPM)		1588	1627	1672	1718	1764	1811					
				Power (W)		109	112	115	118	121	124					
			104	Airflow (I/s)		182	175	169	162	156	150	144				
	3			Speed (RPM)		1469	1514	1561	1608	1659	1711	1778				
TCH/V		144		Power (W)		84	87	89	92	95	98	102				
012	2			Airflow (I/s)		165	158	151	145	138	131	125	118	110		
				Speed (RPM)		1364	1413	1467	1522	1582	1644	1707	1767	1819		
				Power (W)		67	69	72	74	77	80	84	87	89		
	1			Airflow (I/s)		142	134	126	118	110						
				Speed (RPM)		1205	1264	1328	1393	1469						
				Power (W)		46	49	51	53	56						

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Units factory shipped on speeds 2 and 1 for sizes 06-12; 3 and 2 for sizes 15-60. Other speeds require field selection. All airflow is rated and shown above at the lower voltage.

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

Blower Performance Data - ECM

Airflow in I/s with wet coil and clean air filter

	Fan	Rated	Min					Exter	nal Sta	tic Pres	sure (P	a.)			
Model	Speed	Airflow (I/s)	Airflow (I/s)		0	25	50	75	100	125	150	175	200	225	250
	_			Airflow (I/s)		297	281	275	254	241	228				
	5			Speed (RPM)		918	942	974	1066	1114	1159				
		-		Power (W)		105	107	110	120	125	130	4=0			
	,			Airflow (I/s)		274	260	248	229	216	199	176			
	4			Speed (RPM)		862	884	953	1025	1074	1134	1202			
				Power (W)		87	89	95	102	106	112	118			
TCH/V	,	102	140	Airflow (I/s)		250	240	220	205	188	164	146			
015	3	192	142	Speed (RPM) Power (W)		805 72	831 74	930	984 86	1043 91	1119 97	1173 101			
		-		Airflow (I/s)		237	227	205	190	165	146	101			
	2			Speed (RPM)		770	814	904	961	1030	1100				
	_			Power (W)		63	67	73	78	84	88				
				Airflow (I/s)		221	205	186	168	142	00				
	1			Speed (RPM)		725	803	875	940	1022					
				Power (W)		54	59	64	68	74					
				Airflow (I/s)		322	309	303	282	267					
	5			Speed (RPM)		1016	1034	1070	1160	1209					
			178	Power (W)		110	112	116	125	129					
				Airflow (I/s)		302	291	283	259	247	232				
	4	230		Speed (RPM)		969	989	1043	1130	1174	1211				
				Power (W)		95	96	101	109	113	116				
TCH/V	3			Airflow (I/s)		291	281	266	247	234	219				
018				Speed (RPM)		937	969	1031	1101	1148	1193				
				Power (W)		86	88	94	100	104	108				
				Airflow (I/s)		264	253	231	217	201	181				
	2			Speed (RPM)		860	899	995	1046	1098	1158				
				Power (W)		66 243	70 229	76 208	80 192	84	88				
	1			Airflow (I/s) Speed (RPM)		801	867	949	1003						
	'			Power (W)		54	58	64	67						
				Airflow (I/s)		413	394	377	363	348	328	301	278		
	5	274	234	Speed (RPM)		840	894	932	977	1024	1082	1156	1207		
				Power (W)		139	147	153	159	166	175	185	193		
	4			Airflow (I/s)		378	362	346	330	312	286	259	246		
				Speed (RPM)		808	850	893	938	992	1068	1129	1161		
				Power (W)		117	123	128	134	141	151	159	163		
TO!!!!	3			Airflow (I/s)		351	334	318	302	277	246				
TCH/V 024				Speed (RPM)		767	808	854	903	977	1052				
				Power (W)		99	104	109	115	123	132				
	2			Airflow (I/s)		335	316	297	275	239					
				Speed (RPM)		717	764	819	884	975					
				Power (W)		83	88	94	101	110					
	1			Airflow (I/s)		307	288	269	237						
	'			Speed (RPM) Power (W)		693 71	740 76	796 81	881 89						
				Airflow (I/s)		481	471	457	444	432	419	407			
	5			Speed (RPM)		934	979	1028	1073	1110	1144	1182			
				Power (W)		195	204	213	221	228	235	243			
		1		Airflow (I/s)		443	429	414	401	388	373	357			
	4			Speed (RPM)		868	914	964	1004	1048	1092	1145			
				Power (W)		155	163	171	177	184	191	199			
	3	1		Airflow (I/s)		405	390	375	356	345	328	303			
TCH/V 030		343	295	Speed (RPM)		806	859	909	953	1006	1061	1132			
303				Power (W)		124	131	138	144	151	159	168			
	2			Airflow (I/s)		357	340	325	310						
				Speed (RPM)		748	806	855	909						
				Power (W)		96	103	109	115						
	_			Airflow (I/s)		341	323	306							
	1			Speed (RPM)		710	768	822							
				Power (W)		80	86	92							

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Blower Performance Data - ECM

