

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 Brazed 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 brazed 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

Tranquility High Temperature (THW)

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"/>



7300 S.W. 44th Street
Oklahoma City, OK 73179
Phone: 405-745-6000
Fax: 405-745-6058
climatemaster.com | cmdealernet.com

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. For specific information on the current design and specifications go to cmdealernet.com. 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.

ClimateMaster is a company of LSB Industries, Inc. New York Stock Exchange Symbol: LXU

The management system governing the manufacture of ClimateMaster's products is ISO 9001:2000 certified.



Intertek

