



WATER SOURCE AIR CONDITIONER/ HEAT PUMP

Vertical Stacked Chassis- Replaces Whalen 'VI' Series

NOMINAL CAPACITY:

10,000, 13,000, 20,000,
24,000 BTU/h

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Description:

Adirondack-Aire 'VI' series is a direct replacement* for *Whalen 'VI' series* vertical stacked water source cooling/ heat pump **chassis**. Original VI 'A' units were heat pumps, VI 'B' units were straight cooling. The chassis is a part of a complete system, which consists of the chassis, blower section, control box, and furred-in room cabinet with risers. The chassis contains the compressor, air heat exchanger, water heat exchanger, and refrigeration system control and safety components. The 'VI' series has **three chassis sizes**, small (models 300 & 400), mid (model 600), and large (model 800). All chassis sizes are **dimensionally identical** to the original for a fast, easy, and trouble free installation. Proven technology, quality components, careful design and testing, and the latest in reliability and efficiency advances assure long life, user satisfaction, and lower energy cost! Consider the extensive list of standard features which includes: **powder painted drain pan**, refrigerant circuit **access ports**, **thermostatic expansion valve**, evaporator **freeze protection**, water coil **freezestat**, **high-pressure** over protection, and **lockout circuit.....** and *Adirondack-Aire* is the replacement solution the competition can't match. *Cold Point Corp.* backs the 'VI' with a customer friendly **one-year parts and labor warranty** and **five-year compressor warranty**, (see *Warranty* document for details).

Application & Benefits:

The *Adirondack-Aire 'VI' series* replacement chassis **fits the existing Whalen room cabinets** and works with the existing **blower section** and **control box** without modification*. The chassis installs without the need for **water loop shut-down** or **draining**. Water, drain and electrical connections **line right up** to the original installation. The electrical connectors plug into the control box **without the need for adapters** or wire nut connections. The standard high-pressure switch and evaporator coil freeze protection stops unit operation **before damage occurs** should airflow become reduced or obstructed due to dirty coils, obstructed airflow, or motor failures or lock-up. A freezestat protects the water coil from **freeze damage** due to water temperature or flow problems. The water coil is designed for low water-side pressure drop eliminating potential **pump sizing** and **water flow** problems. High efficiency compressors provide demonstrated **reliability** and **low sound** levels and cut **energy costs**...and because the chassis dimensions and construction details are like the original, replacement work is **fast and easy**. Using *Adirondack-Aire* replacements **eliminates** the need for **room renovation, redecorating, and piping changes** and is *the solution* that gets your property back in service quickly and at the **lowest total cost**. Choose the optional replacement blower section to **improve airflow** and replacement return air panel to give the unit a **new look** and improve **room aesthetics**.

***Various wiring configurations were produced. Details required before placing orders.**

Options/Accessories:

- Blower sections
- Return air panels
- Control options
- 115V, 265V/277V (availability varies by model sizes)
- Wiring Configurations
- Flow control valve
- Hose kits

Standard Features

- 1). Made in USA
- 2). Designed for easy installation & compatibility. Dimensionally identical to original *Whalen chassis*
- 3). UL listed components and construction
- 4). Quiet, durable, and efficient compressor with built-in pressure & temperature protection
- 5). Heavy Gauge G90 galvanized steel construction
- 6). Powder painted drain pan
- 7). High efficiency copper tube-aluminum fin evaporator coil
- 8). High efficiency coaxial condenser coil with low water-side pressure drop
- 9). Lock-out circuit with reset at thermostat or circuit breaker (heat pump only)
- 10). High Pressure switch
- 11). Frost free cooling
- 12). Water coil freeze protection
- 13). Refrigerant circuit access ports
- 14). Bi-flow thermostatic expansion valve
- 15). Positive shift reversing valve
- 16). Precision charged with R-22 refrigerant
- 17). 1/2" Hose adapter water connections



