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Tranquility (TCW) Water-To-Water Series

WATER-TO-WATER SYSTEMS SIZES 036, 060, AND 120 [8.7, 13.5 and 26.9 kW]

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Tranquility Water-To-Water (TCW) Series Features

The Tranquility Water-To-Water (TCW) Series

The TCW water to water series offers a wide range of units for most anyinstallation with an extended range refrigerant circuit, capable of ground water (geothermal) applications. As ClimateMaster's most adaptable EarthPure[®] HFC-410A refrigerant units, the TCW Series can be used for radiant floor heating, snow/ice melt, chilled water for fan coils, hot water generation (with hot water generator option), hot/chilled water for make-up air, and many other types of HVAC applications.

Available in sizes 036 [8.7 kW], 060 [13.5 kW] and 120 [26.9 kW] the TCW Series offers a wide range of units for open loop (ground water) applications. Standard features are many. Coaxial heat exchangers, refrigerant suction lines and all water lines are fully insulated to eliminate condensation problems in low temperature applications. Microprocessor controls, galvanized steel cabinet, powder coat paint, insulated cupro-nickel source coaxial heat exchanger, insulated copper load coaxial heat exchanger, stainless steel front access panels and TXV refrigerant metering device are just some of the features of the flexible TCW Series.

ClimateMaster's exclusive dual level compressor isolation mounting system makes the TCW Series the quietest water-to-water unit on the market. Compressors are mounted on vibration isolation grommets to a heavy gauge mounting plate, which is then isolated from the cabinet base with rubber grommets for maximized vibration/sound attenuation.

The TCW Series water-to-water heat pumps are designed to meet the challenges of today's HVAC demands with a high efficiency, high value solution.

Application Flexibility

- Three Capacities 036 [8.7 kW], 060 [13.5 kW], & 120 [26.9 kW].
- Copeland scroll compressors.
- Dual refrigeration circuits on size 120.
- Galvanized steel construction with epoxy powder coat paint.
- Insulated compressor compartment.
- TXV metering device.
- Microprocessor controls standard.
- 1" swivel-type water connections for models 036 & 060.
- Flush securely-mounted corner post water connections (no backup wrench required) for model 120.
- Compressor "run" and "fault" lights on the front of the cabinet.
- Seven Safeties Standard.
- · Intended for open loop (geothermal) applications only.

Service & Installation Advantages

- Three Removable access panels.
- Low profile control box grants easy access to all internal components.
- Factory installed liquid line filter/drier.
- EarthPure[®] HFC-410A zero ozone depletion refrigerant.
- Brass swivel-type water connections for quick connection and elimination of wrenches or sealants during installation. (036,060 models)
- Bi-directional thermal expansion valve.
- DXM2.5 control features status lights with memory for easy diagnostics.

- Circuit breaker protected 75VA control transformer.
- High and low pressure service ports on refrigerant circuit.
- Accurate refrigerant sensing low-temperature protection.
- Solid state DXM2.5 control features: Anti-short cycle, high & low pressure, loss of charge protection, LED fault, and status indication with memory for easy diagnostics.

Factory Quality & Certifications

- All units are built and factory run tested on our Integrated Process Control Assembly System (IPCS). The IPCS is a unique state-of-theart manufacturing system that is designed to assure quality of the higheststandardsofanymanufacturerinthewater-sourceindustry. Our IPCS system:
 - Verifies that the correct components are being assembled.
 - Automatically performs special leak tests on all joints.
 - Conducts pressure tests.
 - Performs detailed run test.
 - Automatically disables packaging for a "failed" unit.
 - Creates computer database for future service analysis and diagnostics from run test results.
- All refrigerant brazing is done in a nitrogen atmosphere.
- All units are deep evacuated to less than 240 microns prior to refrigerant charging.
- Alljointsarebothheliumandhalogenleaktestedtoinsureannual leak rate of less than 1/4 ounce.
- AHRI/ASHRAE/ANSI/ISO 13256-2 certified.
- ETL listed.
- US EPA "Energy Star" certified for GWHP applications.

Options & Accessories

- Cupro-nickel load heat exchanger.
- Hot water generator with internal pump.
- · Geothermal pumping modules

Warranty

- ClimateMaster residential class heat pumps are backed by a ten-yearlimitedwarrantyonallunitparts, including the following accessory when installed with ClimateMaster units: Flow Controllers.
- ClimateMaster goes even further to back up its commitment to qualitybyincludingaservicelaborallowanceforthefirstfiveyears on unit parts and geothermal pumping modules.
- The Optional Extended Factory Service Labor Allowance Warranty offers additional length of term protection to the consumer by offsetting service labor costs for 10 years.

Tranquility Water-To-Water (TCW) Series

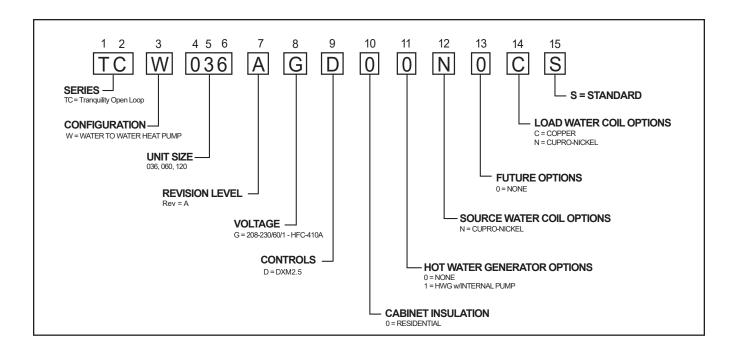
Tranquility Water-To-Water (TCW) Series Features

 Copeland[™] High Efficiency Scroll Compressor
Optional Hot Water Generator With Internal Pump
Fully Insulated Water and Refrigerant Lines
Fully Insulated Compressor Section
Powder Coated Steel Cabinet with Stainless Steel Access Panels For Long Life
System Operating LED Lights
Unit Performance Sentinel: Automatic Alert System Lets You Know If The System Is Not Running At Peak Performance
Dual Level Compressor Isolation Mounting for Ultra Quiet Operation
Multiple Removable Access Panels for Service
Coaxial heat exchangers





Unit Model Key



👠 WARNING! 🧴

WARNING! TCW IS FOR GROUND WATER INSTALLATIONS ONLY. Installing TCW on closed loop system will void warranty and unit will not be eligible for federal tax credit.

AHRI/ISO/ASHRAE/ANSI 13256-2 Performance

ASHRAE/AHRI/ISO 13256-2. English (I-P) Units

	Gro	und Wate	er Heat Pu	mp
	Coo	ling	Неа	ting
Model	Indoor Outdoo		Indoor Outdoo	-
	Capacity Btuh	EER Btuh/W	Capacity Btuh	СОР
TCW036	35,600	20.8	34,700	3.6
TCW060	60,900	20.8	58,600	3.5
TCW120	121,800	20.8	117,200	3.5

All ratings based upon 208V operation

ASHRAE/AHRI/ISO 13256-2. Metric (S-I) Units

	Gro	und Wate	er Heat Pu	mp
	Соо	ling	Hea	ting
Model	Indoor Outdoo	-	Indoor Outdoo	
	Capacity Watts	EER W/W	Capacity Watts	СОР
TCW036	10.43	6.1	10.17	3.6
TCW060	17.85	6.1	17.17	3.5
TCW120	35.70	6.1	34.35	3.5

All ratings based upon 208V operation

Performance Data Selection Notes

Source Water must be bewtween 50° F (10° C) and 80° F (26° C) entering unit and flow 1.5 GPM per ton or higher. In cooling mode.

If unit load leaving water temperature (LWT) is below 40° F (4.4° C) installer must clip JW2 on DXM2.5 and add appropriate type of antifreeze and protect to 15° F (-9.5° C). Never clip JW3.

