



THE SMART SOLUTION FOR ENERGY EFFICIENCY

## GENESIS ULTRA (GS) SERIES 1.25 TO 6 TON HORIZONTAL AND VERTICAL UNITS



# ClimateMaster Water-Source Heat Pumps Genesis Ultra (GS) Series 1.25 to 6 Ton Horizontal and Vertical Units

## THE GENESIS ULTRA (GS) SERIES

The GS series offers ultra high efficiency with advanced features, extremely quiet operation and application flexibility at competitive prices. As ClimateMaster's highest efficiency R-22 refrigerant units, the GS series, exceeds ASHRAE 90.1 efficiencies.

Available in sizes 1-1/4 ton (4.4 kW) through 6 tons (21.1 kW) with multiple cabinet options (vertical upflow, vertical downflow and horizontal) the GS series offers a wide range of units for most any installation. The GS 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 and TXV refrigerant metering device are just some of the features of the flexible GS series.

ClimateMaster's exclusive double isolation compressor mounting system makes the GS series the quietest unit on the market. Compressors are mounted on vibration isolation springs to a heavy gauge mounting plate, which is then isolated from the cabinet base with rubber grommets for maximized vibration/sound attenuation. Options such as ClimaDry modulating reheat, e-coated air coil, DDC controls, internal pump and factory-installed water solenoid valves allow customized design solutions.

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

## UNIT FEATURES

- Sizes 015 (1-1/4 ton, 4.4 kW) through 070 (6 tons, 21.1 kW)
- Copeland scroll compressors (rotary on sizes 015 and 018)
- Exceeds ASHRAE 90.1 efficiencies
- Galvanized steel construction with epoxy powder coat paint
- Unique double isolation compressor mounting with vibration isolation springs for quiet operation
- Insulated divider and separate compressor/air handler compartments
- TXV metering device
- Extended range (20 to 120°F, -6.7 to 48.9°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 e-coated air coils and internal pumps

# The Smart Choice for Energy Efficiency



Double spring and grommet compressor isolation

Insulated Drain Pan with condensate overflow protection (Optional Stainless Steel Drain Pan)



Easy Service Access from multiple sides



Factory installed hanger brackets

Easy to remove torsion-flex motor mounts for quiet operation and blower inlet ring for quick service (Optional High-Static blowers)