Airflow in I/s with wet coil and clean air filter

	Fan	Rated	Min	External Static Pressure (Pa.)											
Model	Speed	Airflow (I/s)	Airflow (I/s)		0	25	50	75	100	125	150	175	200	225	250
		(113)	(113)	Airflow (I/s)		574	561	546	533	518	503				
	5			Speed (RPM)		939	983	1033	1079	1122	1169				
				Power (W)		269	280	292	303	314	325				
		1		Airflow (I/s)		527	513	498	484	468	450	433			
	4			Speed (RPM)		877	926	979	1025	1071	1119	1167			
				Power (W)		213	224	234	244	254	264	274			
TCH/V			340	Airflow (I/s)		484	468	452	435	416	399	379	354		
036	3	412		Speed (RPM)		824	879	932	981	1035	1082	1137	1197		
		-		Power (W)		167	177	187	196	205	213	222	233		
				Airflow (I/s)		442	424	407	386	367	347				
	2			Speed (RPM) Power (W)		766 132	828 141	884 149	942 158	995 166	1051 175				
		-		Airflow (I/s)		399	379	357	136	100	175				
	1			Speed (RPM)		704	769	834							
				Power (W)		99	107	116							
				Airflow (I/s)		615	604	588	574	560					
	5			Speed (RPM)		1025	1063	1109	1161	1205					
			411	Power (W)		272	280	289	301	312					
		480		Airflow (I/s)		572	559	545	531	518	506				
	4			Speed (RPM)		977	1019	1072	1120	1161	1201				
				Power (W)		228	236	245	255	263	270				
TCH/V	2			Airflow (I/s)		534	521	506	491	478	465				
042				Speed (RPM)		938	985	1039	1088	1130	1172				
				Power (W)		197	204	213	221	228	235				
				Airflow (I/s)		481 854	465 911	450 965	436 1011	421 1057					
				Speed (RPM) Power (W)		152	159	166	172	178					
				Airflow (I/s)		421	139	100	172	170					
	1			Speed (RPM)		790									
				Power (W)		120									
		549	472	Airflow (I/s)		768	745	722	698	674	653	628	599	577	
	5			Speed (RPM)		887	924	963	1006	1046	1081	1124	1167	1201	
				Power (W)		322	333	345	358	370	380	394	407	418	
	4			Airflow (I/s)		711	684	659	634	610	583	552	530	508	484
				Speed (RPM)		832	877	921	965	1006	1051	1098	1130	1166	1200
				Power (W)		266	278	289	300	311	323	336	344	354	364
TCH/V	3			Airflow (I/s)		656	627	601	575	549	519	494			
048				Speed (RPM)		788	835	882	926	972	1019	1057			
				Power (W)		223 594	233 566	530	254	264 476	275	283			
	2			Airflow (I/s) Speed (RPM)		738	787	539 835	510 883	934					
	-			Power (W)		182	192	201	210	220					
				Airflow (I/s)		538	508	478	210						
	1			Speed (RPM)		689	744	793							
				Power (W)		152	161	169							
				Airflow (I/s)		886	860	828	811	786	759	745	715	693	669
	5			Speed (RPM)		815	850	898	921	971	1010	1028	1083	1119	1215
				Power (W)		412	427	448	458	480	496	505	526	541	559
				Airflow (I/s)		831	812	781	762	735	711	692	664	639	
	4			Speed (RPM)		790	816	873	893	945	985	1003	1060	1102	
		-		Power (W)		353	363	390	393	418	436	440	465	481	
TCH/V		600	600	Airflow (I/s)		800	774	740	721	693	668	648	617		
060	3	686	600	Speed (RPM)		744	780	841	863	913	955	979	1038		
				Power (W) Airflow (I/s)		302 753	315 724	335 693	344 669	364 647	375 617	387	408		
	2			Speed (RPM)		715	757	815	847	883	933				
				Power (W)		263	276	293	304	315	330				
		-		Airflow (I/s)		711	680	652	622	010	000				
	1			Speed (RPM)		686	732	789	828						
				Power (W)		230	242	257	268						
		—	1	/				,-							

Black areas denote ESP where operation is not recommended.

Units factory shipped on speeds 2 and 1 for sizes 06-12; 3 and 2 for sizes 15-60. Other speeds require field selection. All airflow is rated and shown above at the lower voltage.

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Physical Data

TC Series	006	009	012	015	018	024	030	036	042	048	060
Compressor (1 Each)		Rotary			y				Scroll		
Factory Charge HFC-410A - kg	0.54	0.52	0.65	0.99	1.22	1.13	1.36	1.42	1.98	2.10	2.32
ECM Fan Motor & Blower											
Fan Motor (Watts)		186		24	49		37	3		74	16
Blower Wheel Size (Dia x W) mm	127)	(127	152 x 127		229	x 178		229	x 203	254 x 254	305 x 254
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
Fan Motor (Watts)	19		75	5	53	149	249			249	
Blower Wheel Size (Dia x W) mm	127)	(127	152 x 127	2	229 x 178	3	229 x 178	229	x 203	254 x 254	305 x 254
Water Connection Size											
FPT			1/2"				3/4	1"		1	"
Coax Volume (liters)	0.29	0.37	0.50	0.68	0.79	0.68	1.1	3	1.83	1.54	2.32
Vertical											
Air Coil Dimensions (H x W) mm	2	54 x 381	3Row		508 x 4	38 3Ro	W	610 x 5	3 3Row	610 x 7°	18 3Row
Filter Standard - 25.4mm Throwaway mm		254 x 4	57	508 x 508			610 x 610		457 x 610 356 x 610		
Weight - Operating kg	47	48	52	70	72	86	90	92	99	120	126
Weight - Packaged kg	51	52	56	72	74	88	92	95	102	123	130
Horizontal											
Air Coil Dimensions (H x W) mm	2	54 x 381	3Row		406 x 5	59 3Ro	W		508	k 635 3Row	
Filter Standard - 25.4mm Throwaway mm		254 x 4	57	406	x 635	457	7 x 635	356 x	508 (2)		k 508 k 610
Weight - Operating kg	47	48	52	70	72	79	83	92	99	120	126
Weight - Packaged kg	51	52	56	72	74	81	85	95	102	123	130

