



VI Series Heat Pump Chassis - Version A

OEM Replacement Chassis for MD or 00 Units

- ◆ Cooling Only
- ◆ Low sound level
- ◆ Fast and easy replacement
- ◆ Damage Protection

... From the pioneer in vertical stack HVAC technology and innovation.



The Whalen Company



VI Series Chassis - Version A

The Whalen VI series Version A replacement chassis is designed for Whalen VI units produced between 1972 and 1979. Also known as "MD" or "OO", they are available in 300, 400, 600 and 800 CFM models. As part of a complete system, the Whalen VI Series Version A unit is engineered to fit into the existing cabinet space with matching electrical and water connections as the original unit.

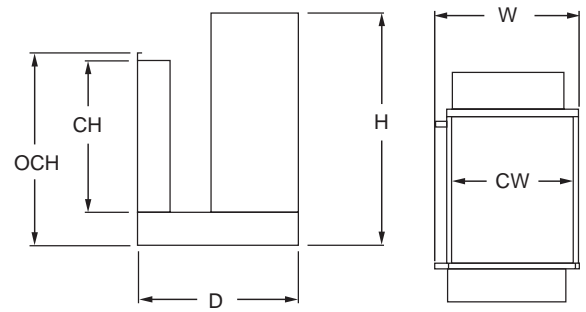
Each unit utilizes energy efficient quality components and is tested in our psychrometric room to confirm safety, reliability and performance at multiple operating conditions. The extensive list of unit features includes:

- Sizes ¾ ton through 2 tons
- Low pressure drop water coils
- Stainless steel drain pan
- Compressor protection
- Low temperature protection
- High pressure protection
- Environmentally friendly refrigerant
- ETL listed for safety and construction



Unit Dimensions

| Model | H | W | D | CW | CH | OCH | Packaging Dimensions w x h x d | Operating Weight/ Shipping Weight |
|-------|--------|------|------|------|------|------|-----------------------------------|--------------------------------------|
| | Inches | | | | | | | |
| 300 | 22.8 | 13.8 | 14.0 | 11.4 | 12.0 | 20.3 | 15 x 17 x 29 | 81 / 120 |
| 400 | 22.8 | 13.8 | 14.0 | 11.4 | 12.0 | 20.3 | 15 x 17 x 29 | 83 / 122 |
| 600 | 25.5 | 13.8 | 16.0 | 11.4 | 18.0 | 26.3 | 17 x 20 x 35 | 123 / 160 |
| 800 | 25.5 | 13.8 | 16.0 | 11.4 | 24.0 | 32.3 | 17 x 20 x 35 | 132 / 170 |



Right Side View

Front View

Continuous Operating Limits

| Mode | Ambient Air °F | | Entering Air °F | | | | Entering Water °F | |
|---------|----------------|-----|-----------------|----|-----|----|-------------------|-----|
| | Min | Max | Min | | Max | | Min | Max |
| | DB | DB | DB | WB | DB | WB | | |
| Cooling | 60 | 100 | 75 | 63 | 100 | 83 | 55 | 95 |
| Heating | 60 | 80 | 60 | - | 80 | - | 55 | 85 |

Benefits that Make a Big Difference

When you consider all of the features of these chassis, it's easy to see why they deliver so many benefits to contractors and users alike.

The Whalen VI series Version A is the only replacement chassis approved by the manufacturer to work with the existing blower section and control box wiring without modification. As an OEM replacement, each unit is built with project specific configurations as the original without the need to supply additional information.

Low Sound Level

The refrigeration chassis includes a compressor that incorporates engineered vibration isolators installed on a heavy gauge mounting base with a mounting system to maximize vibration dampening. A sound dampening enclosure constructed of heavy gauge metal lined with acoustical insulation encases the refrigeration circuit.

Fast and Easy Replacement

The refrigeration chassis consists of the compressor, air coil, water coil, reversing valve, expansion device, and safety controls designed for easy removal after disconnecting hoses and a polarized electrical power plug.

Damage Protection

Units are provided with high pressure and low temperature safety controls configured in a lockout circuit to prevent damage to the compressor. The compressors are wired with either internal or external overload protective devices.

Common Options Accessories*

- Heat Pump and Cooling Only Configurations
- Sizes ¾ ton through 2 tons
- Automatic flow Control Valve
- Fan/Motor/Blower Assemblies
- Return Air Panels
- Hose Kits
- Unit Power Voltage
- Unit Control Voltage

* varies by project

Warranty

All units are provided with a warranty for a period of 15-months from date of ship or 12-months from date of installation for all components.

Note: The replacement chassis performance is based on providing the proper airflow through the new chassis. Existing fan assemblies affect airflow due to corrosion and caked-on dirt. Fan motors affect airflow due to age or improper specifications. Cleaning/Repair/Replacement of blowers is required prior to installation of new chassis. New fan/motor assemblies allow your new replacement chassis to perform properly for years to come.

