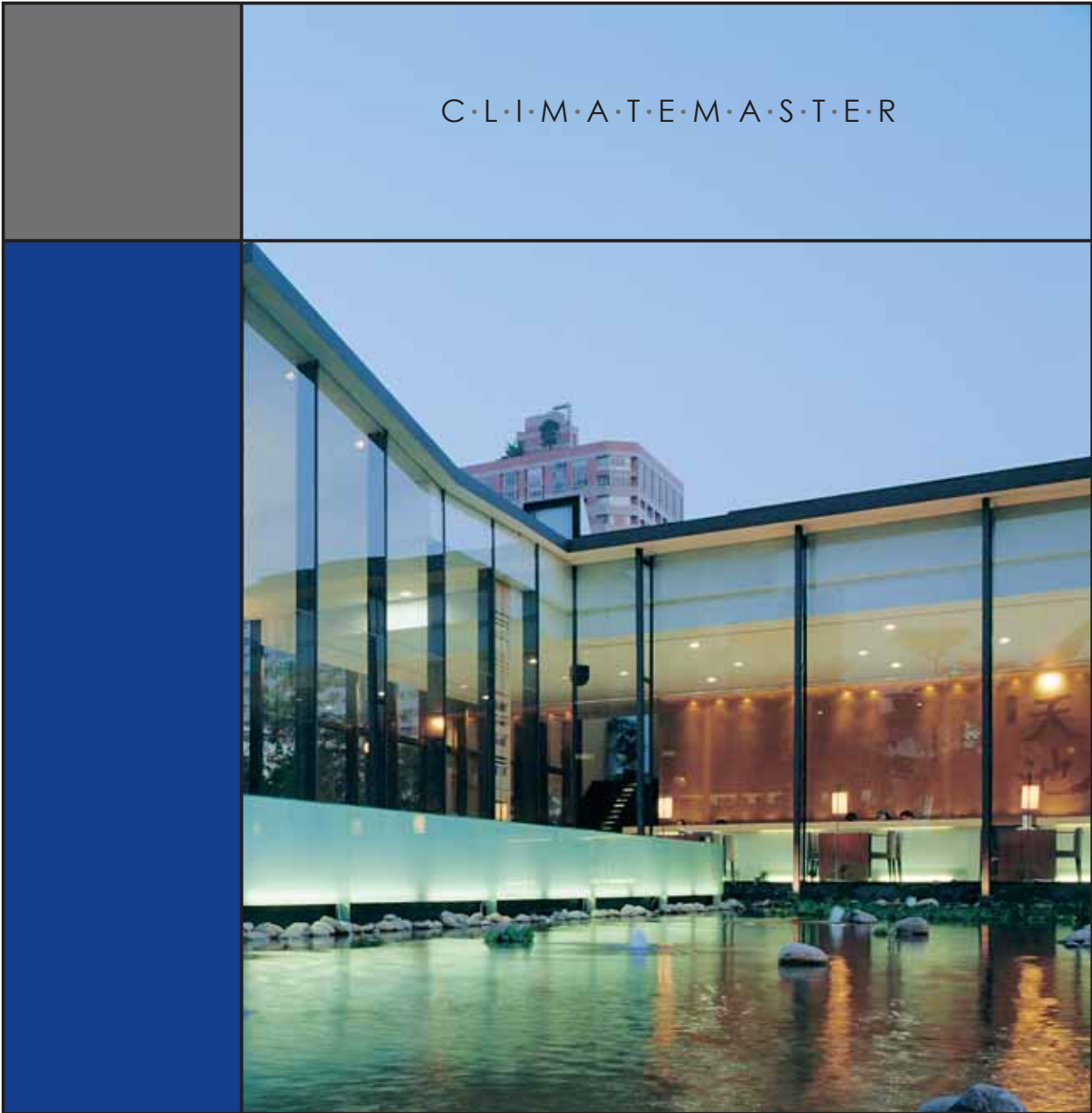


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TRANQUILITY WATER-TO-WATER

(TMW) Series

High Efficiency EarthPure®
Water-to-Water Heat Pumps
Model 100



THE TRANQUILITY WATER-TO-WATER (TMW) SERIES

The TMW water-to-water series offers high efficiency and high capacity with advanced features, quiet operation and application flexibility at competitive prices. As ClimateMaster's largest water-to-water unit, the TMW series can be used for radiant floor heating, snow/ice melt, chilled water for fan coils, industrial process control, potable hot water generation*, hot/chilled water for make-up air, and many other types of HVAC and industrial applications that require cost effective heated or chilled water.

The Tranquility (TMW) Series offers high efficiencies, and also uses EarthPure® HFC-410A zero ozone depletion refrigerant, making it an extremely environmentally-friendly option. The unit is eligible for additional LEED® (Leadership in Energy and Environmental Design) points because of the "green" technology design.

Available in 100 kW capacity, the TMW series provides high capacity in a small footprint, which saves mechanical room space. The TMW has an extended range refrigerant circuit (refrigerant and water circuit insulation is standard), capable of ground loop (geothermal) applications as well as water loop (boiler-tower) applications. Standard features are many. Microprocessor controls, galvanized steel cabinet, polyester powder coat paint and TXV refrigerant metering device are just some of the features of the flexible TMW series. The uniquely-designed coaxial heat exchangers are designed for many years of reliable operation.

ClimateMaster's dual-isolated compressor mounting and heavy gauge steel cabinet helps make the TMW series the quietest large capacity water-to-water unit on the market. Two scroll compressors operate quietly, and provide part load operation for capacity control. Options such as DDC controls and UltraQuiet™ sound attenuation package allow customized design solutions. For ease of installation and service, access to the refrigeration service and electrical control panel is located at the front of the unit, allowing units to be installed side-by-side for large capacity applications (see below).