Notes

All units have dual isolation compressor mounts for quiet operation, thermal expansion valves for refrigerant metering, and 22.2mm & 28.6mm electrical knockouts to accommodate field wiring.

FPT - Female Pipe Thread

Condensate Drain Connection is rubber coupling that couples to 3/4" schedule 40/80 PVC.

Unit Maximum Water Working Pressure						
Options	Max Pressure kPa					
Base Unit	3447					

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TC – Horizontal – Dimensional Data

Horizoi	ntal	Overall Cabinet						
Mode		A Width	B Length	C Height				
006 - 012	cm	48.5	86.6	28.2				
015 - 018	cm	51.1	109.5	43.2				
024 - 030	cm	51.1	109.5	46.5				
036 - 042	cm	51.1	119.6	53.3				
048 - 060	cm	61.2	137.4	53.3				

		Electrical Knockouts				
Horizon Mode		J 22.2mm	K 28.6mm			
illoud		Low Voltage	Power Supply			
006 - 012	cm	13.0	5.4			
015 - 018	cm	23.2	15.6			
024 - 030	cm	28.2	20.6			
036 - 060	cm	33.3	25.7			

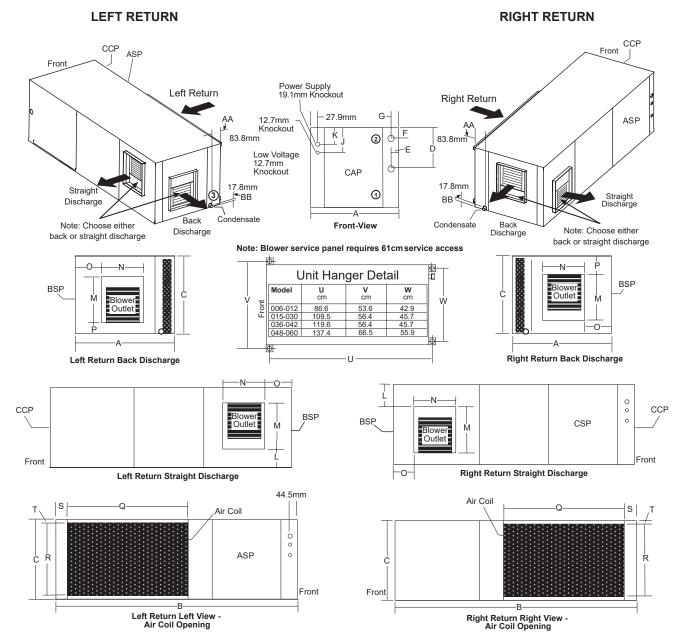
				Wat	er Connect	ions			
Horizo	ntal	(D		2)	(3)	Laan	
Mode		Loop	Loop	Loop	Loop	Conde	Loop In/Out		
		In D	In E	Out F	Out G	AA	BB	FPT	
006 - 012	cm	14.2	2.7	4.1	2.7	8.4	1.8	1/2"	
015	cm	38.4	3.4	8.1	3.5	8.4	1.8	1/2"	
018	cm	38.4	3.4	10.4	3.5	8.4	1.8	1/2"	
024	cm	41.7	3.4	11.3	3.5	8.4	1.8	3/4"	
030	cm	41.7	3.4	7.8	3.5	8.4	1.8	3/4"	
036	cm	48.5	3.4	13.4	3.5	8.4	1.8	3/4"	
042	cm	48.5	3.4	11.3	3.5	8.4	1.8	3/4"	
048	cm	48.5	3.4	11.1	3.5	8.4	1.8	1"	
060	cm	48.5	3.4	9.7	3.5	8.4	1.8	1"	

Horizor	Discharge Connection Duct Flange Installed (+/- 2.5mm)							Return Connection Using Return Air Opening				
Mode		L	M Supply Height	N Supply Width	0	Р	Q Return Width	R Return Height	S	Т		
006 - 012	cm	1.9	22.7	17.0	15.2	3.3	41.0	25.0	2.7	1.5		
015 - 018	cm	6.6	33.8	25.1	10.5	3.3	58.4	38.1	2.8	2.5		
024 - 030	cm	6.6	33.8	25.1	10.5	3.3	58.4	41.4	2.8	2.5		
036 - 042	cm	6.3	40.9	27.9	7.7	6.4	65.8	48.3	2.8	2.5		
048	cm	9.5	41.0	34.8	10.3	3.2	91.2	48.3	2.8	2.5		
060	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



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.
- 2. Units are shipped with an air filter supported by a set of filter rails. These rails are not suitable for supporting duct work. If a return air duct is to be connected to the unit, these rails should be removed and replaced with the ClimateMaster AFF Series accessory filter frame or some other air filter support system.
- 3. Discharge flange and hanger brackets are factory installed.
- 4. Condensate fitting on Polymer drain pan is rubber coupling that couples to 3/4" schedule 40/80 PVC, S.S. drain pan is 3/4" MPT.
- 5. Blower service panel requires 61cm 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)

FPT = Female Pipe Thread

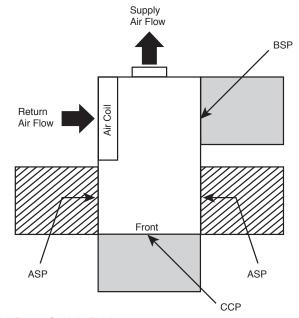
Note:

*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.