Performance Ratings

| Model | Nominal Tonnage | Rated CFM | Minimum CFM | GPM | Water Loop Heat Pump | | | | Refrigerant Control |
|-------|-----------------|-----------|-------------|-----|----------------------|--------------|---------------|-----|---------------------|
| | | | | | Cooling 86°F | | Heating 68°F | | |
| | | | | | Capacity Btuh | EER Btuh / W | Capacity Btuh | COP | |
| 300 | 0.75 | 300 | 220 | 2.5 | 10,000 | 9.0 | 13,500 | 3.2 | Capillary Tube |
| 400 | 1.00 | 400 | 280 | 3.3 | 12,500 | 8.2 | 16,000 | 3.0 | |
| 600 | 1.50 | 600 | 420 | 4.5 | 19,000 | 8.8 | 24,000 | 3.0 | |
| 800 | 2.00 | 800 | 580 | 6.0 | 23,500 | 10.0 | 26,500 | 3.0 | |

Cooling based upon 80°F DB, 67°F WB entering air temperature. Heating based upon 70°F DB, 59°F WB entering air temperature. 208V data shown. 265V ratings may vary.

Electrical Data

| Size (Tons) | Compressor Type | Voltage Volt-Hz-Ph | Voltage Limitations | | Compressor | | Total Amps | Minimum Circuit Ampacity | MOPD |
|-------------|-----------------|--------------------|---------------------|-----|------------|------|----------------------------|--------------------------|------|
| | | | Min | Max | RLA | LRA | | | |
| 300 (0.75) | Reciprocating | 208-230/60/1 | 198 | 253 | 4.2 | 31.2 | See Calculation Note Below | | |
| | | 265/60/1 | 239 | 292 | 3.8 | 26.3 | | | |
| 400 (1.0) | Reciprocating | 208-230/60/1 | 198 | 253 | 5.4 | 31.2 | | | |
| | | 265/60/1 | 239 | 292 | 4.6 | 27.0 | | | |
| 600 (1.5) | Reciprocating | 208-230/60/1 | 198 | 253 | 9.0 | 48.0 | | | |
| | | 265/60/1 | 239 | 292 | 7.7 | 44.0 | | | |
| 800 (2.0) | Reciprocating | 208-230/60/1 | 198 | 253 | 12.2 | 61.0 | | | |
| | | 265/60/1 | 239 | 292 | 9.0 | 58.0 | | | |

Note: Chassis Only - Does not include Fan/Motor or Electric Heat loads. Use this value with cabinet loads to calculate minimum power supply circuit ampacity (Clause 37.14 of UL1995 4th Ed) and maximum current rating of overcurrent protection (Clause 37.15 of UL 1995 4th Ed).



Whalen equipment has been specified in hundreds of projects in these and other categories:

- Hotels
- Apartments
- Condominiums
- Senior Living Facilities
- Dormitories
- Offices



Behind every unit that carries the Whalen name is a singularity of purpose: the engineering and manufacturing of products that improve the quality of life for our customers.

Our long-term commitment to this endeavor assures you of systems that are distinctive in **concept, performance, reliability** and **value**.

The number of industry “firsts” from Whalen is impressive.

They include:

- The industry’s first vertical stack valveless fan coils that do not use valves
- The first vertical stack heat pump offering
- The first removable chassis closet-type heat pumps
- The first AHRI-listed water-cooled air conditioning units with hydronic heat

Let us put Whalen innovation to work for you, too. Find out how our approach to your project will deliver a “perfect fit” solution – and make your life easier.

Take the Next Step

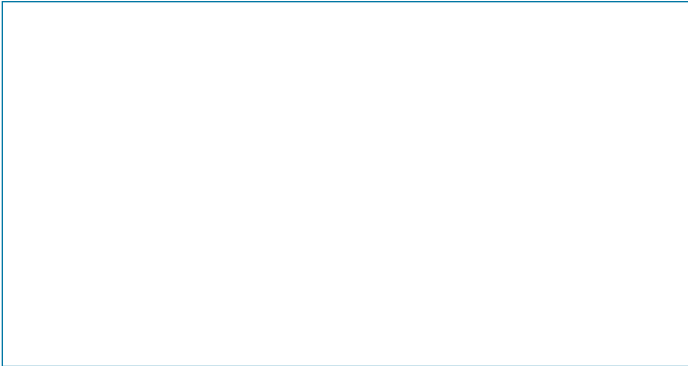
To learn more about how The Whalen Company can help you save time and money on your next project, contact your local Whalen representative, call **410-822-9200** to speak with one of our specialists, or e-mail your request to sales@whalencompany.com.

Additional technical resources, including dimensional drawings and Revit models, are available on our website at www.whalencompany.com.

Our Mission:

*Flexible, Comfort Solutions Provided With Pride
From Our Family to You*

Your Whalen Representative:



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