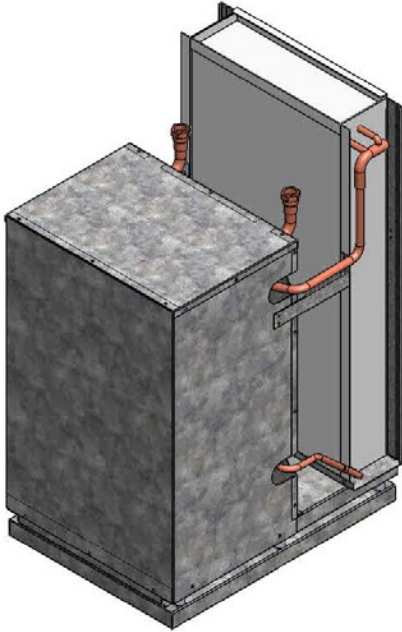


Omega VI Series are a direct replacement for Whalen model VI-A chassis. The Omega VI chassis features state of the art components, environmental friendly R410a refrigerant, dimension and that match the original Whalen VI-A chassis. The 6 pin connector matches existing connects which provides the contractor with a simple “drop-in” replacement unit.



STANDARD FEATURES

- Omega VI unit is a modern heat pump. Each unit comes with R410A refrigerant and is fully factory tested before shipment. Omega is pleased to offer a 1 year parts warranty and an optional 5 year compressor warranty on all units, from time of shipment.
- Each Omega VI unit also comes standard with low pressure and high pressure sensors factory installed to a lock out relay. The lock out relay continuously monitors the pressure sensors to make sure the unit operates safely and will take the unit off line in case of malfunction or dangerous operation.
- The chassis comes standard with a low pressure bypass start timer. The bypass timer keeps the unit on line during difficult start-ups to avoid nuisance low pressure faults during the first three minutes of compressor operation.
- Built-in “Secondary Vibration Absorption Base” isolates the movement of the chassis from the fan cabinet for a more quiet operation.
- Quiet, high efficiency R410A compressors are used for all units. Units up to 2 Ton use a rotary compressor. Units above 2 Tons utilize scroll compressors. All compressors come with overload protection.
- Thermal Expansion Valve (TEV) for refrigerant metering is used on all units to ensure accurate refrigerant flow through the unit.
- Casing is manufactured from heavy gauge galvanized steel.

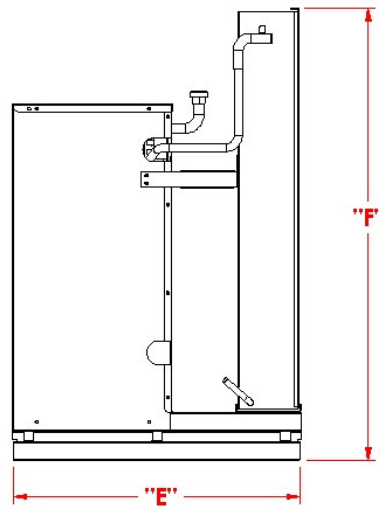
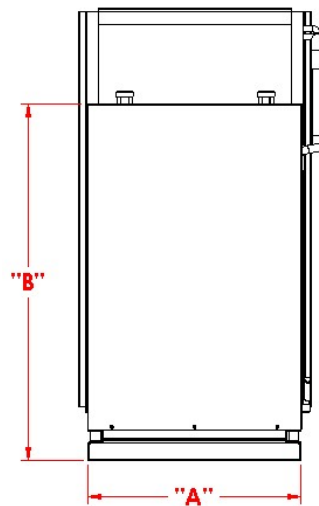
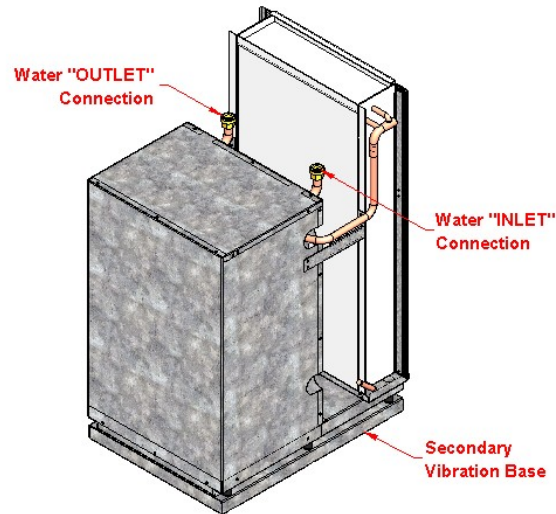
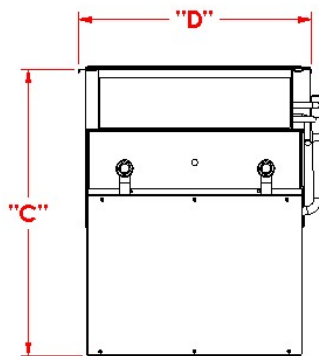
EASY INSTALLATION

Installations are made easy by simply removing the existing unit and replacing it with a new Omega VI Unit. This allows for minimal installation time for contractors.