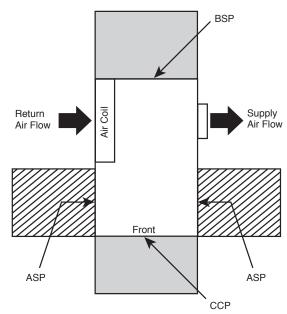
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TC – Horizontal Service Access

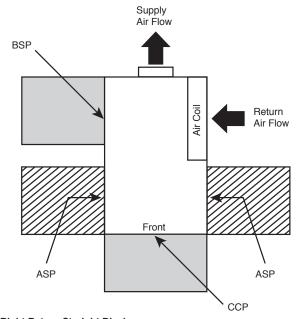
Left Return Back Discharge



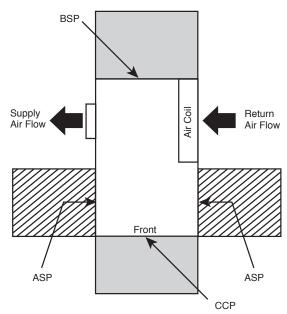
Left Return Straight Discharge



Right Return Back Discharge



Right Return Straight Discharge



= mandatory 61 cm service access

= (optional) additional 61 cm service access

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.
- 2. CCP and BSP requires 61 cm 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.

Legend:

CCP = Control/Compressor Access Panel

BSP = Blower Service Panel

ASP = Additional Service Panel (not required)

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TC – Vertical Upflow – Dimensional Data

Verti	cal	Overall Cabinet						
Upflo Mod		A Width	B Depth	C Height				
006 - 012	cm	48.5	48.5	55.9				
024 - 030	cm	54.6	54.6	101.6				
015 - 042	cm	54.6	66.0	114.3				
048 - 060	cm	61.0	82.6	116.8				

		Electrical Knockouts			
Vertical Model		K 22.2mm	L 28.6mm		
	Model		Power Supply		
006 - 012	cm	14.9	22.5		
015 - 060	cm	18.1	25.7		

		Water Connections - Standard Units							
Vertica	Vertical		D)	(2)	(3	Loop	
Upflow		Loop Loop		Loop	oop Loop		ensate	In/	
Model		In D	In E			Н	ı	Out FPT	
006 - 012	cm	3.8	3.8	24.1	3.8	29.7	3.6	1/2"	
015	cm	4.8	3.6	35.1	3.6	50.0	3.6	1/2"	
018	cm	4.8	3.6	35.1	3.6	50.0	3.6	1/2"	
024	cm	4.8	3.6	35.1	3.6	50.0	3.6	3/4"	
030	cm	4.8	3.6	38.6	3.6	50.0	3.6	3/4"	
036	cm	4.8	3.6	38.6	3.6	52.3	3.6	3/4"	
042	cm	4.8	3.6	42.0	3.6	52.3	3.6	3/4"	
048	cm	4.8	3.6	42.9	3.6	54.9	3.6	1"	
060 cm		4.8	3.6	44.2	3.6	54.9	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 015-030 with front return)

 Units with front return require left side access for the fan.
- 3. Discharge flange is field installed.
- 4. Condensate fitting on Polymer drain pan is rubber coupling that couples to 3/4" schedule 40/80 PVC, S.S. drain pan is 3/4" MPT.
- 5. Units are shipped with an air filter supported by a set of filter rails. These rails are not suitable for supporting duct work. If a return air duct is to be connected to the unit, these rails should be removed and replaced with the ClimateMaster AFF Series accessory filter frame or some other air filter support system.

Legend:

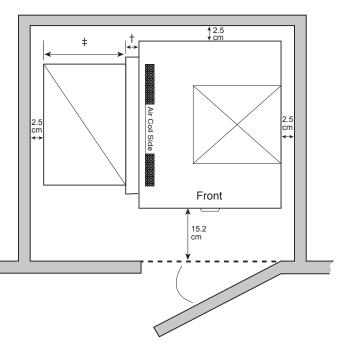
CCP = Control/Compressor Access Panel

BSP = Blower Service Panel ASP = Alternative Service Panel

FPT = Female Pipe Thread

Reco	mmended Minimum Installation Clearances for Vertical Units*
2.5	Back of unit
cm	Side opposite return air
15.2 cm	Front if hard piped
	Return Air Side
	Ducted return
2.5	- ‡ Add for duct width
cm	- † Add 5.0 cm for 2.5 cm filter frame/rail or 7.6 cm for 5.0 cm filter frame/rail
	Free (open) return - calculate required dimension for a maximum velocity of 3.0 m/s