Antifreeze Correction Table

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

Performance Data — TCW036 - Cooling

	SOUF	RCE												LOAD	D										I
		Flow					Flow	4.5 GP	M					Flow 6	5.8 GP	м					Flow	9.0 GP	м		
EWT		W	PD	EWT	тс	Pow-	HR			W	PD	тс	Damas	HR	[W	PD	тс	Pow-	HR			W	PD
°F	GPM	PSI	FT	°F	Mb-	er	Mb-	LWT °F	EER	PSI	FT	Mb-	Power kW	Mb-	LWT °F	EER	PSI	FT	Mb-	er	Mb-	LWT °F	EER	PSI	FT
		1 51	• •	50	tuh	kW	tuh	-	01.0	-		tuh		tuh		00.7			tuh	kW	tuh		00.0		
				50	32.5	1.49	37.6	35.6	21.8	0.6	1.4	34.5	1.52	39.7	39.8	22.7	1.4	3.2	35.3	1.5	40.5	42.1	23.2	2.6	5.9
	4 5	1 0	2.1	60	36.8	1.53	42.0	43.6	24.1	0.5	1.2	38.4	1.54	43.6	48.6	24.9	1.3	3.1	39.2	1.5	44.5	51.3	25.3	2.5	5.8 5.6
	4.5	1.3	3.1	70	40.4	1.55	45.7	52.0	26.0	0.5	1.1	41.6 44.2	1.56	47.0 49.6	57.7 66.9	26.6 28.0	1.3 1.2	2.9 2.8	42.4	1.6	47.8	60.6	27.0	2.4	5.6
				80 90	43.2	1.57	48.6 50.5	60.8 69.9	27.5	0.4	0.9 0.8	44.2	1.58 1.60	49.0 51.7	76.3	28.9	1.1	2.0 2.6	44.8 46.6	1.6 1.6	50.3 52.1	70.0	28.1 28.9	2.3 2.2	5.4 5.1
				90 50	45.1 32.9	1.58	37.7	35.4	23.3	0.6		34.9	1.44	39.8	39.7	24.2	1.1	3.2	35.8	1.4	40.7	42.0	20.9	2.2	5.9
				60	37.3	1.41	42.2	43.4	25.7	0.0	1.4 1.2	38.9	1.44	43.9	48.5	26.6	1.4	3.1	39.7	1.4	44.7	51.2	24.0	2.0	5.8
50	6.8	3.4	7.8	70	40.9	1.47	46.0	51.8	27.8	0.5	1.1	42.2	1.48	47.2	57.5	28.4	1.3	2.9	42.9	1.5	48.0	60.5	28.8	2.4	5.6
50	0.0	5.4	1.0	80	40.9	1.49	48.9	60.5	29.4	0.3	0.9	44.8	1.50	49.9	66.7	29.9	1.2	2.9	45.4	1.5	40.0 50.6	69.9	30.0	2.4	5.4
				90	45.7	1.50	50.8	69.7	30.5	0.4	0.8	44.0	1.50	43.5	00.7	-				nended	30.0	05.5	50.0	2.5	5.4
				50	33.3	1.33	37.8	35.2	25.1	0.6	1.4	35.4	1.35	40.0	39.5	26.1	1.4	3.2	36.2	1.4	40.9	41.9	26.8	2.6	5.9
				60	37.8	1.35	42.4	43.2	27.8	0.0	1.4	39.4	1.37	40.0	48.3	28.7	1.4	3.1	40.2	1.4	44.9	51.1	20.0	2.0	5.8
	9.0	6.0	13.9	70	41.5	1.38	46.2	51.6	30.0	0.5	1.1	42.7	1.39	47.5	57.3	30.7	1.3	2.9	43.5	1.4	48.3	60.3	31.1	2.4	5.6
	0.0	0.0	10.0	80	44.3	1.40	49.1	60.3	31.7	0.4	0.9	45.4	1.41	50.2	66.6	32.3	1.2	2.8	46.0	1.4	50.8	69.8	32.5	2.3	5.4
				90	46.3	1.41	51.1	69.4	33.0	0.3	0.8	10.1		00.2	00.0	02.0	1.2	2.0	10.0		00.0	00.0	02.0	2.0	0.1
				50	30.1	1.96	36.8	36.6	15.3	0.6	1.4	32.1	1.95	38.8	40.5	16.4	1.4	3.2	33.0	2.0	39.7	42.7	16.7	2.6	5.9
				60	34.1	1.98	40.9	44.8	17.2	0.5	1.2	37.6	1.96	44.3	48.9	19.2	1.3	3.1	36.6	2.0	43.3	51.9	18.7	2.5	5.8
	4.5	1.0	2.3	70	39.0	2.01	45.9	52.7	19.4	0.5	1.1	41.7	1.98	48.5	57.6	21.0	1.3	2.9	39.9	2.0	46.7	61.1	19.9	2.4	5.6
	-		-	80	42.7	2.03	49.7	61.0	21.1	0.4	1.0	45.4	2.01	52.3	66.5	22.5	1.2	2.8	42.9	2.0	49.8	70.5	21.1	2.3	5.4
				90	46.2	2.05	53.2	69.5	22.5	0.3	0.8		1							1					
				50	30.5	1.86	36.8	36.5	16.4	0.6	1.4	32.5	1.85	38.8	40.4	17.5	1.4	3.2	33.4	1.9	39.8	42.6	17.8	2.6	5.9
				60	34.6	1.88	41.0	44.6	18.4	0.5	1.2	38.1	1.86	44.4	48.7	20.4	1.3	3.1	37.1	1.9	43.4	51.8	19.9	2.5	5.8
70	6.8	2.8	6.5	70	39.5	1.90	46.0	52.4	20.8	0.5	1.1	42.3	1.88	48.7	57.5	22.4	1.3	2.9	40.4	1.9	46.9	61.0	21.3	2.4	5.6
				80	43.3	1.93	49.9	60.8	22.5	0.4	0.9	46.0	1.91	52.5	66.4	24.1	1.2	2.8	43.4	1.9	50.0	70.3	22.5	2.3	5.4
				90	46.8	1.95	53.4	69.2	24.0	0.3	0.8														
				50	30.8	1.74	36.8	36.3	17.7	0.6	1.4	32.9	1.74	38.8	40.2	19.0	1.4	3.2	33.8	1.8	39.8	42.5	19.3	2.6	5.9
				60	35.0	1.76	41.0	44.4	19.9	0.5	1.2	38.6	1.75	44.5	48.6	22.1	1.3	3.1	37.5	1.7	43.5	51.7	21.5	2.5	5.8
	9.0	5.1	11.9	70	40.0	1.78	46.1	52.2	22.4	0.5	1.1	42.8	1.77	48.8	57.3	24.2	1.3	2.9	40.9	1.8	47.0	60.9	23.0	2.4	5.6
				80	43.8	1.81	50.0	60.5	24.3	0.4	0.9	46.6	1.79	52.7	66.2	26.0	1.2	2.8	44.0	1.8	50.2	70.2	24.3	2.3	5.4
				90	47.4	1.83	53.6	68.9	26.0	0.3	0.8														
				50	28.5	2.26	36.2	37.3	13.0	0.6	1.4	30.5	2.27	38.3	36.4	13.8	1.4	3.2	31.3	2.27	39.1	36.1	14.1	2.6	5.9
				60	32.6	2.28	40.4	45.5	14.7	0.5	1.2	35.8	2.28	43.6	44.1	16.1	1.3	3.1	35.1	2.26	42.8	44.4	15.9	2.5	5.8
	4.5	0.9	2.1	70	37.6	2.30	45.5	53.3	16.7	0.5	1.1	40.3	2.30	48.2	52.1	17.9	1.3	2.9	38.6	2.30	46.5	52.8	17.2	2.4	5.6
				80	41.6	2.32	49.5	61.5	18.3	0.4	1.0	44.2	2.33	52.1	60.4	19.4	1.2	2.8	42.0	2.33	49.9	61.3	18.3	2.3	5.4
				90	45.2	2.35	53.2	69.9	19.6	0.3	0.8				1	1				1					
				50	28.9	2.14	36.2	41.4	13.8	0.6	1.4	30.9	2.16	38.2	40.8	14.7	1.4	3.2	31.7	2.16	39.1	40.6	15.1	2.6	5.9
				60	33.0		40.4		15.6			36.2	2.16		49.3					2.14		49.5			
80	6.75	2.6	6.0	70	38.1	2.18	45.6		17.8		1.1	40.8	2.18	48.3						2.18	46.6		18.3		5.6
				80	42.1	2.21			19.5		0.9	44.7	2.21	52.3	66.7	20.7	1.2	2.8	42.5	2.21	50.1	67.4	19.6	2.3	5.4
				90	45.8		53.3																		
				50	29.3	2.01	36.1		14.9		1.4	31.3	2.02	38.2		15.9		3.2	32.1	2.02	39.0		16.3		5.9
				60	33.5	2.03	40.4		16.9			36.7	2.03	43.6					36.0	2.01		52.0			5.8
	9.0	4.8	11.1	70	38.6	2.05	45.6		19.3		1.1	41.3	2.05	48.3		20.7			39.6	2.04	46.6		19.8		5.6
				80	42.7	2.07	49.7		21.0		0.9	45.3	2.07	52.4	69.9	22.3	1.2	2.8	43.1	2.08	50.1	70.4	21.1	2.3	5.4
				90	46.3	2.09	53.4	79.7	22.6	0.3	0.8														

Interpolation is permissible, extrapolation is not

All performance data is based upon the lower voltage of dual voltage rated units See performance data notes for operation in the shaded areas.