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

UNIT FEATURES

- Model 100
- Two Copeland scroll compressors
- Dual independent refrigeration circuits
- Exclusive single side service access (front of unit) allows multiple units to be installed side-by-side for large capacity installations
- Top water connections, staggered for ease of manifolding multiple units
- Exceeds ASHRAE 90.1 efficiencies
- Heavy gauge galvanized steel construction with polyester powder coat paint and stainless steel front access panels
- Insulated compressor compartment
- Small footprint
- TXV metering devices
- Extended range (-6.7 to 43.3°C) operation
- Microprocessor controls standard (optional DXM and/or DDC controls)
- LonWorks, BACnet, Modbus and Johnson N2 compatibility options for DDC controls
- Compressor "run" and "fault" lights on the front of the cabinet
- Seven safeties standard
- Options include UltraQuiet™ sound attenuation package and Cupro-Nickel heat exchanger(s)

*Requires field supplied secondary heat exchanger.



Front View of a TMW100 Unit

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Copeland scroll compressors with dual-isolation mounting for quiet operation

Extended range insulated water/refrigerant circuit standard

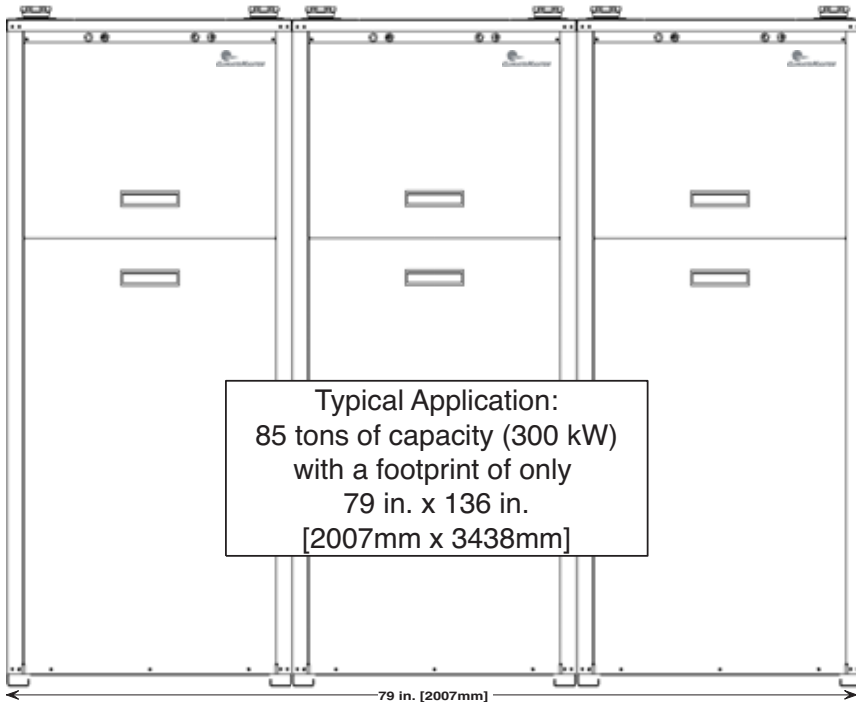


Advanced digital controls with Remote Service Sentinel and compressor "run" and "fault" LED. Optional Enhanced controls (DXM) & DDC Controllers



Features EarthPure® HFC-410A zero ozone depletion refrigerant

Manifold top water connections of multiple "modules" to handle large capacity hot or chilled water applications.



Typical Application:
85 tons of capacity (300 kW)
with a footprint of only
79 in. x 136 in.
[2007mm x 3438mm]

Exclusive single-side service access. Units may be installed side-by-side.



PERFORMANCE AND SPECIFICATIONS

AHRI/ISO/ASHRAE 13256-2 Data

Model	Water Loop Heat Pump				Ground Water Heat Pump				Ground Loop Heat Pump			
	Cooling		Heating		Cooling		Heating		Cooling		Heating	
	Indoor 12°C Outdoor 30°C		Indoor 40°C Outdoor 20°C		Indoor 12°C Outdoor 15°C		Indoor 40°C Outdoor 10°C		Indoor 12°C Outdoor 25°C		Indoor 40°C Outdoor 0°C	
	Capacity Watts	EER W/W	Capacity Watts	COP W/W	Capacity Watts	EER W/W	Capacity Watts	COP W/W	Capacity Watts	EER W/W	Capacity Watts	COP W/W
TMW100	68227	4.3	91559	5.0	78450	6.38	73147	3.97	73807	4.99	57366	3.18

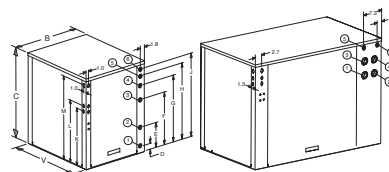
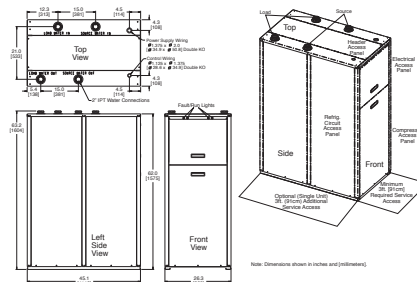
All ratings based upon 380V operation
Indoor coil also called "Load" and outdoor coil also called "Source"

Dimensional Data

Model	Overall Cabinet	Overall Cabinet		
		W	D	H
100	in. mm.	26.3 669	45.1 1146	63.2 1604

Voltage Options

Model	Volts	Hz	Phase
100	380/420	50	3




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