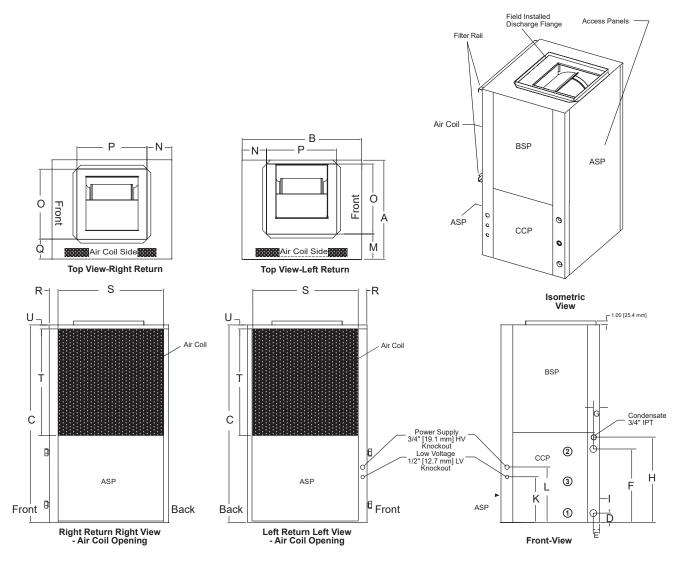
^{*}Field installed accessories (hoses, air cleaners, etc.) may require additional space. Top supply air is shown, the same clearances apply to bottom supply air units.



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TC – Vertical Upflow – Dimensional Data

		С		arge Conn e Installed		Return Connection Using Return Air Opening				
Vertica Model	-	М	N	O Supply Width	P Supply Depth	Q	R	S Return Depth	T Return Height	U
006 - 012	cm	22.7	12.9	22.9	22.9	14.0	5.3	41.1	25.1	1.9
015 - 030	cm	16.1	9.5	35.6	35.6	13.6	5.8	46.5	53.1	1.9
036 - 042	cm	16.1	9.5	35.6	35.6	13.1	5.8	57.9	60.7	1.9
048 - 060	cm	17.4	18.4	40.6	45.7	13.1	5.8	74.4	57.0	1.9



Units shipped with filter rails. These rails should be removed for return duct connection. See Aff---- for accessory air filter frame with duct collar.

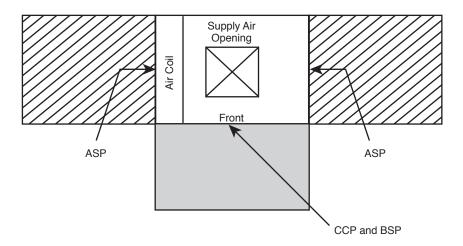
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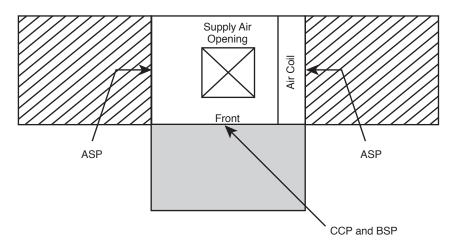
TC – Vertical Service Access

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.
- 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.
- 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. Top supply air is shown, the same clearances apply to bottom supply air units.
- 5. Front return units (not shown) require front access for controls/compressor and left side access for blower.

= mandatory 61 cm service access
= (optional) additional 61 cm service access

Legend:

CCP = Control/Compressor Access Panel

BSP = Blower Service Panel

ASP = Additional Service Panel (not required)

Corner Weights for TCH Series Units

Model		Total	Left-Front*	Right-Front*	Left-Back*	Right-Back*
TCH006	kg	47	17	11	11	9
TCH009	kg	48	17	11	10	9
TCH012	kg	52	19	12	12	10
TCH015	kg	69	24	16	15	14
TCH018	kg	72	25	17	16	14
TCH024	kg	79	28	18	18	15
TCH030	kg	83	30	19	18	15
TCH036	kg	92	34	21	20	17
TCH042	kg	99	37	23	22	18
TCH048	kg	119	44	27	26	21
TCH060	kg	126	47	29	28	23

^{*}Front is control box end.

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Electrical Data

TCH/V Standard Unit

тс	Voltage	Voltage Rated		Co	Compressor			Total	Min Circuit	Max
Model	Code	Voltage	Min/Max	QTY	RLA	LRA	Motor FLA	Unit FLA	Amp	Fuse
006	V	220/240/50/1	209/252	1	2.8	15.0	0.4	3.2	3.9	15
009	V	220/240/50/1	209/252	1	3.1	18.8	0.7	3.8	4.6	15
012	V	220/240/50/1	209/252	1	4.0	21.0	0.7	4.7	5.7	15
015	V	220/240/50/1	209/252	1	4.7	23.0	0.9	5.6	6.7	15
018	V	220/240/50/1	209/252	1	5.9	24.0	0.9	6.8	8.2	15
024	V	220/240/50/1	209/252	1	9.0	52.0	1.3	10.3	12.6	20
020	V	220/240/50/1	209/252	1	11.2	60.0	2.7	13.9	16.7	25
030	U	380/420/50/3	361/436	1	3.9	28.0	1.7	5.6	6.6	15
036	V	220/240/50/1	209/252	1	13.5	67.0	2.0	15.5	18.9	30
036	U	380/420/50/3	361/436	1	5.4	38.0	1.2	6.6	8.0	15
042	U	380/420/50/3	361/436	1	6.0	46.0	1.7	7.7	9.2	15
048	U	380/420/50/3	361/436	1	6.1	43.0	1.8	7.9	9.4	15
060	U	380/420/50/3	361/436	1	7.8	51.5	2.5	10.3	12.3	20