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

Performance Data — TCW036 - Heating

	SOUF	RCE												LO	AD										Í
		Flow					Flow	4.5 GPN	1					Flow	6.8 GPN	1					Flow	9.0 GPN	1		
°F	GPM	W PSI	PD	EWT °F	HC Mbtuh	Power KW	HE Mbtuh	LWT °F	СОР		PD FT	HC Mbtuh	Power KW	HE Mbtuh	LWT °F	COP	<u> </u>	PD FT	HC Mbtuh	Power KW	HE Mbtuh	LWT °F	СОР		/PD FT
	4.5	1.3	FT 3.1	60 80 100 120 130						PSI	FI			tion N		omm	endeo							PSI	FI
50	6.75	3.4	7.8	60 80 100 120 130	37.7 36.6 35.2 33.4	1.56 2.00 2.60 3.37	32.4 29.8 26.3 21.9	76.8 96.3 115.6 134.8	7.1 5.4 4.0 2.9	0.5 0.4 0.3 0.2	1.2 0.9 0.7 0.5	38.4 37.1 35.5 33.4 32.2	1.48 1.89 2.46 3.19 3.60	33.3 30.7 27.1 22.5 19.9	71.4 91.0 110.5 129.9 139.5	7.6 5.7 4.2 3.1 2.6	1.3 1.2 1.1 0.9 0.8	3.1 2.8 2.5 2.1 1.9	38.5 37.3 35.5 33.3 32.0	1.44 1.84 2.40 3.10 3.51	33.6 31.0 27.3 22.7 20.1	68.6 88.3 107.9 127.4 137.1	7.9 5.9 4.3 3.1 2.7	2.5 2.3 2.1 1.8 1.7	5.8 5.4 4.9 4.3 3.9
	9.0	6.0	13.9	60 80 100 120 130	38.6 37.5 36.0 34.0	1.56 2.01 2.61 3.37	33.3 30.7 27.1 22.5	77.2 96.7 116.0 135.1	7.2 5.5 4.0 3.0	0.5 0.4 0.3 0.2	1.2 0.9 0.7 0.5	39.3 38.0 36.3 34.1 32.8	1.48 1.90 2.47 3.19 3.61	34.3 31.6 27.9 23.2 20.5	71.7 91.3 110.8 130.1 139.7	7.8 5.9 4.3 3.1 2.7	1.3 1.2 1.1 0.9 0.8	3.1 2.8 2.5 2.1 1.9	39.5 38.2 36.3 34.0 32.6	1.44 1.85 2.40 3.11 3.52	34.6 31.9 28.1 23.4 20.6	68.8 88.5 108.1 127.6 137.3	8.0 6.1 4.4 3.2 2.7	2.5 2.3 2.1 1.8 1.7	5.8 5.4 4.9 4.3 3.9
	4.5	1.2	2.7	60 80 100 120 130	39.0 38.6 37.6 36.0	-	33.6 31.8 28.7 24.5 eration no			0.5 0.4 0.3 0.2	1.2 0.9 0.7 0.5	39.7 39.2 38.0 36.1 34.8	1.48 1.90 2.47 3.19 3.61	34.6 32.7 29.6 25.2 22.5	71.8 91.6 111.3 130.7 140.3	7.8 6.0 4.5 3.3 2.8	1.3 1.2 1.1 0.9 0.8	3.1 2.8 2.5 2.1 1.9	39.9 39.3 38.0 36.0 34.7	1.44 1.85 2.40 3.11 3.51	34.9 33.0 29.8 25.4 22.7	68.9 88.7 108.5 128.0 137.7	8.1 6.2 4.6 3.4 2.9	2.5 2.3 2.1 1.8 1.7	5.8 5.4 4.9 4.3 3.9
60	6.75	3.1	7.1	60 80 100 120 130	40.6 40.2 39.1 37.2	1.57 2.01 2.61 3.38	35.3 33.4 30.2 25.7	78.1 97.9 117.4 136.5	7.6 5.9 4.4 3.2	0.5 0.4 0.3 0.2	1.2 0.9 0.7 0.5	41.4 40.8 39.5 37.3 35.9	1.49 1.90 2.47 3.20 3.62	36.3 34.3 31.0 26.4 23.6	72.3 92.1 111.7 131.1 140.6	8.2 6.3 4.7 3.4 2.9	1.3 1.2 1.1 0.9 0.8	3.1 2.8 2.5 2.1 1.9	41.6 41.0 39.5 37.3 35.8	1.45 1.85 2.41 3.11 3.52	36.6 34.6 31.3 26.6 23.8	69.2 89.1 108.8 128.3 138.0	8.4 6.5 4.8 3.5 3.0	2.5 2.3 2.1 1.8 1.7	5.8 5.4 4.9 4.3 3.9
	9.0	5.6	12.8	60 80 100 120 130	41.5 41.0 39.8 37.8	1.57 2.01 2.62 3.38	36.1 34.1 30.9 26.3	78.4 98.2 117.7 136.8	7.7 6.0 4.5 3.3	0.5 0.4 0.3 0.2	1.2 0.9 0.7 0.5	42.2 41.6 40.2 38.0 36.5	1.49 1.91 2.48 3.20 3.62	37.2 35.1 31.8 27.0 24.1	72.5 92.3 111.9 131.2 140.8	8.3 6.4 4.8 3.5 3.0	1.3 1.2 1.1 0.9 0.8	3.1 2.8 2.5 2.1 1.9	42.4 41.8 40.3 37.9 36.4	1.45 1.86 2.41 3.12 3.53	37.5 35.5 32.0 27.3 24.4	69.4 89.3 109.0 128.4 138.1	8.6 6.6 4.9 3.6 3.0	2.5 2.3 2.1 1.8 1.7	5.8 5.4 4.9 4.3 3.9
	4.5	1.0	2.3	60 80 100 120 130	42.1 42.4 41.6 39.8	1.58 2.02 2.62 3.38	36.7 35.5 32.7 28.3	78.7 98.8 118.5 137.7	7.8 6.2 4.7 3.5	0.5 0.4 0.3 0.2	1.2 0.9 0.7 0.5	42.9 43.0 42.1 40.0 38.6	1.49 1.91 2.48 3.20 3.62	37.8 36.5 33.6 29.1 26.3	72.7 92.7 112.5 131.9 141.4	8.4 6.6 5.0 3.7 3.1	1.3 1.2 1.1 0.9 0.8	3.1 2.8 2.5 2.1 1.9	43.1 43.2 42.2 40.0 38.5	1.46 1.86 2.41 3.12 3.53	38.1 36.8 33.9 29.4 26.5	69.6 89.6 109.4 128.9 138.6	8.7 6.8 5.1 3.8 3.2	2.5 2.3 2.1 1.8 1.7	5.8 5.4 4.9 4.3 3.9
70	6.75	2.8	6.5	60 80 100 120 130	43.6 43.8 43.0 41.0	1.58 2.02 2.62 3.39	38.2 36.9 34.0 29.5	79.4 99.5 119.1 138.2	8.1 6.4 4.8 3.5	0.5 0.4 0.3 0.2	1.2 0.9 0.7 0.5	44.4 44.5 43.5 41.3 39.7	1.50 1.91 2.49 3.21 3.63	39.3 38.0 35.0 30.3 27.3	73.2 93.2 112.9 132.2 141.8	8.7 6.8 5.1 3.8 3.2	1.3 1.2 1.1 0.9 0.8	3.1 2.8 2.5 2.1 1.9	44.7 44.7 43.6 41.3 39.7	1.46 1.86 2.42 3.13 3.54	39.7 38.4 35.3 30.6 27.6	69.9 89.9 109.7 129.2 138.8	9.0 7.0 5.3 3.9 3.3	2.5 2.3 2.1 1.8 1.7	5.8 5.4 4.9 4.3 3.9
	9.0	5.1	11.9	60 80 100 120 130	44.3 44.5 43.6 41.6	1.59 2.02 2.63 3.40	38.9 37.6 34.6 30.0	79.7 99.8 119.4 138.5	8.2 6.4 4.9 3.6	0.5 0.4 0.3 0.2	1.2 0.9 0.7 0.5	45.1 45.2 44.1 41.8 40.2	1.50 1.92 2.49 3.22 3.64	40.0 38.7 35.6 30.9 27.8	73.4 93.4 113.1 132.4 141.9	8.8 6.9 5.2 3.8 3.2	1.3 1.2 1.1 0.9 0.8	3.1 2.8 2.5 2.1 1.9	45.4 45.4 44.2 41.8 40.2	1.46 1.87 2.42 3.13 3.54	40.4 39.1 36.0 31.1 28.1	70.1 90.1 109.8 129.3 138.9	9.1 7.1 5.4 3.9 3.3	2.5 2.3 2.1 1.8 1.7	5.8 5.4 4.9 4.3 3.9
	4.5	0.9	2.0	60 90 80 100 120 130	44.4 45.6 45.6 45.4 43.8	1.52 1.94 2.22 2.54 3.34	39.2 38.9 38.1 36.7 32.5	79.7 100.2 110.3 120.2 139.5	8.6 6.9 6.0 5.2 3.9	0.5 0.4 0.3 0.3 0.2	1.2 0.9 0.8 0.7 0.5	45.2 46.3 46.3 46.0 44.2 42.7	1.44 1.84 2.10 2.41 3.16 3.61	40.3 40.1 39.2 37.8 33.4 30.4	80.1 100.6 110.6 120.4 139.6 149.0	9.2 7.4 6.5 5.6 4.1 3.5	1.3 1.2 1.1 1.1 0.9 0.8	3.1 2.8 2.6 2.5 2.1 1.9	45.5 46.5 46.5 46.1 44.2 42.7	1.40 1.79 2.05 2.34 3.08 3.51	40.7 40.4 39.5 38.1 33.7 30.7	80.2 100.7 110.7 120.5 139.6 149.0	9.5 7.6 6.7 5.8 4.2 3.6	2.5 2.3 2.2 2.1 1.8 1.7	5.8 5.4 5.1 4.9 4.3 3.9
80	6.75	2.6	5.9	60 90 80 100 120 130	45.8 46.8 46.8 46.4 44.6	1.56 1.99 2.27 2.59 3.37	40.4 40.0 39.0 37.6 33.1	73.6 93.9 103.9 113.7 133.2	8.6 6.9 6.0 5.2 3.9	0.5 0.4 0.3 0.3 0.2	1.2 0.9 0.8 0.7 0.5	42.7 46.6 47.6 47.5 47.0 44.9 43.4	1.47 1.88 2.15 2.45 3.19 3.63	41.6 41.2 40.2 38.6 34.1 31.0	73.8 94.1 104.1 113.9 133.3 142.8	9.3 7.4 6.5 5.6 4.1 3.5	1.3 1.2 1.1 1.1 0.9 0.8	3.1 2.8 2.6 2.5 2.1 1.9	42.7 46.9 47.8 47.7 47.1 45.0 43.3	1.44 1.83 2.09 2.39 3.11 3.53	42.0 41.5 40.5 39.0 34.4 31.3	73.9 94.2 104.1 114.0 133.3 142.8	9.6 7.6 6.7 5.8 4.2 3.6	2.5 2.3 2.2 2.1 1.8 1.7	5.8 5.4 5.1 4.9 4.3 3.9
	9.0	4.8	11.0	60 90 80 100 120	47.1 48.0 47.9 47.4 45.4	1.60 2.03 2.32 2.64 3.41	41.7 41.1 40.0 38.4 33.7	70.5 90.7 100.6 110.5 130.1	8.7 6.9 6.1 5.3 3.9	0.5 0.4 0.3 0.3 0.2	1.2 0.9 0.8 0.7 0.5	43.4 48.1 48.8 48.6 48.1 45.7	1.51 1.93 2.19 2.50 3.23	42.9 42.3 41.2 39.5 34.7	70.7 90.9 100.8 110.7 130.2	9.3 7.4 6.5 5.6 4.2	1.3 1.2 1.1 1.1 0.9	3.1 2.8 2.6 2.5 2.1	43.3 48.3 49.0 48.8 48.2 45.8	1.47 1.88 2.13 2.43 3.14	43.3 42.7 41.5 39.9 35.0	70.7 90.9 100.8 110.7 130.2	9.6 7.7 6.7 5.8 4.3	2.5 2.3 2.2 2.1 1.8	5.8 5.4 5.1 4.9 4.3

Interpolation is permissible, extrapolation is not,

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

Performance data is not the rated power supply, performance may vary as the power supply varies frrom the rated.

