



The Whalen Company

# Whisperline® Two-Stage Vertical Stack

## VERTICAL STACK WATER SOURCE HEAT PUMP

Introducing the Whisperline® VD Series, the industry's first and only 2-stage vertical stack water source heat pump; a highly efficient unit and the ideal solution for high performance buildings. The VD Series includes a two-stage scroll compressor and an ECM Motor (electronically commutated) resulting in superior efficiency and comfort.

This series offers our customers best-in-class comfort, efficiency and low noise levels along with a wide range of available options. The Whisperline® VD incorporates a number of features and options that provide maximum comfort and performance to users and maximum flexibility to engineers and architects.

### WHISPERLINE® BENEFITS

**MARKET EXCLUSIVITY:** Industry's first and only 2-stage vertical stack water source heat pump.

**ENERGY EFFICIENT:** Best-in-class 2-stage efficiency provides year round savings.

**QUIET OPERATION:** Best-in-class sound levels and quiet operation. High efficiency ECM constant torque fan motor for low sound levels.

**EASE IN SERVICEABILITY:** Service friendly features for easy repair and installation.

**APPLICATION FLEXIBILITY:** Extensive features and options to meet virtually any jobsite requirement.

**CABINET DESIGN:** Low leakage galvanized steel cabinet. Lift-out stainless-steel drain pan.

**LOW VIBRATION:** Floating compressor design and cabinet isolation pad to minimize vibration transmission.

**SUPERIOR PROTECTION:** Solid state safety controls for superior protection.

**SUPPLY OPENING:** Left, right, front, back and top combinations. All supply openings are painted black to block the view into the unit and when one unit is used for two rooms, a sight baffle is placed between the two grilles.

**RISER COVER:** Galvanized steel protective cover is standard to avoid damage during shipping, handling and installation.

**SUPPLY/RETURN RISERS:** Provided to meet the requirements of the jobsite. Custom lengths and spacing can be provided to meet the exact floor to floor dimension of the project. Risers are factory installed and piped to ball valves within the cabinet.

**REFRIGERATION CHASSIS:** Removable-floating design with insulated compressor compartment and vibration isolation.

**WATER HOSES:** Connects chassis to the supply and return water piping. Isolates potential compressor vibration from the building piping system.

**INNER SERVICE PANEL:** Removable for access to the unit control wiring and internal piping.

**FILTER:** MERV-rated, throwaway or permanent. Filters from MERV 4 to MERV 13.

**DRAIN PAN:** Lift-out stainless steel pan with P-Trap covers the entire unit bottom and can be easily removed for cleaning.

**THERMOSTAT:** Low voltage; plug-in or remote mounted; manual or automatic changeover; all electronic/digital.

**ACOUSTICAL PANEL:** Flush mounted design with hinged door to allow easy filter removal without the use of tools.





## Whisperline® Two-Stage Vertical Stack Water Source Heat Pump Capacities

Component	VD-A-0804	VD-A-1004	VD-A-1204
<b>Nominal Tonnage</b>	<b>2</b>	<b>2.5</b>	<b>3</b>
<b>COOLING PERFORMANCE-100% Load</b>			
Capacity (MBTUH)	23.7	30.3	36.0
EER (Btuh/W)	16	15.8	16
Entering Water Temp (°F)	86	86	86
Water Flow (GPM)	8	9	10
Rated CFM 100% Load	850	1170	1250
Refrigerant type	R410A	R410A	R410A
<b>COOLING PERFORMANCE- 67% Load</b>			
Capacity (MBTUH)	18.7	22.7	26.6
EER (Btuh/W)	17.8	17.6	17.3
Entering Water Temp (°F)	86	86	86
Water Flow (GPM)	7	8	9
Rated CFM 67% Load	750	1000	1030
<b>HEATING PERFORMANCE - 100% Load</b>			
Capacity (MBTUH)	29.6	41.0	46.4
COP	5.6	5.7	5.7
Entering Water Temp (°F)	68	68	68
Water Flow (GPM)	8	9	10
<b>HEATING PERFORMANCE - 67% Load</b>			
Capacity (MBTUH)	22.6	29.5	32.6
COP	6.6	6.2	6.3
Entering Water Temp (°F)	68	68	68
Water Flow (GPM)	7	8	9
<b>DIMENSIONS (inches)</b>			
Width (in.)	25.6	25.6	25.6
Depth (in.)	25	25	25
Height (in.)	88	88	88
<b>OPERATING WEIGHT (lbs.)</b>			
Chassis	190	205	205
Cabinet	188	190	190
<b>SHIPPING WEIGHT (lbs.)</b>			
Chassis	194	209	209
Cabinet	186	194	194
<b>COMPRESSORS</b>			
Type 2 stages	Scroll	Scroll	Scroll
Quantity	1	1	1