All fuses Class RK-5

TCH/V High Static Unit

тс	Voltage	Rated	Voltage	Compressor			Fan	Total	Min	Max
Model		Voltage	Min/Max	QTY	RLA	LRA	Motor FLA	Unit FLA	Circuit Fuse	Fuse
015	V	220/240/50/1	209/252	1	4.7	23.0	0.9	5.6	6.7	15
018	V	220/240/50/1	209/252	1	5.9	24.0	1.3	7.2	8.7	15
024	V	220/240/50/1	209/252	1	9	52.0	2.7	11.7	14.0	20
020	V	220/240/50/1	209/252	1	11.2	60.0	2.7	13.9	16.7	25
030	U	380/420/50/3	361/436	1	3.9	28.0	1.7	5.6	6.6	15
020	V	220/240/50/1	209/252	1	13.5	67.0	2.7	16.2	19.6	30
036	U	380/420/50/3	361/436	1	5.4	38.0	1.7	7.1	8.5	15
042	U	380/420/50/3	361/436	1	6	46.0	1.7	7.7	9.2	15
048	U	380/420/50/3	361/436	1	6.1	43.0	2.5	8.6	10.1	15
060	U	380/420/50/3	361/436	1	7.8	51.5	2.6	10.4	12.4	20

All fuses Class RK-5

TCH/V ECM Motor Unit

тс	Voltage	e Botad Valtage	"Voltage	Compressor			Fan Motor	Total Unit	Min Circuit	Max
Model	Code	Rated Voltage	Min/Max"	Qty	RLA	LRA	FLA	FLA	Amp	Fuse
006	V	220-240/50/1	206.8 / 254.4	1	2.14	15.0	2.30	4.4	5.0	15
009	V	220-240/50/1	206.8 / 254.4	1	3.10	18.8	2.30	5.4	6.2	15
012	V	220-240/50/1	206.8 / 254.4	1	4.05	21.0	2.30	6.4	7.4	15
015	V	220-240/50/1	206.8 / 254.4	1	4.70	23.0	2.60	7.3	8.5	15
018	V	220-240/50/1	206.8 / 254.4	1	5.90	24.0	2.60	8.5	10.0	15
024	V	220-240/50/1	206.8 / 254.4	1	9.00	52.0	4.60	13.6	15.9	20
030	V	220-240/50/1	206.8 / 254.4	1	11.20	60.0	4.60	15.8	18.6	25
030	U	380-420/50/3	357.2 / 445.2	1	3.90	28.0	1.10	5.0	6.0	15
036	V	220-240/50/1	206.8 / 254.4	1	13.50	67.0	4.60	18.1	21.5	30
036	U	380-420/50/3	357.2 / 445.2	1	5.40	38.0	1.10	6.5	7.9	15
042	U	380-420/50/3	357.2 / 445.2	1	6.00	46.0	1.10	7.1	8.6	15
048	U	380-420/50/3	357.2 / 445.2	1	6.10	43.0	2.10	8.2	9.7	15
060	U	380-420/50/3	357.2 / 445.2	1	7.80	51.5	2.10	9.9	11.9	15

All fuses Class RK-5

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TC Series Wiring Diagram Matrix

All current diagrams can be located online at climatemaster.com. Click 'Commercial Professional'.

- 1. Click 'Products' in the main navigation
- 2. Select 'Small Packaged Units'
- 3. Select the TR product series
- 4. Click the Wire Diagrams tab in the middle of the page
- 5. Select your voltage and controls

Unit Controller	Fan Motor	220-240/50/1	380-420/50/3	
Unit Controller	ran wotor	006-036	030-060	
CXM2	PSC	96B0514N41	96B0514N51	
CAIVIZ	CT ECM	96B0514N42	96B0514N52	
DXM2.5	PSC	96B0480N12	96B0480N22	
DAWI2.5	CT ECM	96B0228N93	96B0230N64	
Auxiliary WD fo	r MPC Controls	96B01	47N14	

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Tranquility® (TC) Series 50 Hz Engineering Specifications – Page 1

General:

Furnish and install ClimateMaster "Tranquility® 16" (Tranquility® Compact) 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 -5° to 45°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 in accordance with International Standards Organization (ISO) 13256-1 and EN14511-2. The units shall have CE 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 air flow 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 three 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 12.7mm thick, 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 25.4mm discharge air duct collars, 25.4mm filter rails with 25.4mm filters factory installed, and factory installed unit-mounting brackets. Vertical units to have field installed discharge air duct collar, shipped loose and 25.4mm filter rails with 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 sub-contractor 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 25.4mm wide filter rails for filter removal from either side. Units shall have a 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.

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Tranquility® (TC) Series 50 Hz Engineering Specifications – Page 2

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.

Units shall have an Ingress Protection Rating of IP25

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

Option: UltraQuiet package shall consist of discharge muffler (except sizes 006—012); and sound attenuating material applied to the fan housing.

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

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.

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, 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 (009-042) 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 dry coil and a clean filter in place.