Performance Data — TCW060 - Cooling

	SOUR	CE											1	LOAD					1						
		Flow					Flow 7.	5 GPM					F	ow 11.2	5 GPN	1					Flow 15	.0 GPI	vi		
EWT °F		-	PD	EWT °F	тс	Power	HR	LWT		W	PD	тс	Power	HR	LWT		W	PD	тс	Power	1	LWT		w	PD
	GPM	PSI		, r	Mbtuh	kW	Mbtuh	°F	EER	PSI	FT	Mbtuh	kW	Mbtuh	°F	EER	PSI		Mbtuh	kW	Mbtuh	°F	EER	PSI	FT
				50	52.6	2.20	60.1	38.2	23.9	1.4	3.3	53.5	2.23	61.1	41.0	24.0	3.5	8.0	55.3	2.25	63.0	42.5	24.6	4.8	11.0
				60	53.2	2.22	60.8	47.1	23.9	1.4	3.2	54.1	2.25	61.7	50.5	24.1	3.3	7.7	55.9	2.27	63.7	52.4	24.7	4.6	10.6
	7.5	1.3	2.9	70	53.8	2.24	61.4	56.0	24.0	1.3	3.0	54.7	2.26	62.4	60.0	24.1	3.2	7.4	56.6	2.29	64.4	62.2	24.7	4.4	10.1
				80	55.5	2.24	63.2	64.7	24.7	1.2	2.9	56.4	2.27	64.1	69.4	24.9	3.1	7.1	58.4	2.29	66.2	72.0	25.5	4.3	9.8
				90	57.2	2.25	64.9	73.5	25.5	1.2	2.7	58.1	2.27	65.9	78.9	25.6	3.0	6.9	60.2	2.29	68.0	81.8	26.3	4.1	9.5
				50	53.4	2.23	61.0	38.0	24.0	1.4	3.3	54.1	2.25	61.8	40.8	24.1	3.5	8.0	56.0	2.27	63.8	42.3	24.7	4.8	11.0
				60	55.5	2.25	63.1	46.7	24.7	1.4	3.2	56.2	2.27	64.0	50.1	24.8	3.3	7.7	58.2	2.29	66.0	52.0	25.4	4.6	10.6
50	11.25	3.4	7.9	70	57.5	2.26	65.3	55.4	25.4	1.3	3.0	58.3	2.29	66.1	59.4	25.5	3.2	7.4	60.4	2.31	68.3	61.6	26.1	4.4	10.2
				80	58.1	2.27	65.8	64.3	25.6	1.2	2.9	58.9	2.29	66.7	69.0	25.7	3.1	7.1	60.9	2.31	68.8	71.5	26.4	4.3	9.8
				90	58.6	2.27	66.3	73.2	25.8	1.2	2.7	59.4	2.29	67.2	78.5	25.9	3.0	6.9	61.5	2.31	69.4	81.4	26.6	4.1	9.5
				50	55.6	2.25	63.2	35.8	24.7	1.4	3.3	56.5	2.27	64.2	40.3	24.9	3.5	8.0	57.9	2.29	65.8	42.1	25.2	4.8	11.1
				60	57.5	2.27	65.2	45.0	25.3	1.4	3.2	58.7	2.29	66.6	49.8	25.6	3.3	7.7	61.5	2.31	69.4	51.5	26.6	4.6	10.6
	15.0	6.2	14.2	70	59.4	2.29	67.2	54.1	26.0	1.3	3.0	61.0	2.31	68.9	59.3	26.4	3.2	7.4	65.1	2.33	73.1	60.9	27.9	4.4	10.1
				80	60.3	2.29	68.1	63.5	26.4	1.2	2.9	61.8	2.31	69.7	68.7	26.7	3.1	7.1	65.8	2.34	73.8	70.8	28.2	4.2	9.8
				90	61.3	2.29	69.1	72.8	26.7	1.2	2.7	62.6	2.31	70.5	78.1	27.0	3.0	6.9	66.6	2.34	74.6	80.7	28.5	4.1	9.4
				50	49.1	2.82	58.7	38.1	17.4	1.4	3.3	50.3	2.85	60.0	41.1	17.7	3.5	8.0	52.0	2.88	61.8	42.9	18.1	4.7	11.0
				60	53.2	2.84	62.9	46.4	18.7	1.4	3.2	54.5	2.87	64.3	50.0	19.0	3.3	7.7	56.3	2.90	66.2	52.3	19.4	4.6	10.5
	7.5	1.1 2	2.5	70	57.2	2.86	67.0	54.8	20.0	1.3	3.0	58.7	2.89	68.5	59.1	20.3	3.2	7.4	60.6	2.92	70.6	61.7	20.8	4.4	10.1
				80	59.3	2.92	69.3	63.4	20.3	1.2	2.9	60.8	2.95	70.9	68.3	20.6	3.1	7.1	62.9	2.98	73.0	71.4	21.1	4.3	9.8
				90	61.4	2.98	71.6	71.9	20.6	1.2	2.7	63.0	3.01	73.3	77.6	20.9	3.0	6.9	65.1	3.04	75.5	81.1	21.4	4.1	9.5
				50	50.2	2.85	59.9	38.0	17.6	1.4	3.3	51.4	2.88	61.2	41.0	17.8	3.5	8.0	53.1	2.91	63.0	42.8	18.3	4.8	11.0
70	11.05	20	6.9	60 70	54.5 58.9	2.87	64.3 68.8	46.2	19.0	1.4	3.2 3.0	55.9 60.4	2.90 2.92	65.8 70.3	49.8	19.3	3.3	7.7	57.7 62.4	2.93 2.94	67.7 72.4	52.1	19.7	4.6	10.6 10.2
10	11.25	3.0	0.9	70 80	60.8	2.89 2.95	70.8	54.5 63.1	20.4 20.6	1.3	2.9	62.3	2.92	70.3	58.8 68.1	20.7 20.9	3.2 3.1	7.4 7.1	64.4	3.01	74.6	61.4 71.1	21.2	4.4 4.3	9.9
				90	62.6	3.01	70.8	71.7	20.0	1.2	2.9	64.2	3.04	74.5	77.3	20.9	3.0	6.9	66.3	3.07	76.8	80.8	21.4	4.3	9.9 9.6
				50	51.2	2.88	61.0	36.9	17.8	1.4	3.3	53.3	2.91	63.2	40.8	18.3	3.5	8.0	54.3	2.94	64.3	42.6	18.5	4.1	11.0
				60	55.6	2.90	65.5	45.4	19.2	1.4	3.2	57.6	2.93	67.6	49.6	19.7	3.3	7.7	59.4	2.94	69.5	51.8	20.1	4.6	10.6
	15.0	5.5	12.8	70	60.1	2.92	70.1	53.9	20.6	1.3	3.0	61.9	2.94	72.0	58.5	21.0	3.2	7.4	64.5	2.97	74.6	61.1	21.7	4.4	10.0
		0.0		80	62.3	2.98	72.5	62.7	20.9	1.2	2.9	64.1	3.01	74.4	67.8	21.3	3.1	7.1	67.1	3.04	77.5	70.6	22.1	4.2	9.8
				90	64.6	3.04	74.9	71.5	21.3	1.2	2.7	66.3	3.07	76.8	77.1	21.6	3.0	6.9	69.8	3.10	80.3	80.2	22.5	4.1	9.5
				50	44.8	3.57	57.0	38.7	12.5	1.4	3.3	46.3	3.61	58.6	41.6	12.8	3.5	8.0	47.5	3.65	59.9	43.4	13.0	4.7	10.9
				60	50.7	3.61	63.0	46.8	14.0	1.4	3.2	52.3	3.65	64.8	50.3	14.3	3.3	7.7	53.7	3.68	66.3	52.6	14.6	4.5	10.5
	7.5	0.9	2.1	70	56.6	3.65	69.0	54.9	15.5	1.3	3.0	58.4	3.69	70.9	59.1	15.8	3.2	7.4	59.9	3.72	72.6	61.8	16.1	4.4	10.1
				80	59.6	3.73	72.4	63.4	16.0	1.2	2.9	61.5	3.77	74.4	68.2	16.3	3.1	7.1	63.1	3.81	76.1	71.3	16.6	4.3	9.8
				90	62.7	3.82	75.7	71.9	16.4	1.2	2.7	64.7	3.86	77.9	77.3	16.8	3.0	6.9	66.4	3.90	79.7	80.9	17.0	4.1	9.6
				50	45.9	3.61	58.2	38.6	12.7	1.4	3.3	47.4	3.65	59.8	41.5	13.0	3.5	8.0	48.6	3.68	61.2	43.4	13.2	4.8	11.0
				60	51.8	3.65	64.3	46.7	14.2	1.4	3.2	53.5	3.68	66.0	50.2	14.5	3.3	7.7	54.9	3.72	67.6	52.5	14.7	4.6	10.6
90	11.25	2.7	6.1	70	57.7	3.69	70.3	54.8	15.7	1.3	3.0	59.6	3.72	72.3	58.9	16.0	3.2	7.4	61.1	3.76	73.9		16.2	4.4	10.2
				80	60.7	3.77	73.6	63.2	16.1	1.2	2.9	62.6	3.81	75.7	68.0	16.4	3.1	7.1	64.3	3.85	77.4	71.1	16.7	4.3	9.9
				90	63.7	3.86	76.9	71.7	16.5	1.2	2.7	65.7	3.90	79.0	77.1	16.9	3.0	6.9	67.4	3.94	80.9	80.6	17.1	4.1	9.6
				50	46.5	3.65	59.0		12.8				3.68	61.1	41.4					3.72	62.2	43.3	13.3		
		5.0 1		60	52.4	3.68	64.9		14.2				3.72	66.9	50.1	14.6	3.3	7.7	55.8	3.76	68.6	52.4	14.8	4.6	10.5
	15.0		11.6	70	58.2	3.72	70.9		15.6				3.76	72.7					62.0	3.80	75.0		16.3		10.1
				80	61.6	3.81	74.6		16.2				3.85	76.6	67.8					3.89	79.0		16.9		
				90	65.1	3.90	78.4	71.6	16.7	1.2	2.7	67.0	3.94	80.5	77.0	17.0	3.0	6.9	69.5	3.98	83.1	80.2	17.5	4.1	9.5

Performance Data — TCW060 - Cooling

	SOUR	CE												LOAD											
E W/T	F	low					Flow 7.	5 GPM					F	low 11.2	5 GPN	Л					Flow 15	.0 GPI	М		
EWT °F	GPM		PD	EWT °F	TC Mbtuh	Power kW	HR Mbtuh	LWT °F	EER	W		TC Mbtuh	Power kW	HR Mbtuh	LWT °F	EER	WF		TC Mbtuh	Power kW	HR Mbtuh	L₩T °F	EER	<u> </u>	PD
		PSI	FT	= 0				<u> </u>			FT						PSI	FT				•	0.0	PSI	
				50	39.8	4.46	55.0	39.9	8.9	1.4	3.3	41.3	4.50	56.7	42.5	9.2		8.0	41.7	4.55	57.3	44.1	9.2	4.7	10.9
				60	45.8	4.54	61.3	48.2	10.1	1.4	3.2	47.5	4.58	63.1	51.2	10.4	3.3	7.7	48.0	4.63	63.8	53.2	10.4	4.5	10.4
	7.5	0.8	1.8	70	51.8	4.62	67.5	56.4	11.2	1.3	3.0	53.7	4.66	69.6	60.0	11.5	3.2	7.4	54.3	4.71	70.4	62.4	11.5	4.3	10.0
				80	56.4	4.69	72.4	64.9	12.0	1.2	2.9	58.5	4.74	74.7	69.0	12.3	3.1	7.1	59.1	4.79	75.5	71.7	12.3	4.2	9.8
				90	61.0	4.77	77.3	73.4	12.8	1.2	2.7	63.3	4.82	79.7	78.0	13.1	3.0	6.9	64.0	4.87	80.6	81.1	13.1	4.2	9.6
				50	40.6	4.50	56.0	39.9	9.0	1.4	3.3	42.2	4.55	57.7	42.4	9.3	3.5	8.0	42.6	4.60	58.3	44.1	9.3	4.8	11.0
				60	47.3	4.58	62.9	48.1	10.3	1.4	3.2	49.0	4.63	64.8	51.2	10.6	3.3	7.7	49.6	4.68	65.5	53.2	10.6	4.6	10.5
110	11.25	2.4	5.6	70	53.9	4.66	69.8	56.3	11.6	1.3	3.0	55.9	4.71	72.0	59.9	11.9	3.2	7.4	56.5	4.76	72.7	62.2	11.9	4.4	10.1
				80	57.9	4.74	74.0	64.7	12.2	1.2	2.9	60.0	4.79	76.4	68.8	12.5	3.1	7.1	60.7	4.84	77.2	71.5	12.5	4.2	9.8
				90	61.8	4.82	78.3	73.1	12.8	1.2	2.7	64.1	4.87	80.8	77.7	13.2	3.0	6.9	64.8	4.92	81.6	80.8	13.2	4.1	9.5
				50	41.5	4.55	57.1	39.4	9.1	1.4	3.3	42.3	4.60	58.0	42.4	9.2	3.5	8.0	43.8	4.64	59.7	44.0	9.4	4.7	10.8
				60	47.6	4.63	63.4	47.4	10.3	1.4	3.2	48.5	4.68	64.5	51.1	10.4	3.3	7.7	50.7	4.72	66.8	53.1	10.7	4.5	10.5
	15.0	4.6	10.7	70	53.7	4.71	69.8	55.3	11.4	1.3	3.0	54.7	4.76	70.9	59.9	11.5	3.2	7.4	57.6	4.80	74.0	62.2	12.0	4.4	10.2
				80	58.3	4.79	74.6	64.2	12.2	1.2	2.9	59.7	4.84	76.2	68.7	12.3	3.1	7.1	61.7	4.89	78.4	71.4	12.6	4.3	9.8
				90	62.8	4.87	79.4	73.0	12.9	1.2	2.7	64.8	4.92	81.6	77.6	13.2	3.0	6.9	65.8	4.97	82.8	80.7	13.2	4.1	9.5

Interpolation is permissible, extrapolation is not All performance data is based upon the lower voltage of dual voltage rated units See performance data notes for operation in the shaded areas.

