



50 HZ WATER-SOURCE HEAT PUMPS



GENESIS LARGE GL SERIES

GENESIS LARGE (GL) SERIES



The Genesis Large (GL) Series offers high efficiency and high capacity in a compact cabinet. The GL Series are ClimateMaster's largest capacity R-407C refrigerant water-to-air units.

Available in sizes 21.1 kW through 87.9 kW with multiple cabinet configurations, the GL Series offers a wide range of units for most any installation. The GL has an extended range refrigerant circuit, capable of ground loop (geothermal) applications as well as water loop (boiler-tower) applications. Standard features are many. Microprocessor controls, galvanized steel cabinet, epoxy powder coat paint (vertical units) and TXV refrigerant metering device are just some of the features of the flexible GL Series.

ClimateMaster's use of scroll compressors and belt-drive blowers help maximize vibration/sound attenuation. Options such as coated air coil, DDC controls, and stainless steel drain pans allow customized design solutions.

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

Dual compressor refrigeration circuit in all GL Series equipment except GLV80, 100 & 120



Condensate overflow is one of the 8 standard safeties provided by the microprocessor controls in all GL Series units



Optional insulated water/refrigerant circuits allow extended range operation (ground loop applications)



Belt drive blowers with high efficiency motors and multiple pulley adjustments



UNIT FEATURES

- Horizontal sizes 072 (21.1 kW), 096 (28.1 kW), 120 (35.2 kW)
- Vertical sizes 080 (23.4 kW), 100 (29.3 kW), 120 (35.2 kW), 160 (46.9 kW), 200 (58.6 kW), 240 (70.3 kW), 300 (87.9 kW)
- R-407C refrigerant
- Scroll compressors (reciprocating on GLH072)
- Dual refrigeration circuits (except GLV80, 100, 120)
- Galvanized steel construction with epoxy powder coat paint (vertical units)
- Insulated divider and separate compressor/air handler compartments
- TXV metering device
- 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
- Flush securely-mounted corner post water connections (no backup wrench required)
- Unit Performance Sentinel performance monitoring system
- Eight safeties standard

PERFORMANCE AND SPECIFICATIONS

AHRI/ISO/ASHRAE 13256-1 Data

Model	Refrigerant	Water Loop Heat Pump				Ground Water Heat Pump				Ground Loop Heat Pump			
		Cooling 30°C		Heating 20°C		Cooling 15°C		Heating 10°C		Cooling 25°		Heating 0°C	
		Capacity kW	EER W/W	Capacity kW	COP	Capacity kW	EER W/W	Capacity kW	COP	Capacity kW	EER W/W	Capacity kW	COP
GLH072	R-407C	16.50	4.0	18.78	4.6	19.00	5.8	15.26	4.2	17.40	4.5	11.75	4.2
GLH096	R-407C	23.61	4.1	26.97	4.5	25.68	5.6	22.42	4.0	24.29	4.5	17.74	4.0
GLH120	R-407C	29.24	3.7	34.58	4.5	31.52	5.2	27.95	3.9	29.99	4.2	21.99	3.9
GLV080	R-407C	16.62	4.0	21.95	4.9	17.86	5.3	17.59	4.3	17.11	4.5	13.90	4.3
GLV100	R-407C	23.14	3.8	27.85	4.6	25.51	5.1	22.84	4.0	24.03	4.3	18.26	4.0
GLV120	R-407C	25.18	3.5	31.58	4.2	26.21	4.4	25.70	3.8	25.49	3.8	20.87	3.8
GLV160	R-407C	33.23	4.0	43.91	4.9	35.71	5.3	35.19	4.3	34.22	4.5	27.79	4.3
GLV200	R-407C	46.28	3.8	55.71	4.6	51.02	5.1	45.68	4.0	48.07	4.3	36.52	4.0
GLV240	R-407C	50.37	3.5	63.16	4.2	52.43	4.4	51.39	3.8	50.98	3.8	41.73	3.8
GLV300	R-407C	62.87	3.4	78.31	3.9	65.79	4.3	64.76	3.4	64.27	3.7	51.07	3.4

Cooling capacities based upon 27°C DB, 19°C WB entering air temperature.
 Heating capacities based upon 20°C DB, 15°C WB entering air temperature.
 All ratings based upon operation at the lower voltage of dual voltage rated models.

Dimensional Data

Vertical Model		Overall Cabinet		
		W	D	H
080 - 120	cm	73.7	104.1	181.6
160 - 300	cm	73.7	208.3	181.6

Horizontal Model		Overall Cabinet		
		W	D	H
072 - 120	cm	92.2	183.6	54.9

Voltage Options

Vertical Model	Volts	Hz	Phase
080 - 300	380/420	50	3

Horizontal Model	Volts	Hz	Phase
072	380/420	50	3
096 - 120	380/420	50	3



7300 S.W. 44th Street
Oklahoma City, OK 73179
Phone: +1-405-745-6000
Fax: +1-405-745-6058
climatemaster.com

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