



THE SMART SOLUTION FOR ENERGY EFFICIENCY

## VERTICAL STACK (VHS) SERIES 0.75 TO 3 TON HI-RISE STACK UNITS



## ClimateMaster Water-Source Heat Pumps Vertical Stack (VHS) Series 0.75 to 3 Ton Hi-Rise Stack Units

### THE VERTICAL STACK (VHS) SERIES

The VHS series offers an innovative, labor-saving solution for spaces where individual, quiet control of the heating and cooling system is important. VHS units' pre-piped risers and pre-wired cabinets are especially ideal for multi-story buildings. Cabinets can operate as stand-alone "ductless" systems, or can be ducted to an adjacent room, making them convenient for low-rise buildings as well. The VHS series meets ASHRAE 90.1 efficiencies, yet maintains small cabinet dimensions.

Available in sizes 3/4 ton (2.6 kW) through 3 tons (10.6 kW) with numerous cabinet, water piping and control choices, the VHS series offers a wide range of units for most any installation. The VHS has an extended range refrigerant circuit with a TXV refrigerant metering device. Standard features are many. Microprocessor controls, galvanized steel cabinet, torsion-flex blower motor mounting, and e-coated air coil are just some of the features of the innovative VHS series.

ClimateMaster's exclusive double isolation compressor mounting system makes the VHS series the quietest vertical stack units 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 high static fan motor for ducted applications, DDC controls, internal pump and factory-installed water solenoid valves allow customized design solutions.

The VHS Series console water-source heat pumps are designed to meet the challenges of today's HVAC demands with a low cost/high value solution.

### UNIT FEATURES

- Sizes 010 (3/4 ton, 2.76 kW) through 036 (3 ton, 10.6 kW)
- R410A Refrigerant
- Efficient rotary and reciprocating compressors
- Meets ASHRAE 90.1 efficiencies
- Removable chassis allows staged installation and ease of maintenance
- Galvanized steel cabinet
- Unique double isolation compressor mounting for quiet operation
- TXV metering device
- Unit or remote-mounted controls available
- Microprocessor controls standard (optional DXM and/or DDC controls)
- LonWorks, BACnet, Modbus and Johnson N2 compatibility options for DDC controls
- Unit Performance Sentinel performance monitoring system (remote controls)
- Integrated drain pan with condensate overflow sensor
- Attractive return air panel with hinged access door ("G" panel)
- Multiple supply air discharge options
- Stainless steel braided hose kits for connection from piping risers to chassis
- Eight Safeties Standard
- Wide variety of options including disconnect switch and internal pumps



## The Smart Choice for Energy Efficiency



Torsion-flex blower motors



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



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



Stainless steel braided flexible hoses allow quick connection from the piping (risers) to the chassis and allow easy removal of the chassis



Removable chassis allows staged installation and ease of maintenance/service once installation is complete



New EarthPure® HFC-410A chassis available in the new TRM Series

## PERFORMANCE AND SPECIFICATIONS

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

Model	Voltage* & Refrigerant	Water Loop Heat Pump			
		Cooling 86°F [30°C]		Heating 68°F [20°C]	
		Capacity	EER	Capacity	COP
		Btuh [kW]	Btuh/W [W/W]	Btuh [kW]	
	60Hz - R22				
	50Hz - R22	kW	W/W	kW	
VHS010	60Hz - R22	8,500 [2.49]	11.6 [3.4]	11,500 [3.37]	4.2
VHS015	60Hz - R22	12,000 [3.52]	12.3 [3.6]	14,700 [4.31]	4.2
VHS020	60Hz - R22	18,500 [5.42]	12.0 [3.5]	23,600 [6.92]	4.2
VHS028	60Hz - R22	25,200 [7.38]	12.0 [3.5]	32,000 [9.38]	4.2
VHS030	60Hz - R22	28,100 [8.23]	12.5 [3.7]	36,000 [10.52]	4.2
VHS036	60Hz - R22	32,600 [9.55]	12.5 [3.7]	42,500 [12.45]	4.2

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.

\* Consult Factory for R407c / 50Hz models.

### Dimensional Data

Model		Overall Cabinet		
		W	D	H
10 - 15	in.	17.0	21.3	88.0
	cm.	43.2	54.1	223.5
20	in.	20.0	24.3	88.0
	cm.	50.8	61.7	223.5
28 - 36	in.	24.0	28.3	88.0
	cm.	61.0	71.9	223.5

### Voltage Options

Model	Volts	Hz	Phase
10 - 36	208/230	60	1
	265	60	1
	220/240	50	1

  
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