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

Performance Data — TCW060 - Heating

	SOUR	RCF							_					LOAD)										
		Flow					Flow 7.	5 GPM			_			Flow 11		1					Flow 1	5.0 GPN	1		
EWT		w	PD	EWT		Denner		LWT		w	PD	нс	Damas				w	PD	нс	Dames				w	PD
°F	GPM	PSI	FT	°F	HC Mbtuh	Power kW	HE Mbtuh	°F	COP	PSI	FT	Mbtuh	Power kW	HE Mbtuh	°F	COP	PSI	FT	Mbtuh	Power kW	HE Mbtuh	LWT °F	COP	PSI	FT
				60																					
				80							_														
	7.5	1.3	2.9	100 120							0	PERA	ATION	ΙΝΟΤ	REC	COM	MEI	NDE	ED						
				130																					
				60	64.7	2.73	55.4	77.4	6.9	1.4	3.2	65.1	2.68	56.0	71.3	7.1	3.3	7.7	65.5	2.62	56.5	68.5	7.3	6.0	13.8
				80	62.8	3.52	50.8	96.9	5.2	1.2	2.9	63.1	3.45	51.4	91.3	5.4	3.1	7.1	63.4	3.38	51.9	88.3	5.5	5.6	13.0
50	11.25	3.4	7.9	100	60.8	4.48	45.5	116.2	4.0	1.1	2.6	61.0	4.39	46.0	110.9	4.1	2.9	6.7	61.1	4.30	46.5	108.0	4.2	5.3	12.3
				120 130	58.6	5.61	39.4	135.4	3.1	1.1	2.4	58.6 57.9	5.50 6.22	39.8 36.7	130.2 139.9	3.1 2.7	2.8	6.4 6.2	58.6 57.8	5.39 6.09	40.2 37.1	127.7	3.2	5.1	11.7 11.5
				60	66.5	2.76	57.1	78.0	7.1	1.4	3.2	66.9	2.70	57.7	71.9	7.3	3.3	7.7	67.3	2.65	58.3	69.0	7.4	6.0	13.8
				80	64.7	3.55	52.6	97.2	5.3	1.2	2.9	65.0	3.48	53.1	91.6	5.5	3.1	7.1	65.3	3.41	53.6	88.6	5.6	5.6	13.0
	15.0	6.2	14.2	100	62.5	4.52	47.1	116.4	4.1	1.1	2.6	62.7	4.43	47.6	111.1	4.1	2.9	6.7	62.9	4.34	48.0	108.2	4.2	5.3	12.3
				120 130	60.0	5.67	40.6	135.6	3.1	1.1	2.4	60.0 58.8	5.55 6.28	41.0 37.3	130.5 140.3	3.2 2.7	2.8	6.4 6.2	60.0 58.7	5.44 6.15	41.4 37.7	127.9	3.2	5.1	11.7 11.5
				60	64.9	2.76	55.5	78.5	6.9	1.4	3.2	65.2	2.70	56.0	71.7	7.1	3.3	7.7	65.6	2.65	56.6	68.6	7.3	6.0	13.8
				80	64.8	3.54	52.7	98.1	5.4	1.2	2.9	65.1	3.47	53.3	91.8	5.5	3.1	7.1	65.4	3.40	53.8	88.6	5.6	5.6	13.0
	7.5	1.2	2.7	100	63.7	4.49	48.3	117.6	4.2	1.1	2.6	63.9	4.40	48.8	111.5	4.3	2.9	6.7	64.1	4.31	49.4	108.4	4.4	5.3	12.3
				120 130	61.4	5.60 Opera	42.3 tion not	136.7 recomm	3.2 ended	1.1	2.4	61.5 60.2	5.48 6.21	42.8 39.1	130.9 140.8	3.3 2.8	2.8	6.4 6.2	61.6 60.0	5.37 6.02	43.2 39.5	128.0	3.4 2.9	5.1	11.7 11.5
				60	67.7	2.78	58.2	79.0	7.1	1.4	3.2	68.1	2.73	58.8	72.2	7.3	3.3	7.7	68.5	2.67	59.4	69.1	7.5	6.0	13.8
				80	67.7	3.58	55.5	98.7	5.5	1.2	2.9	68.0	3.51	56.0	92.3	5.7	3.1	7.1	68.3	3.44	56.6	89.1	5.8	5.6	13.0
60	11.25	3.2	7.3	100 120	66.4 64.0	4.54 5.67	50.9 44.6	118.1 137.2	4.3 3.3	1.1 1.1	2.6	66.6 64.1	4.45 5.56	51.5 45.1	112.0 131.3	4.4 3.4	2.9 2.8	6.7 6.4	66.9 64.2	4.36 5.45	52.0 45.6	108.9	4.5	5.3 5.1	12.3 11.7
				130	04.0	5.07	44.0	137.2	5.5	1.1	2.4	63.1	6.27	41.7	141.0	3.0	2.0	6.2	62.9	6.08	42.2	138.1	3.0	5.0	11.5
				60	70.0	2.81	60.4	79.4	7.3	1.4	3.2	70.4	2.76	61.0	72.6	7.5	3.3	7.7	70.8	2.70	61.6	69.5	7.7	6.0	13.8
				80	70.0	3.62	57.7	99.0	5.7	1.2	2.9	70.4	3.54	58.3	92.6	5.8	3.1	7.1	70.7	3.47	58.9	89.4	6.0	5.6	13.0
	15.0	5.8	13.5	100 120	68.8 66.2	4.60 5.75	53.1 46.6	118.3 137.4	4.4 3.4	1.1	2.6	69.0 66.3	4.50 5.63	53.6 47.1	112.2 131.6	4.5 3.4	2.9 2.8	6.7 6.4	69.2 66.4	4.41 5.52	54.2 47.5	109.1	4.6	5.3 5.1	12.3 11.7
				130	00.2	3.75	40.0	137.4	3.4	1.1	2.4	00.5	3.03	47.1	131.0	3.4	2.0	0.4	64.6	6.14	43.6	138.4	3.1	5.0	11.5
				60	68.6	2.81	59.0	80.1	7.2	1.4	3.2	69.0	2.76	59.6	72.6	7.3	3.3	7.7	69.5	2.70	60.2	69.2	7.5	6.0	13.8
				80	69.8	3.61	57.5	100.0	5.7	1.2	2.9	70.2	3.53	58.1	92.8	5.8	3.1	7.1	70.5	3.46	58.7	89.4	6.0	5.6	13.0
	7.5	1.1	2.5	100 120	69.2 66.7	4.55 5.64	53.6 47.4	119.5 138.5	4.5 3.5	1.1	2.6	69.4 66.8	4.46 5.52	54.2 47.9	112.6 132.0	4.6 3.5	2.9 2.8	6.7 6.4	69.7 66.9	4.37 5.41	54.8 48.5	109.3	4.7	5.3 5.1	12.3 11.7
				130	00.1	0.01		100.0	0.0		2.1	00.0	0.02	11.0	102.0	0.0	2.0	0.1	65.0	6.01	44.5	138.6	3.2	5.0	11.5
				60	70.7	2.84	61.0	80.7	7.3	1.4	3.2	71.2	2.78	61.7	73.2	7.5	3.3	7.7	71.6	2.73	62.3	69.7	7.7	6.0	13.8
				80	72.5	3.64	60.1	100.5	5.8	1.2	2.9	72.9	3.57	60.7	93.3	6.0	3.1	7.1	73.2	3.50	61.3	89.9	6.1	5.6	13.0
70	11.25	3.0	6.9	100 120	72.1 69.4	4.61 5.73	56.3 49.9	119.9 139.0	4.6 3.5	1.1	2.6	72.3 69.6	4.52 5.62	56.9 50.4	113.1 132.4	4.7 3.6	2.9 2.8	6.7 6.4	72.6 69.7	4.43 5.51	57.5 50.9	109.7	4.8	5.3 5.1	12.3 11.7
				130															68.0	6.07	47.3	138.9	3.3	5.0	11.5
				60	73.5	2.87	63.7	80.9	7.5	1.4	3.2	73.9	2.81	64.3	73.4	7.7	3.3	7.7	74.4	2.75	65.0	70.0	7.9	6.0	13.8
	15.0	F F	12.0	80	75.4	3.68 4.67	62.8 59.1	100.7 120.2	6.0	1.2	2.9	75.8	3.61	63.5	93.5	6.2	3.1 2.9	7.1 6.7	76.2 75.6	3.53	64.1	90.1	6.3	5.6 5.3	13.0 12.3
	15.0	5.5	12.8	100 120	75.1 72.5	4.67 5.83	59.1 52.6	120.2	4.7 3.6	1.1 1.1	2.6	75.3 72.6	4.57 5.71	59.7 53.1	113.3 132.7	4.8 3.7	2.9	6.4	75.6	4.48 5.60	60.3 53.6	129.5	4.9 3.8	5.3	12.3
				130											ı 				70.4	6.13	49.5	139.2	3.4	5.0	11.5
				60	72.4	2.87	62.6	81.7	7.4	1.4	3.2	72.8	2.81	63.2	73.5	7.6	3.3	7.7	73.3	2.75	63.9	69.8	7.8	6.0	13.8
	7.5	10	2.3	80	74.8	3.67	62.3	101.8	6.0	1.2	2.9	75.2 75.0	3.60	62.9	93.9 113.8	6.1	3.1	7.1	75.6 75.3	3.52	63.6	90.2	6.3	5.6	13.0 12.3
	r.ə	1.0	2.3	100 120	74.7 71.9	4.61 5.68	58.9 52.5	121.4 140.4	4.8 3.7	1.1 1.1	2.6	75.0 72.1	4.51 5.56	59.6 53.1	113.8 133.2	4.9 3.8	2.9 2.8	6.7 6.4	75.3 72.3	4.42 5.45	60.2 53.7	110.2	5.0 3.9	5.3 5.1	12.3
				130															69.9	6.00	49.4	139.4	3.4	5.0	11.5
				60	73.7	2.89	63.9	82.3	7.5	1.4	3.2	74.2	2.84	64.5	74.1	7.7	3.3		74.7	2.78	65.2	70.3	7.9	6.0	13.8
80	11.25	2.8	6.5	80	77.3	3.71	64.7 61.8	102.3	6.1	1.2	2.9	77.7 78.0	3.63	65.3	94.3	6.3	3.1	7.1	78.2	3.56	66.0	90.6	6.4	5.6	13.0 12.3
80	11.20	2.0	0.0	100 120	77.7 74.8	4.67 5.79	61.8 55.1	121.8 140.7	4.9 3.8	1.1 1.1	2.6	78.0 75.0	4.58 5.68	62.4 55.7	114.2 133.5	5.0 3.9	2.9 2.8	6.7 6.4	78.4 75.2	4.49 5.56	63.0 56.2	110.6	5.1 4.0	5.3 5.1	12.3
				130															73.1	6.06	52.4	139.7	3.5	5.0	11.5
				60	76.9	2.92	67.0	82.4	7.7	1.4	3.2	77.4	2.87	67.6	74.2	7.9	3.3	7.7	77.9	2.81	68.3	70.4	8.1	6.0	13.8
	15.0	5.2	12.1	80	80.7 81.3	3.74	68.0 65.2	102.5	6.3	1.2	2.9	81.2 81.7	3.67	68.7	94.5	6.5	3.1	7.1	81.6 82.0	3.60	69.3	90.8	6.7	5.6	13.0
	15.0	5.3	12.1	100 120	81.3 78.7	4.74 5.91	65.2 58.5	122.0 141.0	5.0 3.9	1.1	2.6	81.7 78.9	4.64 5.79	65.8 59.1	114.4 133.8	5.2 4.0	2.9 2.8	6.7 6.4	82.0 79.1	4.55 5.68	66.5 59.7	110.8	5.3 4.1	5.3 5.1	12.3 11.7
				130															76.3	6.12	55.4	139.9	3.6	5.0	11.5
																				_					

Interpolation is permissible, extrapolation is not.

