

TRANQUILITY HIGH TEMPERATURE (THW)

The THW Series offers an extended range refrigeration circuit, capable of ground loop (geothermal) applications as well as open loop (well water) applications. Unique application-specific controls make the THW Series ideal for hydronic heating and domestic hot water generation. The heating-only refrigeration circuit is optimized for high water temperatures, heating efficiencies, and capacities.



Features

- 1 Appliance-Style Cabinet for Attractive Look
- 2 High Temperature Scroll Compressor
- 3 Fully Insulated Water and Refrigerant Lines
- 4 Fully Insulated Compressor Section
- 5 Powder Coated Galvanized Steel Cabinet and Stainless Steel Front Access Panel for Long Life
- 6 Dual Level Compressor Isolation and Discharge Muffler for Ultra Quiet operation
- 7 Rugged Coaxial "Source" Heat Exchanger
- 8 Close Approach Temperature Braze Plate Stainless Steel "Load" Heat Exchanger
- 9 Optional Full Condensing Hot Water Generation With Internal Secondary Heat Exchanger and Potable Water Circulating Pump
- 10 Optional Factory Installed "Load" and "Source" Pumps with Expansion Tanks
- 11 Large Backlight User Interface
- 12 Hinged Front Access Door and Three Removable Panels for Ease of Installation and Service
- 13 12-Point Terminal Strip for Ease of Low Voltage Wiring

Application Flexibility

- Capacity 10kW [32,600 Btu/h]
- High temperature scroll compressor, up to 145°F [63°C] leaving water temperature
- Ultra high efficiencies (4.2 COP at ground loop conditions; up to 5.2 COP at ground water conditions)
- Built-in programmable controller with Outdoor Temperature Reset and Warm Weather Shutdown
- Rugged coaxial (tube-in-tube) "Source" heat exchanger (copper or cupro-nickel)
- Close approach temperature braze plate stainless steel "Load" heat exchanger
- Flush-mount FPT fittings, secured to the cabinet (no backup wrench required)
- 12-point low voltage terminal strip for ease of installation
- Wide variety of options including internally factory installed Domestic Hot Water Mode, Load and Source side pumps with expansion tanks, VSFP (variable speed floor pump connection) Controls and cupro-nickel Source Heat Exchanger
- Standard 10-year limited warranty on all parts with 5-year labor allowance; Optional additional extended 5-year limited labor allowance available



CLIMATEMASTER® GEOTHERMAL HEAT PUMP SYSTEMS

SMART | RESPONSIBLE | COMFORTABLE

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Performance and Specifications

Tranquility THW ISO Ratings

AHRI/ISO/ASHRAE 13256-2 Data (English (IP) Units)

Model	Ground Loop Heat Pump				Ground Water Heat Pump			
	Heating				Heating			
	Indoor 86/95°F Outdoor 32/27°F		Indoor 104/113°F Outdoor 32/27°F		Indoor 86/95°F Outdoor 50/45°F		Indoor 104/113°F Outdoor 50/45°F	
	Capacity Mbtuh	COP	Capacity Mbtuh	COP	Capacity Mbtuh	COP	Capacity Mbtuh	COP
THW010	32.6	4.2	30.8	3.3	42.6	5.2	39.9	4.1

Indoor temperature is also called "Load;" outdoor temperature is also called "Source." Numbers shown with "/" indicate entering/leaving water temperatures. Bold outline indicates typical radiant floor application temperatures. Ratings at 40°C [104°F] are based upon AHRI/ISO Standard 13256-2; all other ratings are based upon Standard EN 14511-2.

Dimensional Data

Model	Overall Cabinet			
	A Depth	B Width	C Height	
010	in.	26.8	25.6	48.9
	cm.	68.1	65.1	124.2

Options

	Factory Option
Full Condensing Hot Water Generation With Internal Secondary Heat Exchanger and Potable Water Circulating Pump	<input checked="" type="radio"/>
Factory Installed "Load" and "Source" Pumps with Expansion Tanks	<input checked="" type="radio"/>
Cupro-Nickel Source Water Coil	<input checked="" type="radio"/>
Additional Extended 5-Year Limited Labor Allowance	<input checked="" type="radio"/>



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Intertek