Option: High static motors

Option: ECM motors

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 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.

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Refrigerant to air heat exchangers shall utilize enhanced corrugated lanced aluminum fins and rifled copper tube construction rated to withstand 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 4309 kPa working refrigerant 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 184 kg-cm direct (ASTM D2794-93).

Refrigerant metering shall be accomplished by thermostatic expansion valve only. Expansion valves shall be dual port balanced types with external equalizer for optimum refrigerant metering. Units shall be designed and tested for operating ranges of entering water temperatures from 20° to 120°F (-6.7° to 43.3°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.

Drain Pan:

The drain pan shall be constructed of a polymer material that inhibits corrosion. If galvanized steel drain pan is used, it must meet the stringent 1,000 hour salt spray test per ASTM B117. Drain pan shall be fully insulated. Drain outlet shall be located at pan as to allow unobstructed drainage of condensate. Drain outlet shall be connected from pan directly to a rubber coupling. 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

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. The control box on sizes 015 through 060 shall have a door to protect the internal components. The entire control box shall be capable of rotating out of the unit to allow access to the components behind the control box. 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.

Enhanced Solid State Control System (CXM2):

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.

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- k. The low-pressure switch shall not be monitored for the first 120 seconds after a compressor start command to prevent nuisance safety trips.
- I. 24V output to cycle a motorized water valve or other device with compressor contactor.
- m. Unit Performance Sentinel (UPS). The UPS warns when the heat pump is running inefficiently.
- n. Water coil low temperature sensing (selectable for water or anti-freeze).
- o. Air coil low temperature sensing.
- p. 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).
- q. Emergency shutdown contacts.
- r. Entering and leaving water temperature sensing.
- Leaving air temperature sensing.
- t. Compressor discharge 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.

When CXM2 is connected to AWC99U01 thermostat or handheld service tool, the installer/service technician can; check DIP switch S2 settings; run operation modes manually; check all physical inputs from thermostat and refrigerant pressure switches status, (Y1, Y2, W, O, G, H, ESD, NSB, OR, HP switch, and LOC switch); current or at time of fault the following temperatures - water coil (LT1), air coil (LT2), compressor discharge, leaving air, leaving water, entering water and control voltage; record last five faults, list possible reasons, and clear faults. When the AWC99U01 communicating thermostat is used this same functionality can be viewed and adjusted remotely in the web portal or mobile app. Systems not providing remote access, diagnosis, and adjustment functionality will not be accepted.

Option: Enhanced Solid State Control System (DXM2.5)

This control system is a communicating controller.

Control shall have the above-mentioned features of the CXM2 control system along with the following expanded features:

- a. Removable thermostat connector.
- b. Night setback control.
- c. Random start on return from night setback.
- d. Override temperature control with 2-hour timer for room occupant to override setback temperature at the thermostat.
- e. Dry contact night setback output for digital night setback thermostats.
- f. Ability to work with heat pump or heat/cool (Y, W) type thermostats.
- g. Ability to work with heat pump thermostats using O or B reversing valve control.
- h. Boilerless system heat control at low loop water temperature.
- i. Ability to allow up to 3 units to be controlled by one thermostat.
- j. Relay to operate an external damper.
- k. Relay to start system pump.
- I. 75 VA control transformer. Control transformer shall have load side short circuit and overload protection via a built-in circuit breaker.

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 protection for both drain pans will not be accepted.

When DXM2.5 is connected to AWC99U01 communicating thermostat or handheld service tool, the installer/service technician can; check and set CFM; check DIP switch S1, S2, and S3 settings; run operation modes manually; check all physical inputs from thermostat and refrigerant pressure switches status, (Y1, Y2, W, O, G, H, ESD, NSB, OR, HP switch, and LOC switch);

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current or at time of fault the following temperatures - water coil (LT1), air coil (LT2), compressor discharge, leaving air, leaving water, entering water and control voltage; record last five faults, list possible reasons, and clear faults. When the AWC99U01 communicating thermostat is used this same functionality can be viewed and adjusted remotely with the only portal or mobile app. Systems not providing remote access, diagnosis, and adjustment functionality will not be accepted.

Remote Service Sentinel (CXM2/DXM2.5):

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: MPC (Multiple Protocol Control) Interface System

Units shall have all the features listed above (either CXM2 or DXM2.5) 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:

Climate Master shall warranty equipment for a period of 12 months from start up or 18 months from shipment (whichever occurs first).

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

Option: Two-Year Extended Warranty provides coverage for a period of 30 months from date of shipment or 24 months from the date of start-up (whichever occurs first).

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.
- 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. Thermostat (Communicating) (AWC99U01)

An electronic communicating web-enabled touchscreen thermostat shall be provided. The thermostat shall offer three stages of heating and two stages of cooling with precise temperature control and have a four-wire connection to the unit. The thermostat shall be capable of manual or automatic change-over operation and shall operate in standard or programmable mode. An integrated humidity control feature shall be included to control a humidifier and/or a dehumidifier. The thermostat shall include a utility demand reduction feature to be initiated by an independent time program or an external input.

The thermostat shall provide access to via the web portal or mobile application to include temperature adjustment, schedule adjustment including occupied/unoccupied, entering water temperature, leaving water temperature, water coil temperature, air coil temperature, leaving air temperature, and compressor discharge temperature. A graphical system layout to be provided with real-time operating mode information of the temperature sensors for easy diagnostics.