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.

Performance Data — TCW120 - Cooling

	SOU	RCE							_	_				LOAD									-		
		Flow					Flow 15.	0 GPM				<u> </u>		Flow 22	.5 GPM	1					Flow 3	0.0 GPI	vi		
EWT		W	PD	EWT	тс	Power	HR	LWT		W	PD	тс	Power	HR	LWT		w	PD	тс	Power	HR	LWT		w	/PD
°F	GPM	PSI	FT	°F	Mbtuh	kW	Mbtuh	°F	EER	PSI	FT	Mbtuh	kW	Mbtuh	°F	EER	PSI	FT	Mbtuh	kW	Mbtuh	°F	EER	PSI	FT
		_	_	50	105.2	4.41	120.3	38.2	23.9	1.6	3.7	106.9	4.45	122.1	41.0	24.0	3.8	8.8	110.7	4.50	126.0	42.5	24.6	6.8	15.7
				60	106.4	4.45	121.6	47.1	23.9	1.5	3.5	108.1	4.49	123.4	50.5	24.1	3.7	8.4	111.9	4.54	127.4	52.4	24.7	6.6	15.2
	15.0	1.4	3.2	70	107.6	4.48	122.9	56.0	24.0	1.4	3.3	109.3	4.53	124.8	60.0	24.1	3.5	8.1	113.1	4.57	128.7	62.2	24.7	6.4	14.7
				80	111.0	4.49	126.3	64.7	24.7	1.4	3.2	112.8	4.53	128.3	69.4	24.9	3.4	7.9	116.7	4.58	132.4	72.0	25.5	6.2	14.3
1				90	114.4	4.49	129.8	73.5	25.5	1.3	3.0	116.3	4.54	131.8	78.9	25.6	3.3	7.6	120.3	4.58	136.0	81.8	26.3	6.0	13.9
				50	106.8	4.45	122.0	38.0	24.0	1.6	3.7	108.3	4.50	123.6	40.8	24.1	3.8	8.8	112.1	4.54	127.6	42.3	24.7	6.8	15.7
				60	110.9	4.49	126.2	46.7	24.7	1.5	3.5	112.5	4.54	128.0	50.1	24.8	3.7	8.4	116.4	4.58	132.0	52.0	25.4	6.6	15.2
50	22.5	3.8	8.7	70	115.1	4.53	130.5	55.4	25.4	1.4	3.3	116.7	4.57	132.3	59.4	25.5	3.5	8.1	120.8	4.62	136.5	61.6	26.1	6.4	14.7
				80	116.1	4.53	131.6	64.3	25.6	1.4	3.2	117.7	4.58	133.4	69.0	25.7	3.4	7.9	121.9	4.62	137.6	71.5	26.4	6.2	14.3
				90	117.2	4.54	132.6	73.2	25.8	1.3	3.0	118.8	4.58	134.5	78.5	25.9	3.3	7.6	123.0	4.63	138.8	81.4	26.6	6.0	13.9
				50	111.1	4.50	126.5	35.8	24.7	1.6	3.7	113.0	4.54	128.5	40.3	24.9	3.8	8.8	115.9	4.59	131.5	42.1	25.2	6.8	15.7
				60	114.9	4.54	130.4	45.0	25.3	1.5	3.5	117.5	4.58	133.1	49.8	25.6	3.7	8.4	123.0	4.63	138.8	51.5	26.6	6.6	15.2
	30.0	6.8	15.6	70	118.8	4.57	134.4	54.1	26.0	1.4	3.3	122.0	4.62	137.8	59.3	26.4	3.5	8.1	130.2	4.67	146.1	60.9	27.9	6.4	14.7
				80	120.7	4.58	136.3	63.5	26.4	1.4	3.2	123.6	4.62	139.4	68.7	26.7	3.4	7.9	131.7	4.67	147.6	70.8	28.2	6.2	14.3
				90	122.5	4.58	138.2	72.8	26.7	1.3	3.0	125.2	4.63	141.0	78.1	27.0	3.3	7.6	133.2	4.68	149.1	80.7	28.5	6.0	13.9
				50	98.2	5.64	117.5	38.1	17.4	1.6	3.7	100.6	5.70	120.1	41.1	17.7	3.8	8.8	104.0	5.76	123.7	42.9	18.1	6.8	15.7
	15.0	1.2	2.7	60 70	106.3 114.4	5.68 5.71	125.7 133.9	46.4 54.8	18.7 20.0	1.5 1.4	3.5	109.0 117.3	5.74 5.77	128.6 137.0	50.0 59.1	19.0	3.7 3.5	8.4	112.6 121.3	5.79 5.83	132.4 141.2	52.3 61.7	19.4 20.8	6.6 6.4	15.2 14.7
	15.0	1.2	2.1	80	114.4	5.83	138.6	63.4	20.0	1.4	3.3	121.7	5.89	137.0	68.3	20.3	3.5	8.1 7.9	121.3	5.95	141.2	71.4	20.8	6.2	14.7
				90	122.9	5.95	143.2	71.9	20.5	1.4	3.0	121.7	6.02	141.8	77.6	20.0	3.3	7.6	130.2	6.08	151.0	81.1	21.1	6.0	14.5
				50	100.3	5.70	119.8	38.0	17.6	1.6	3.7	102.7	5.76	122.4	41.0	17.8	3.8	8.8	106.2	5.82	126.0	42.8	18.3	6.8	15.7
				60	100.0	5.74	128.7	46.2	19.0	1.5	3.5	111.7	5.79	131.5	49.8	19.3	3.7	8.4	115.5	5.85	135.4	52.1	19.7	6.6	15.2
70	22.5	3.3	7.6	70	117.9	5.77	137.6	54.5	20.4	1.4	3.3	120.7	5.83	140.6	58.8	20.7	3.5	8.1	124.8	5.89	144.9	61.4	21.2	6.4	14.7
				80	121.6	5.89	141.7	63.1	20.6	1.4	3.2	124.5	5.95	144.9	68.1	20.9	3.4	7.9	128.7	6.01	149.2	71.1	21.4	6.2	14.3
				90	125.2	6.02	145.8	71.7	20.8	1.3	3.0	128.3	6.08	149.1	77.3	21.1	3.3	7.6	132.6	6.14	153.6	80.8	21.6	6.0	13.9
1				50	102.4	5.76	122.0	36.9	17.8	1.6	3.7	106.6	5.82	126.4	40.8	18.3	3.8	8.8	108.5	5.88	128.6	42.6	18.5	6.8	15.7
				60	111.3	5.79	131.1	45.4	19.2	1.5	3.5	115.2	5.85	135.2	49.6	19.7	3.7	8.4	118.8	5.91	138.9	51.8	20.1	6.6	15.2
	30.0	6.1	14.1	70	120.2	5.83	140.1	53.9	20.6	1.4	3.3	123.9	5.89	144.0	58.5	21.0	3.5	8.1	129.0	5.95	149.3	61.1	21.7	6.4	14.7
				80	124.7	5.95	145.0	62.7	20.9	1.4	3.2	128.3	6.01	148.8	67.8	21.3	3.4	7.9	134.3	6.07	155.0	70.6	22.1	6.2	14.3
				90	129.1	6.08	149.9	71.5	21.3	1.3	3.0	132.6	6.14	153.6	77.1	21.6	3.3	7.6	139.5	6.20	160.7	80.2	22.5	6.0	13.9
				50	94.7	6.26	116.1	38.0	15.1	1.6	3.7	97.5	6.33	119.1	41.1	15.4	3.8	8.8	100.7	6.39	122.5	43.1	15.8	6.8	15.7
				60	106.3	6.30	127.8	46.1	16.9	1.5	3.5	109.4	6.36	131.1	49.8	17.2	3.7	8.4	113.0	6.42	134.9	52.3	17.6	6.6	15.2
	15.0	1.1	2.5	70	117.9	6.33	139.5	54.2	18.6	1.4	3.3	121.4	6.39	143.2	58.6	19.0	3.5	8.1	125.3	6.46	147.4	61.5	19.4	6.4	14.7
				80	122.5	6.51	144.7	62.7	18.8	1.4	3.2	126.1	6.57	148.6	67.8	19.2	3.4	7.9	130.3	6.64	152.9	71.1	19.6	6.2	14.3
				90	127.1	6.69	149.9	71.1	19.0	1.3	3.0	130.9	6.75	153.9	76.9	19.4	3.3	7.6	135.2	6.82	158.4	80.7	19.8	6.0	13.9
				50	97.1	6.33	118.7	38.0	15.3	1.6	3.7	99.9	6.39	121.7	41.1	15.6	3.8	8.8	103.2	6.45	125.2	43.0	16.0	6.8	15.7
80	22.5	3.1	7.1	60 70	108.2 119.3	6.36 6.39	129.9 141.1	46.0 54.0	17.0 18.7	1.5 1.4	3.5 3.3	111.4 122.8	6.42 6.46	133.3 144.8	49.7 58.4	17.3	3.7	8.4 8.1	115.0 126.8	6.49 6.52	137.1 149.1	52.2 61.3	17.7 19.4	6.6 6.4	15.2 14.7
00	22.5	3.1	1.1	80	124.3	6.57	141.1	62.5	18.9	1.4	3.2	122.0	6.64	150.6	67.6	19.0	3.4	7.9	132.1	6.71	155.0	70.9	19.4	6.2	14.7
				90	124.3	6.75	152.3	71.0	19.1	1.4	3.0	133.1	6.82	156.4	76.8	19.5	3.3	7.6	137.5	6.89	161.0	80.6	19.7	6.0	14.5
				50	98.0	6.39	119.8	37.4	15.3	1.6	3.7	103.4	6.45	125.4	41.0	16.0	3.8	8.8	104.8	6.52	127.1	42.9	16.1	6.8	15.7
				60	109.5	6.42	131.4	45.6	17.0	1.5	3.5	114.1	6.49	136.3	49.5	17.6	3.7	8.4	116.6	6.55	139.0	52.0	17.8	6.6	15.2
	30.0	5.8	13.4	70	120.9	6.46	143.0	53.8	18.7	1.4	3.3	124.8	6.52	147.1	58.1	19.1	3.5	8.1	128.4	6.59	150.9	61.1	19.5	6.4	14.7
				80	126.7	6.64	149.3	62.3	19.1	1.4	3.2	130.6	6.71	153.5	67.4	19.5	3.4	7.9	135.6	6.78	158.7	70.5	20.0	6.2	14.3
				90	132.4	6.82	155.7	70.8	19.4	1.3	3.0	136.3	6.89	159.8	76.7	19.8	3.3	7.6	142.7	6.96	166.5	80.0	20.5	6.0	13.9

Interpolation is permissible, extrapolation is not.