- Dimensionally the units are identical to existing units. Supply and return connections are designed to line up with the existing water connections.
- Chassis is compatible with most Heat Pump Thermostats and the reversing valve energizes in cooling mode (fail to heat mode).
- Consult the factory or your local sales representative for other VI models equipped with a control board in their fan controls section.
- A water flow rate of 3 GPM per ton and an air flow of at least 400 CFM is required for the unit to operate properly without fault. Installing contractor should verify water flow rate and air flow before installing the unit.

Dimensional Data

MODEL	CAPACITY	A	B	C	D	E	F	Outlet	Inlet
	Nominal Tonnage								
HRP-WH-030	3/4	11 1/8	21 1/4	15	12 3/8	15	22	1/2 HA	1/2 HA
HRP-WH-040	1	11 1/8	21 1/4	15	12 3/8	15	24	1/2 HA	1/2 HA
HRP-WH-060	1 1/2	13 3/16	23 3/8	18	14 1/2	17 7/8	28 1/8	1/2 HA	1/2 HA
HRP-WH-080	2	13 3/16	24 1/8	18	14 3/8	18	28 1/8	1/2 HA	1/2 HA
HRP-WH-100	2 1/2	13 3/16	24 1/8	18	14 3/8	18	28 1/8	1/2 HA	1/2 HA



Performance Data

MODEL	REFRIG	WATER FLOW	AIR FLOW	WATER DROP	COOLING				HEATING		
					GPM	CFM	BTUH	WATT	COP	EER	BTUH
HRP-WH-030	R410	3.00	310	6'	9873	796	3.63	12.60	14100	944	4.37
HRP-WH-040	R410	3.13	475	7'	13010	1000	3.81	13.26	16600	1114	4.37
HRP-WH-060	R410	4.60	600	14'	17600	1455	3.59	12.10	22600	1577	4.20
HRP-WH-080	R410	6.72	817	15'	23952	1766	3.98	13.56	30415	1964	4.54
HRP-WH-100	R410	6.50	1006	15'	28326	2314	3.59	12.24	36501	2505	4.27

Due to a continuous improvement, Dimensions and Performance Data are subject to change without notice, check website for the most up-to-date information.

Wiring Schematic

ITEM	DESCRIPTION
CMP	Compressor
CR	Contractor Relay
HP	High Pressure Switch
LP	Low Pressure Switch
LR	Lock Out Relay
OLP	Thermal Overload Switch
RV	Reversing Valve

WHALEN SERIES VI - TYPE A WIRING SCHEMATIC

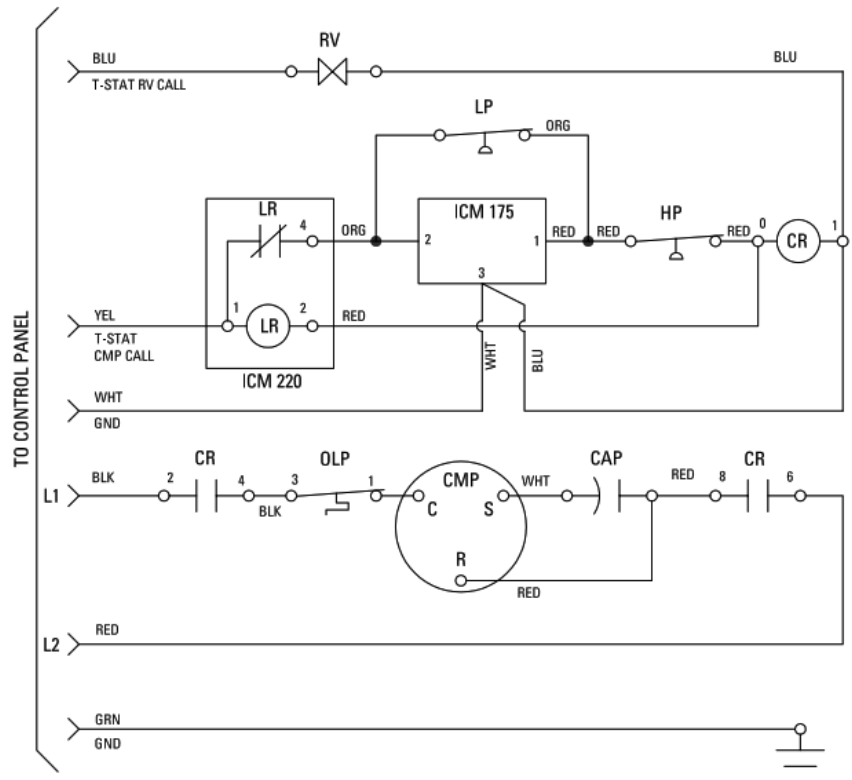
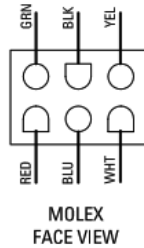


ICM 175 Bypass timer

Set to 3 mins (180 Seconds)

When the compressor starts the bypass timer will bypass to the Low pressure switch to avoid nuisance trips during the first 3 minutes of compressor operation. After the 3 minutes if the Low pressure switch trips the unit will turn off.

If there is no gas in the system the bypass timer provides the 3 minute time delay and the compressor will start. After 3 minutes bypass timer expires It will trip on LP fault.



Thermostat

1 HEAT - 1 COOL Heat Pump Thermostat with compressor protection time delay is required. We recommend setting the time delay to 6 minutes. The Reversing Valve is energized in cooling mode. Some thermostats might need to be programmed to this setting