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The thermostat shall display system faults with probable cause and troubleshooting guidance. The system shall provide in clear language last five faults, time of faults, operating temps at time of fault, and possible reasons for the fault. The thermostat shall provide access for immediate manual control of all outputs via the web portal/mobile application for rapid troubleshooting.

b. Single-Stage Digital Auto or Manual Changeover (ATA11U01)

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. Multi-stage Manual Changeover Programmable 5/2 Day (ATP21W02)

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.

d. Multi-stage Automatic or Manual Changeover Programmable 7 Day (ATP32U03C)

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 CXM2 or DXM2.5 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 accomplished via five buttons (up/down/right/left/select) with menu-driven selections for ease of use and programming.

e. Multistage Automatic or Manual Changeover Programmable 7 Day with Humidity Control (ATP32U04C). 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® II 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 CXM2 or DXM2.5 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 accomplished via five buttons (up/down/right/left/select) with menu-driven selections for ease of use and programming.

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f. CM100 - Multi-stage Automatic or Manual Changeover digital thermostat (ATA32V01)
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 green backlit LED display with temperature, setpoints, mode, and status indication via a green (cooling) or red(heating) LED. The temperature indication shall be selectable for °F or °C. Time display shall be selectable for 12 or 24 hour clock. 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. Thermostat navigation shall be accomplished via four buttons (Mode/fan/down/up) with

g. CM300 – Multi-stage, Automatic or Manual Changeover, 7-day Programmable with Wi-Fi and Humidity Control (AVB32V02C)

menu-driven selections for ease of use and programming.

Residential version shall be 7 day programmable with up to 4 setpoints per day. Commercial version shall be 7 day programmable with 4 occupied/unoccupied periods per day with up to 4-hour override. Multi-stage (3H/2C), automatic or manual changeover with HEAT-OFF-COOL-AUTO-EM HEAT system settings and fan ON-AUTO settings, Wi-Fi, pre-occupancy purge fan option, night time control of display backlight, bi-color LED indicates a heating or cooling demand, keypad lock, title 24 compliant, openADR2.0b certified with Skyport web portal. Compatible with condensate overflow warning systems – lockout compressor with message on.

h. CM500 – Color Touchscreen Display, Multi-stage, Automatic or Manual Changeover, 7-day Programmable with Wi-Fi and Humidity Control (AVB32V03C)

Thermostat shall have color resistive touchscreen display with space temperature, relative humidity, setpoints, mode, status indication and local weather (if connected to Wi-Fi). Residential version shall be 7 day programmable with up to 4 setpoints per day. Commercial version shall be 7 day programmable with 4 occupied/unoccupied periods per day with up to 4-hour override. Multi-stage (3H/2C), automatic or manual changeover with HEAT-OFF-COOL-AUTO-EM HEAT system settings and fan ON-AUTO settings, Wi-Fi, pre-occupancy purge fan option, customizable screen saver and background displays, indicator on display indicates a heating or cooling demand, set-point lock, title 24 compliant, openADR2.0b certified with Skyport web portal. Compatible with condensate overflow warning systems - lockout compressor with message on the display. Capable of being monitored by 3rd party software. Compatible with AST014 Wi-Fi remote sensor. Configurator mobile app or web portal for easy setup. Separate dehumidification and humidification setpoints shall be configurable for discreet outputs to a dehumidification option and/or an external humidifier. The temperature indication shall be selectable for °F or °C. Time display shall be selectable for 12- or 24-hour clock. The thermostat shall provide permanent memory of setpoints without batteries. Thermostat shall provide heating setpoint range limit, cooling setpoint range limit, temperature display offset, 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 access to a web portal and mobile app for installer setup for configuring options. Thermostat shall have 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.
- b. Sensor with setpoint adjustment and override.
- c. Sensor with setpoint adjustment and override, LCD display, status/fault indication.

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Notes:

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Revision History

Date:	Item:	Action:
01/24/23	All	Transitioned from CXM to CXM2 and DXM2 to DXM2.5 controls
07/08/21	All	Introduced Polymer Drain Pans. Discontinued Painted Galvanized Pans.Increased the height of vertical sizes 015 and 018
09/13/19	Multiple Pages	Changed diagrams, added tables, and updated text for DXM2 and ECM
04/02/18	Unit photos	Changed unit photos from black to steel color
03/01/18	All	Add SEER and SCOP plus miscellaneous edits
04/14/16	Engineering Specifications	Updated run test text
08/14/15	Engineering Specifications	Removed AHRI Text
08/03/15	Electrical Data - High Static Blower table	Updated
07/24/15	Wiring Diagram Matrix	Updated
04/08/15	Entire Document	Misc. Edits, Clearances
09/20/11	Size 024	Added "U" Voltage
08/09/11	Unit Maximum Working Water Pressure	Updated to Reflect New Safeties
09/28/10	Physical Data Table	Added Coax Volume Information
08/23/10	Size 006 and 012	Added
08/09/10	Entire Document	Removed I-P Units Miscellaneous Edits to Engineering Specifications
11/04/09	TC 009 Information	Added
05/05/09	Dimensional Data Tables	Condensate Column Added to Water Connections Table, Rows Consolidated in Cabinet, Knockout and Discharge Tables
10/16/08	Created	

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