All performance data is based upon the lower voltage of dual voltage rated units. See performance data notes for operation in the shaded areas.

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

Performance Data — TCW120 - Heating

	SOU							_						LOAD				_							
		Flow					Flow 15	0 GPM						Flow 22							Flow 30	0 GPM			
EWT		r	PD	EWT	нс	Power	HE	LWT		WF	סי	нс	Power	HE	LWT		W	PD	НС	Power	HE	LWT		w	PD
°F	GPM	PSI	FT	°F	Mbtuh	kW	Mbtuh	°F	COP	PSI	FT	Mbtuh	kW	Mbtuh	°F	COP	PSI	FT	Mbtuh	kW	Mbtuh	°F	COP	PSI	
				60																					
	45.0		2.2	80							~						N 41-1		-n						
	15.0	1.4	3.2	100 120							C	PERA	ATION		REC		IVIEI	NDE	:D						
				130																					
				60	129.4	5.46	110.8	77.4	6.9	1.5	3.5	130.2	5.35	111.9	71.3	7.1	3.3	7.7	131.0	5.24	113.1	68.5	7.3	6.0	13.8
				80	125.7	7.04	101.7	96.9	5.2	1.4	3.2	126.3	6.90	102.7	91.3	5.4	3.1	7.1	126.8	6.76	103.8	88.3	5.5	5.6	13.0
50	22.5	3.8	8.7	100 120	121.6 117.2	8.96 11.22	91.0 78.9	116.2 135.4	4.0 3.1	1.3 1.2	2.9 2.7	121.9 117.2	8.78 11.00	92.0 79.7	110.9 130.2	4.1 3.1	2.9	6.7	122.3 117.3	8.60 10.78	92.9 80.5	108.0 127.7	4.2 3.2	5.3	12.3 11.7
				120	117.2	11.22	70.9	135.4	3.1	1.2	2.1	115.8	12.43	73.4	130.2	2.7	2.8	6.4 6.2	117.3	12.19	74.1	137.3	2.8	5.1	11.7
				60	133.0	5.51	114.2	78.0	7.1	1.5	3.5	133.8	5.40	115.3	71.9	7.3	3.3	7.7	134.6	5.30	116.5	69.0	7.4	6.0	13.8
				80	129.4	7.11	105.1	97.2	5.3	1.4	3.2	130.0	6.97	106.2	91.6	5.5	3.1	7.1	130.6	6.83	107.3	88.6	5.6	5.6	13.0
	30.0	6.8	15.6	100	125.0	9.05	94.2	116.4	4.1	1.3	2.9	125.4	8.87	95.1	111.1	4.1	2.9	6.7	125.7	8.69	96.1	108.2	4.2	5.3	12.3
				120	119.9	11.34	81.2	135.6	3.1	1.2	2.7	120.0	11.11	82.1	130.5	3.2	2.8	6.4	120.0	10.89	82.9	127.9	3.2	5.1	11.7
				130 60	129.7	5.51	110.9	78.5	6.9	1.5	3.5	117.5 130.5	12.56 5.40	74.7 112.1	140.3 71.7	2.7 7.1	2.7	6.2 7.7	117.4 131.3	12.31 5.30	75.4 113.2	137.7 68.6	2.8 7.3	5.0 6.0	11.5 13.8
				80	129.6	7.09	105.4	98.1	5.4	1.4	3.2	130.2	6.95	106.5	91.8	5.5	3.1	7.1	130.9	6.81	107.6	88.6	5.6	5.6	13.0
	15.0	1.3	3.0	100	127.3	8.98	96.7	117.6	4.2	1.3	2.9	127.7	8.80	97.7	111.5	4.3	2.9	6.7	128.2	8.63	98.7	108.4	4.4	5.3	12.3
				120	122.8	11.19	84.7	136.7	3.2	1.2	2.7	123.0	10.97	85.6	130.9	3.3	2.8	6.4	123.2	10.75	86.5	128.0	3.4	5.1	11.7
				130		OPERATI					0.5	120.5	12.42	78.1	140.8	2.8	2.7	6.2	120.1	12.04	79.0	137.9	2.9	5.0	11.5
				60 80	135.5 135.3	5.57 7.16	116.4	79.0 98.7	7.1 5.5	1.5 1.4	3.5 3.2	136.3 136.0	5.46 7.02	117.6 112.1	72.2 92.3	7.3 5.7	3.3 3.1	7.7 7.1	137.1 136.7	5.35 6.88	118.8 113.2	69.1 89.1	7.5 5.8	6.0 5.6	13.8 13.0
60	22.5	3.5	8.1	100	132.9	9.09	101.9	118.1	4.3	1.3	2.9	133.3	8.90	102.9	112.0	4.4	2.9	6.7	133.7	8.73	104.0	108.9	4.5	5.3	12.3
				120	128.0	11.34	89.3	137.2	3.3	1.2	2.7	128.2	11.12	90.2	131.3	3.4	2.8	6.4	128.3	10.89	91.2	128.5	3.5	5.1	11.7
				130								126.3	12.54	83.5	141.0	3.0	2.7	6.2	125.9	12.17	84.4	138.1	3.0	5.0	11.5
				60	140.0	5.63	120.8	79.4	7.3	1.5	3.5	140.8	5.51	122.0	72.6	7.5	3.3	7.7	141.7	5.40	123.2	69.5	7.7	6.0	13.8
	30.0	6.4	14.8	80 100	140.1 137.6	7.23 9.19	115.4	99.0 118.3	5.7 4.4	1.4 1.3	3.2 2.9	140.8 138.0	7.09 9.01	116.6 107.3	92.6 112.2	5.8 4.5	3.1 2.9	7.1 6.7	141.5 138.5	6.95 8.83	117.7 108.4	89.4 109.1	6.0 4.6	5.6 5.3	13.0 12.3
	00.0	0.4	14.0	120	132.4	11.50	93.2	137.4	3.4	1.2	2.7	132.6	11.27	94.1	131.6	3.4	2.8	6.4	132.7	11.04	95.1	128.7	3.5	5.1	11.7
				130															129.1	12.29	87.2	138.4	3.1	5.0	11.5
				60	137.2	5.62	118.0	80.1	7.2	1.5	3.5	138.1	5.51	119.3	72.6	7.3	3.3	7.7	138.9	5.40	120.5	69.2	7.5	6.0	13.8
	45.0	10	0.7	80	139.6	7.21	115.0	100.0	5.7	1.4	3.2	140.3	7.07	116.2	92.8	5.8	3.1	7.1	141.1	6.93	117.4	89.4	6.0	5.6	13.0
	15.0	1.2	2.7	100 120	138.3 133.3	9.01 11.27	107.3 94.9	119.5 138.5	4.5 3.5	1.3 1.2	2.9 2.7	138.8 133.6	8.92 11.05	108.4 95.9	112.6 132.0	4.6	2.9 2.8	6.7 6.4	139.4 133.9	8.74 10.83	109.6 96.9	109.3 128.9	4.7 3.6	5.3 5.1	12.3 11.7
				130	100.0		01.0	100.0	0.0	1.2	2.7	100.0	11.00	00.0	102.0	0.0	2.0	0.1	130.0	12.02	88.9	138.6	3.2	5.0	11.5
				60	141.5	5.68	122.1	80.7	7.3	1.5	3.5	142.3	5.57	123.3	73.2	7.5	3.3	7.7	143.2	5.46	124.6	69.7	7.7	6.0	13.8
				80	145.0	7.29	120.1	100.5	5.8	1.4	3.2	145.7	7.14	121.4	93.3	6.0	3.1	7.1	146.5	7.00	122.6	89.9	6.1	5.6	13.0
70	22.5	3.3	7.6	100	144.1	9.22	112.7	119.9	4.6	1.3	2.9	144.7	9.03	113.9	113.1	4.7	2.9	6.7	145.2	8.85	115.0	109.7	4.8	5.3	12.3
				120 130	138.9	11.46	99.7	139.0	3.5	1.2	2.7	139.1	11.24	100.8	132.4	3.6	2.8	6.4	139.4 136.1	11.01 12.15	101.8 94.6	129.3 138.9	3.7 3.3	5.1	11.7 11.5
				60	146.9	5.74	127.3	80.9	7.5	1.5	3.5	147.8	5.62	128.6	73.4	7.7	3.3	7.7	148.7	5.50	129.9	70.0	7.9	6.0	13.8
				80	150.8	7.36	125.7	100.7	6.0	1.4	3.2	151.6	7.21	126.9	93.5	6.2	3.1	7.1	152.3	7.07	128.2	90.1	6.3	5.6	13.0
	30.0	6.1	14.1	100	150.1	9.33	118.3	120.2	4.7	1.3	2.9	150.7	9.15	119.5	113.3	4.8	2.9	6.7	151.3	8.97	120.7	109.9	4.9	5.3	12.3
				120	144.9	11.66	105.1	139.2	3.6	1.2	2.7	145.2	11.43	106.2	132.7	3.7	2.8	6.4	145.5	11.20	107.3	129.5	3.8	5.1	11.7
				130 60	144.7	5.73	125.2	81.7	7.4	1.5	3.5	145.6	5.62	126.5	73.5	7.6	3.3	7.7	140.8 146.5	12.27 5.51	98.9 127.8	139.2 69.8	3.4 7.8	5.0 6.0	11.5 13.8
				80	144.7	7.34	123.2	101.8	6.0	1.5	3.2	150.4	7.19	125.9	93.9	6.1	3.1	7.1	140.5	7.05	127.0	90.2	6.3	5.6	13.0
	15.0	1.1	2.5	100	149.3	9.21	117.9	121.4	4.8	1.3	2.9	149.9	9.03	119.1	113.8	4.9	2.9	6.7	150.6	8.85	120.4	110.2	5.0	5.3	12.3
				120	143.8	11.35	105.1	140.4	3.7	1.2	2.7	144.2	11.13	106.2	133.2	3.8	2.8	6.4	144.5	10.91	107.3	129.8	3.9	5.1	11.7
				130	447.5	5 70	407.7	00.0	7.5	4.5	2.5	140.4	E 07	100.0	74.4	77	2.0	77	139.8	12.00	98.9	139.4	3.4	5.0	11.5
				60 80	147.5 154.7	5.79 7.41	127.7 129.4	82.3 102.3	7.5 6.1	1.5 1.4	3.5 3.2	148.4 155.5	5.67 7.26	129.0 130.7	74.1 94.3	7.7 6.3	3.3 3.1	7.7 7.1	149.3 156.3	5.56 7.12	130.3 132.0	70.3 90.6	7.9 6.4	6.0 5.6	13.8 13.0
80	22.5	3.1	7.1	100	154.7	9.34	129.4	102.3	4.9	1.4	3.2 2.9	155.5	9.16	124.8	94.5	5.0	2.9	6.7	156.7	8.97	126.1	90.6 110.6	5.1	5.3	13.0 12.3
				120	149.7	11.59	110.2	140.7	3.8	1.2	2.7	150.1	11.35	111.3	133.5	3.9	2.8	6.4	150.4	11.13	112.5	130.1	4.0	5.1	11.7
				130															146.2	12.13	104.9	139.7	3.5	5.0	11.5
				60	153.9	8.85	133.9	82.4	7.7	1.5	3.5	154.8	5.73	135.3	74.2	7.9	3.3	7.7	155.8	5.62	136.6	70.4	8.1	6.0	13.8
	30.0	5.8	13.4	80 100	161.5 162.7	7.49 9.48	135.9 130.3	102.5 122.0	6.3	1.4	3.2	162.3 163.3	7.34 9.29	137.3 131.6	94.5 114.4	6.5 5.2	3.1 2.9	7.1	163.2 164.0	7.19 9.10	138.7 133.0	90.8 110.8	6.7 5.3	5.6 5.3	13.0 12.3
	30.0	0.0	13.4	120	157.4	9.46	130.3	122.0	5.0 3.9	1.3 1.2	2.9 2.7	157.8	9.29 11.59	118.3	133.8	5.2 4.0	2.9	6.7 6.4	158.2	9.10 11.36	119.4	130.4	4.1	5.1	12.3
				130			· ···												152.5	12.25	110.7	139.9	3.6	5.0	11.5
									_									_							_

Interpolation is permissible, extrapolation is not.