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



## PERFORMANCE AND SPECIFICATIONS

### AHRI/ISO/ASHRAE 13256-1 Data (English (IP) Units & Metric (SI) Units)

Model	Voltage & Refrigerant	Water Loop Heat Pump				Ground Water Heat Pump				Ground Loop Heat Pump			
		Cooling 86°F [30°C]		Heating 68°F [20°C]		Cooling 59°F [15°C]		Heating 50°F [10°C]		Cooling 77°F [25°]		Heating 32°F [0°C]	
		Capacity	EER	Capacity	COP	Capacity	EER	Capacity	COP	Capacity	EER	Capacity	COP
		Btuh [kW]	Btuh/W [W/W]	Btuh [kW]		Btuh [kW]	Btuh/W [W/W]	Btuh [kW]		Btuh [kW]	Btuh/W [W/W]	Btuh [kW]	
60Hz - R22	50Hz - R22	kW	W/W	kW	kW	W/W	kW	kW	W/W	kW			
GSH/V015	60Hz - R22	14,100 [4.13]	16.0 [4.7]	16,300 [4.78]	5.3	15,600 [4.57]	23.9 [7.0]	12,900 [3.78]	4.1	14,900 [4.37]	18.5 [5.4]	11,200 [3.28]	3.8
	50Hz - R22	3.63	5.3	3.95	5.8	4.12	8.2	3.15	4.7	3.77	6.0	2.73	4.3
GSH/V018	60Hz - R22	17,100 [5.01]	14.8 [4.3]	20,900 [6.12]	5.0	19,000 [5.57]	22.7 [6.7]	16,000 [4.67]	4.1	18,300 [5.36]	16.7 [4.9]	13,200 [3.87]	3.6
	50Hz - R22	4.51	4.5	5.07	5.1	5.06	7.1	4.00	4.5	4.74	5.3	3.29	4.0
GSH/V024	60Hz - R22	24,200 [7.09]	14.9 [4.4]	31,000 [8.82]	4.8	26,500 [7.76]	21.2 [6.2]	23,500 [6.89]	4.0	26,000 [7.62]	17.1 [5.0]	19,200 [5.63]	3.6
	50Hz - R22	6.36	4.5	7.35	5.0	7.00	6.7	6.03	4.5	6.52	5.1	5.01	3.9
GSH/V030	60Hz - R22	28,900 [8.47]	15.1 [4.4]	35,000 [10.26]	4.8	31,100 [9.11]	21.4 [6.3]	27,200 [7.97]	4.0	30,700 [9.00]	16.9 [5.0]	22,200 [6.51]	3.6
	50Hz - R22	7.49	4.5	8.55	5.0	8.21	6.4	6.85	4.3	7.73	5.1	5.67	3.7
GSH/V036	60Hz - R22	33,800 [9.90]	14.9 [4.4]	40,400 [11.84]	4.6	36,000 [10.55]	20.7 [6.1]	32,900 [9.64]	4.0	35,800 [8.99]	16.4 [4.8]	26,700 [7.82]	3.4
	50Hz - R22	8.54	4.3	9.90	4.6	9.37	6.1	8.16	4.0	8.84	4.9	6.70	3.5
GSH/V042	60Hz - R22	41,000 [12.01]	14.5 [4.2]	49,800 [14.59]	4.8	45,400 [13.30]	20.3 [5.9]	39,000 [11.43]	4.0	43,300 [12.69]	16.0 [4.7]	32,700 [9.58]	3.7
	50Hz - R22	10.43	4.3	12.06	5.1	11.72	6.1	10.04	4.5	10.94	4.8	8.18	3.8
GSH/V048	60Hz - R22	45,800 [13.42]	14.6 [4.3]	54,100 [15.85]	4.9	49,000 [14.36]	19.9 [5.8]	43,300 [12.69]	4.0	48,900 [14.33]	16.4 [4.8]	36,900 [10.81]	3.7
	50Hz - R22	12.00	4.4	13.08	5.0	13.03	6.1	11.06	4.5	12.42	5.0	9.35	3.9
GSH/V060	60Hz - R22	56,800 [16.64]	13.4 [3.9]	74,900 [21.95]	4.7	59,600 [17.46]	17.7 [5.2]	58,900 [17.26]	3.6	59,400 [17.41]	14.6 [4.3]	48,700 [14.27]	3.8
	50Hz - R22	14.49	3.9	18.25	4.8	15.82	5.4	14.63	4.2	15.08	4.4	11.87	3.7
GSH/V070	60Hz - R22	63,700 [18.66]	12.4 [3.6]	78,300 [22.94]	4.5	70,000 [20.51]	16.8 [4.9]	62,900 [18.43]	3.8	67,100 [19.66]	13.4 [3.9]	53,400 [15.65]	3.6
	50Hz - R22	16.31	3.7	19.35	4.7	17.74	5.1	15.91	4.2	17.02	4.1	12.73	3.5

Cooling capacities based upon 80.6°F [27°C] DB, 66.2°F [19°C] WB entering air temperature.

Heating capacities based upon 68°F [20°C] DB, 59°F [15°C] WB entering air temperature.

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

### Dimensional Data

Vertical Upflow Model		Overall Cabinet			Horizontal Model		Overall Cabinet		
		W	D	H			W	D	H
015 - 018	in. cm.	22.4	25.6	40.6	015 - 018	in. cm.	22.4	53.2	19.3
		56.8	65.1	103.1			56.8	135.1	49.0
024 - 030	in. cm.	22.4	25.6	44.6	024 - 036	in. cm.	22.4	62.2	19.3
		56.8	65.1	113.3			56.8	158.0	49.0
036	in. cm.	22.4	25.6	48.6	042 - 048	in. cm.	25.4	71.2	21.3
		56.8	65.1	123.4			64.5	180.8	54.1
042 - 048	in. cm.	25.4	30.6	50.6	060	in. cm.	25.4	76.2	21.3
		64.5	77.8	128.5			64.5	193.5	54.1
060	in. cm.	25.4	30.6	54.6	070	in. cm.	25.4	81.2	21.3
		64.5	77.8	138.7			64.5	206.2	54.1
070	in. cm.	25.4	30.6	58.6					
		64.5	77.8	148.8					

Note: Add 4" [10.16cm] to height for vertical downflow models

### Voltage Options

Model	Volts	Hz	Phase	Model	Volts	Hz	Phase
015 - 018	208/230	60	1	042 - 070	208/230 460 575 380/420	60	1
	265	60	3				
	220/240	50	1				
024 - 036	208/230	60	1				
	265	60	3				
	208/230	60	3				
	460	60	3				
	220/240	50	1				
	380/420	50	3				



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