



50 Hz Water-Source Heat Pumps



GENESIS GR SERIES


CLIMATEMASTER[®]
Water-Source Heat Pump Systems

GENESIS HIGH EFFICIENCY (GR) SERIES



The Genesis High Efficiency (GR) Series offers high efficiency, quiet operation with advanced features and application flexibility at competitive prices. GR Series exceeds typical WSHP efficiencies, yet maintains small cabinet dimensions.

Available in models 006 through 060 with multiple vertical and horizontal cabinet options the GR Series offers a wide range of units for most any installation. The GR 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, polyester powder coat paint (vertical units) and TXV refrigerant metering device are just some of the features of the flexible GR series.

ClimateMaster's unique double isolation compressor mounting system provides quiet operation. Compressor is installed onto a heavy gauge mounting plate via vibration isolators, which is then isolated from the cabinet base pan by another set of rubber grommets for maximum vibration and sound attenuation. Options such as coated air coil, DDC controls, and factory-installed water solenoid valves allow customized design solutions.

The GR Series Water-Source Heat Pumps are designed to meet the challenges of today's HVAC demands with a low cost/high value solution.

Advanced digital controls with Remote Service Sentinel. Optional enhanced controls (DXM) & DDC Controllers



Easy to remove torsion-flex motor mounts for quiet operation and blower inlet ring for quick service



Insulated drain pan with condensate overflow protection (Optional stainless steel drain pan)



Double isolation compressor mounting



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Unit Features

- Models 006 (1.8 kW) through 060 (17.6 kW)
- R-407C Refrigerant
- Rotary, reciprocating, and scroll compressors
- Exceeds ASHRAE 90.1 efficiencies
- Galvanized steel construction with polyester powder coat paint (vertical units)
- Unique double isolation compressor mounting for quiet operation
- 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
- Field convertible discharge air arrangement for horizontal units
- Factory-mounted hanger brackets for horizontal units
- Internally trapped condensate drain line (vertical units only)
- Flush securely-mounted corner post water connections (no backup wrench required)
- Unit Performance Sentinel performance monitoring system
- Eight safeties standard
- Wide variety of options including coated air coils

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°C		Heating 0°C	
		Capacity kW	EER W/W	Capacity kW	COP W/W	Capacity kW	EER W/W	Capacity kW	COP W/W	Capacity kW	EER W/W	Capacity kW	COP W/W
GR-006	R-407C	1.50	3.3	1.80	3.9	1.80	5.3	1.50	3.4	1.60	3.9	1.20	3.0
GR-009	R-407C	2.10	4.0	2.40	4.2	2.50	6.3	2.00	3.8	2.20	4.7	1.60	3.3
GR-012	R-407C	2.50	3.1	3.40	3.7	3.10	4.8	2.80	3.4	2.70	3.6	2.20	3.0
GR-015	R-407C	3.90	4.6	3.80	4.7	4.50	6.8	3.10	4.2	4.10	5.3	2.60	3.7
GR-019	R-407C	4.90	3.3	6.10	4.0	5.90	4.8	4.80	3.6	5.30	3.8	3.60	3.1
GR-024	R-407C	5.70	3.4	7.00	4.0	6.80	5.0	5.70	3.7	6.10	3.9	4.40	3.3
GR-030	R-407C	6.40	3.3	7.90	4.2	7.40	4.9	6.40	3.7	6.80	3.8	5.10	3.2
GR-036	R-407C	8.00	3.3	10.60	4.0	9.30	4.6	8.70	3.7	8.50	3.7	6.80	3.3
GR-042	R-407C	9.90	3.7	11.30	4.4	12.20	5.8	9.50	4.0	10.80	4.4	7.50	3.6
GR-048	R-407C	1.14	3.6	14.30	4.1	13.10	5.2	11.40	3.7	12.00	4.1	8.40	3.4
GR-060	R-407C	13.70	3.4	16.80	4.3	15.90	5.2	13.80	3.8	14.50	4.0	11.20	3.3

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 air flow is rated on high speed

All ratings based upon operation at lower voltage of dual voltage rated units

Dimensional Data

Vertical Upflow Model	Overall Cabinet			Horizontal Model	Overall Cabinet				
	W	D	H		W	D	H		
009 - 012	cm	56.8	54.9	57.4	006 - 012	cm	56.8	109.5	28.7
015 - 024	cm	56.8	54.9	87.9	015 - 024	cm	56.8	109.5	43.9
030 - 036	cm	56.8	65.1	103.1	030 - 036	cm	56.8	135.1	49.0
042 - 048	cm	56.8	65.1	123.4	042 - 048	cm	56.8	158.0	49.0
060	cm	64.5	77.8	128.5	060	cm	64.5	180.8	54.1

Voltage Options

Model	Volts	Hz	Phase
006 - 024	220/240	50	1
030 - 036	220/240 380/420	50 50	1 3
042 - 060	380/420	50	3



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