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.

Physical Data

Model	036	060	120				
Compressor (qty)	Scro	Scroll (2)					
Factory Charge HFC-410A (oz) [kg] Per Circuit	72 [2.04]	96 [2.49]	96 [2.49]				
Water Connection Size							
Source/Load	1" Si	1-1/2 FPT					
HWG (in)	1" Si	1/2" FPT					
Weight - Operating (lbs) [kg]	348 [158]	360 [163]	726 [329]				
Weight - Packaged (lbs) [kg]	373 [169]	385 [175]	770 [349]				
Water Volume (Source)							
Gallons (Liters)	0.96 (3.64)	2.65 (10.02)					

Dual isolated compressor mounting

Balanced port expansion valve (TXV) Insulated Source and Load Water Coils standard Insulated Refrigerant Circuit standard

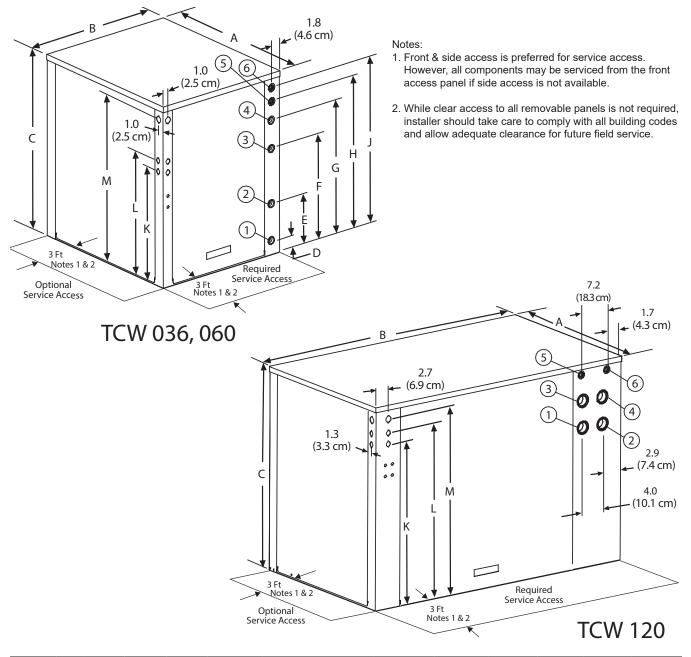
Compressor on (green) and fault (red) light

Electrical Data

Madal	Model Voltage Rated		Min/Max	Compressor			HWG Pump	EXT Loop Pump	Total Unit	Min Circuit	Max Fuse/
Woder	Code V	Voltage	Voltage	RLA	LRA	QTY	FLA	FLA	FLA	Amps	HACR
036	G	208-230/60/1	197/252	16.7	79.0	1	0.5	4.0	21.2	25.3	40
060	G	208-230/60/1	197/252	26.3	134.0	1	0.5	4.0	30.8	37.3	60
120	G	208-230/60/1	197/252	26.3	134.0	2	0.5	4.0	57.1	63.6	80

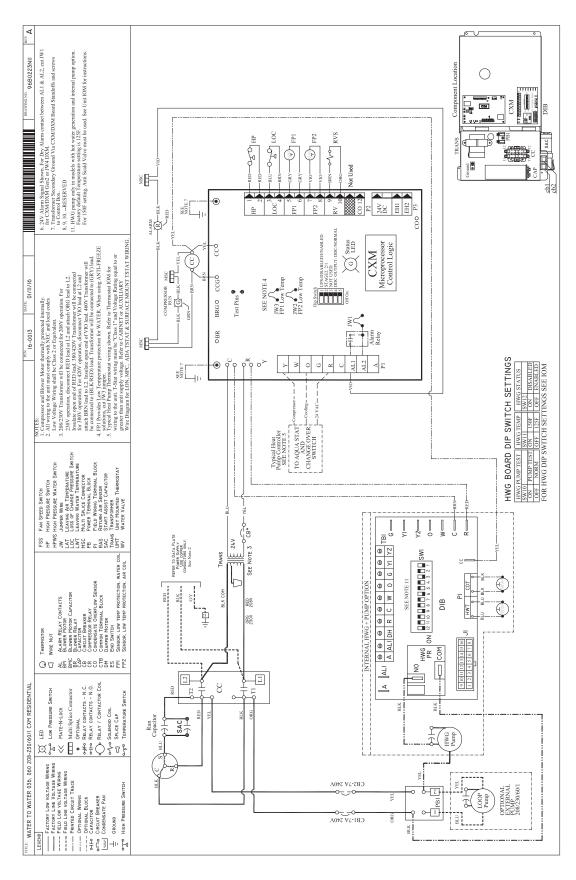
HACR circuit breaker in USA only Residential units come standard with 75VA transformer, HWG pump, and HWG connections

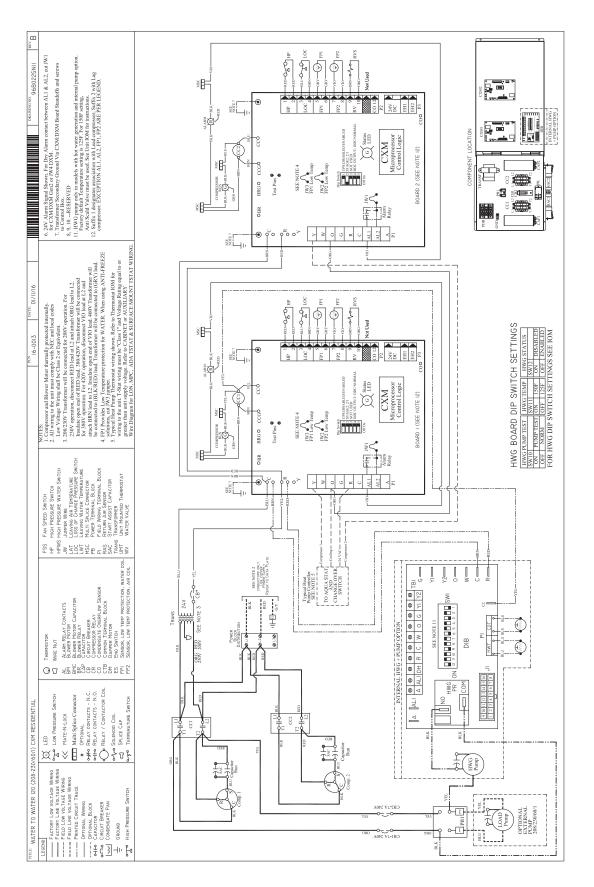
Dimensions - TCW036, TCW060 & TCW120



		Overall Cabinet			Water Connections							Electric Access Plugs		
Water to Water		Overall Cabillet			1	2	3	4	5	6	Liecule Access Flugs			
		A Depth	B Width	C Height	D Source (Outdoor) Water In	E Source (Outdoor) Water Out	F Load (Indoor) Water In	G Load (Indoor) Water Out	H HWG Water In	J HWG Water Out	K Low Voltage	L External Pump	M Power Supply	
036-060	in.	30.6	25.4	33	2.7	9.4	19.4	24.5	27.9	30.4	20.9	22.9	30.9	
030-060	cm.	77.8	64.5	83.8	6.9	23.9	49.3	62.2	70.9	77.2	53.1	58.2	78.5	
120	in.	30.6	52.9	37	25.2	25.2	30.1	30.1	34.9	34.9	29.9	31.9	34.4	
120	cm.	77.8	134.4	94	64.0	64.0	76.5	76.5	88.6	88.6	75.9	81.0	87.4	

TCW036 & TCW060 Electrical Wiring Diagram - 96B0223N11





TCW120 Electrical Wiring Diagram - 96B0225N11

Accessories & Warranty

Accessories & Options

Hot Water Generator

The optional Hot Water Generator includes an insulated double wall vented heat reclaiming heat exchanger suitable for potable water. The heat exchanger coil and hot water circulating pump are factory mounted internal to the unit. The microprocessor Hot Water Generator control uses sensors to monitor the entering potable water temperature and the compressor discharge line temperature and allows the Hot Water Generator to operate any time conditions permit. The Hot Water Generator includes a pump sampling mode to sense the hot water storage temperature while the Hot Water Generator is inactive.

Flow Controller (field installed)

Aself-contained modules hall provide all fluid pumping requirements for systems up to 20 GPM. The Flow Controller shall provide 1" pump isolation valves and 3-way service valves. Pump heads shall be removable from the volute for easy replacement. The Flow Controller shall be enclosed in a polystyrene case and fully insulated with ure than foam to prevent condensation. The Flow Controller shall have a 5-year warranty on all parts.

Hose Connection Kit (field installed)

An accessory hose kit shall provide 150psi 1" rubber hose with brass fittings equipped with service pressure/temperature ports for connection between the unit and Flow Controller.

Warranty Information

ClimateMaster residential class heat pumps are backed by a ten-year limited warranty on all unit parts, including the following accessories when installed with ClimateMaster units: Geothermal Pump Modules. ClimateMaster goes even further to back up its commitment to quality by including a service labor allowance for the first five years on unit parts and thermostats, auxiliary electric heaters and geothermal pumping modules.

See ClimateMaster's 2010 Limited Express Residential Warranty Certificate RP851 for specific coverage and limitation.

The Optional Extended Factory Service Labor Allowance Warranty offers additional length of term protection to the consumer by offsetting service labor costs for 10 years.

To order this warranty, contact your ClimateMaster distributor. This coverage must be purchased within 90 days of unit installation. See Limited Express Extended Labor Warranty Certificate RP852 for details.



Revision History

Date	Page #	Description
April 4, 2024	5	Updated the Unit Model Key
December 22, 2022	All	Transitioned from DXM2 to DXM2.5
April 14, 2016	2,3,7,18	Updated series features, warranty and deleted engineering specs.
December 14, 2015	All	Published



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ClimateMaster works continually to improve its products. As a result, the design and specifications of each product at the time for 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.

Engineered and Assembled in the USA

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Published:April 4, 2024