



THE SMART SOLUTION FOR ENERGY EFFICIENCY

GENESIS LARGE WATER-TO-WATER (GLW) SERIES 30 TON WATER-TO-WATER UNITS



ClimateMaster Water-Source Heat Pumps Genesis Large Water-to-Water (GLW) Series 30 Ton Water-to-Water Units

THE GENESIS LARGE WATER-TO-WATER (GLW) SERIES

The GLW 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 GLW 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.

Available in 30 ton capacity (106 kW), the GLW series provides high capacity in a small footprint, which saves mechanical room space. The GLW 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, G90 galvanized steel cabinet, epoxy powder coat paint and TXV refrigerant metering device are just some of the features of the flexible GLW series. The brazed plate heat exchangers with stainless steel plates are designed for many years of reliable operation.

ClimateMaster's heavy gauge steel cabinet helps make the GLW series the quietest large capacity water-to-water unit on the market. Two 15-ton 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.

The GLW 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

- Size 360 (30 ton, 106 kW)
- Two 15-ton Copeland scroll compressors
- Dual independent refrigeration circuits
- Exceeds ASHRAE 90.1 efficiencies
- Heavy gauge G90 galvanized steel construction with epoxy powder coat paint
- Insulated compressor compartment
- Small footprint
- Compressor access from the front of the unit
- TXV metering devices
- Extended range (20 to 110°F, -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

The Smart Choice for Energy Efficiency



Copeland scroll compressors



Extended range insulated water/refrigerant circuit standard (shown with optional UltraQuiet mute package)



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

Easy service access from three sides



Dual compressor refrigeration circuit

PERFORMANCE AND SPECIFICATIONS

ARI/ISO/ASHRAE 13256-2 Data (English (IP) Units & Metric (SI) Units)*

Model	Voltage & Refrigerant	Water Loop Heat Pump				Ground Water Heat Pump				Ground Loop Heat Pump			
		Cooling		Heating		Cooling		Heating		Cooling		Heating	
		Indoor 53.6°F [30°C] Outdoor 86°F [30°C]		Indoor 104°F [40°C] Outdoor 68°F [20°C]		Indoor 53.6°F [12°C] Outdoor 59°F [15°C]		Indoor 104°F [40°C] Outdoor 50°F [10°C]		Indoor 53.6°F [12°C] Outdoor 77°F [25°C]		Indoor 104°F [40°C] Outdoor 32°F [0°C]	
		Capacity	EER	Capacity	COP	Capacity	EER	Capacity	COP	Capacity	EER	Capacity	COP
	60Hz - R22	MBtuh [kW]	Btuh/W [W/W]	MBtuh [kW]		MBtuh [kW]	Btuh/W [W/W]	MBtuh [kW]		MBtuh [kW]	Btuh/W [W/W]	MBtuh [kW]	
	50Hz - R407c	kW	W/W	kW		kW	W/W	kW		kW	W/W	kW	
GLW360	60Hz - R22	283 [82.94]	12.4 [3.6]	424 [124.27]	4.4	310 [90.86]	17.2 [5.0]	342 [100.23]	3.7	293 [85.87]	13.9 [4.1]	270 [79.13]	3.0
	50Hz - R407c	73.27	3.7	110.79	4.6	82.06	5.3	87.05	3.7	76.50	4.3	67.70	3.0

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

* Indoor = Load side heat exchanger; Outdoor = Source side heat exchanger.

Dimensional Data

Model		Overall Cabinet		
		W	D	H
360	in.	28.1	39.7	47.3
	cm.	71.3	100.8	120.2

Voltage Options

Model	Volts	Hz	Phase
360	208/230	60	3
	460	60	3
	575	60	3
	380/420	50	3


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