VI Dimensions and Specifications

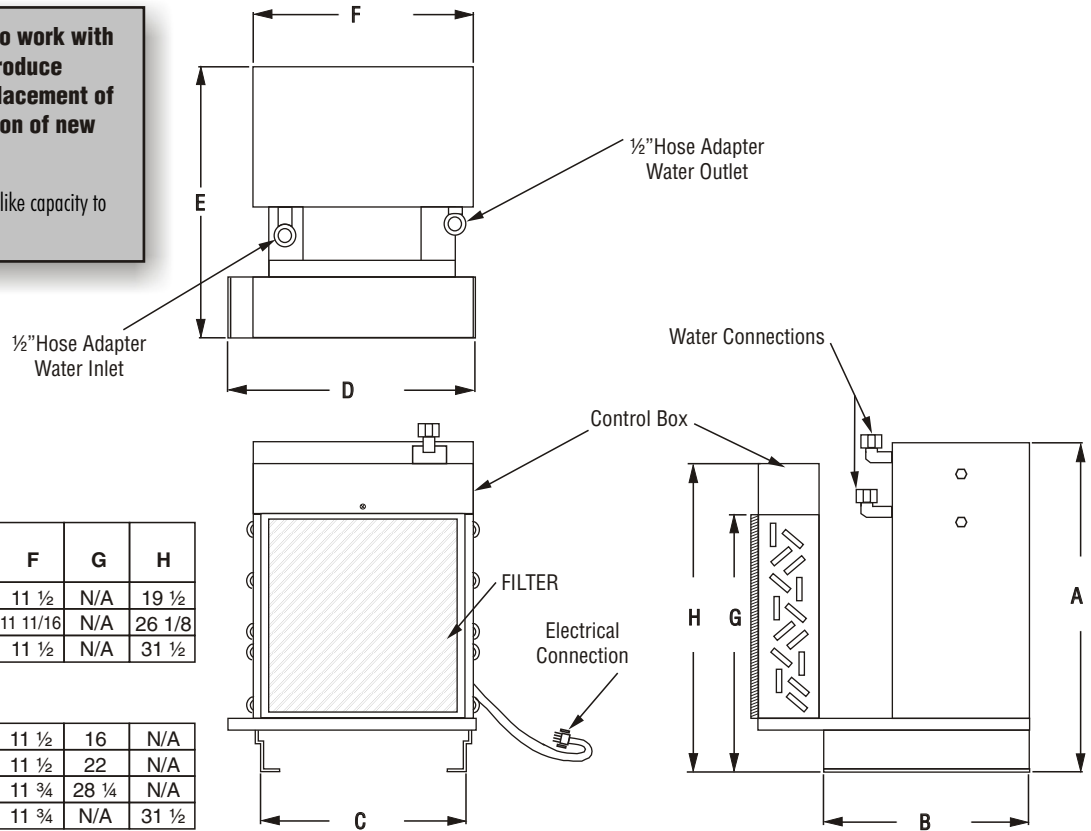
Note: Due to Cold Point Corporation's ongoing quality & product development programs, design and specifications may change. Always consult factory to verify the information provided here.

DIMENSIONAL DETAIL 'VI'

MAY VARY! Various physical and wiring configurations were produced. Details required before placing orders.

***Note:** These chassis are designed to work with the existing blower. Blowers must produce rated airflow. Cleaning/ Repair/ Replacement of blowers is required prior to installation of new chassis.

IMPORTANT! Chassis must replace a unit of like capacity to assure proper **airflow** and **power supply**.



S/C

Model No.	A	B	C	D	E	F	G	H
10,13	22	11	11	13 1/2	14	11 1/2	N/A	19 1/2
20	24 7/8	11	11 1/2	12 1/2	16	11 11/16	N/A	26 1/8
24	26	11	11 1/2	12 1/2	16	11 1/2	N/A	31 1/2

H/P

10	22	11	11	13 1/2	14	11 1/2	16	N/A
13	22	11	11	13 1/2	14	11 1/2	22	N/A
18	27 3/4	11	11 1/2	13 3/4	16	11 3/4	28 1/4	N/A
24	24 3/4	11	11 1/2	13 3/4	16	11 3/4	N/A	31 1/2

VI PERFORMANCE TABLE*

Model	COMP	COOL BTUH	SENS BTUH	EER**	HEAT BTUH	COP**	CFM (design)	GPM	COIL PD
VIA-10- HP	Recip.	10,800	7,600	10.9	12,800	3.3	300	2.4	3.2'
VIA-10- HP	Rotary	9,800	7,200	13.2	11,800	4.0	300	2.3	4.5'
VIB-10- SC	Recip.	10,900	7,700	11.0			300	2.4	3.2'
VIB-10- SC	Rotary	9,900	7,300	13.3			300	2.3	4.2'
VIA-13- HP	Recip.	12,800	9,200	10.3	15,500	3.3	400	3.1	5.4'
VIA-13- HP	Rotary	13,300	9,900	13.2	14,800	4.1	400	3.2	1.8'
VIB-13- SC	Recip.	12,500	9,100	10.2			400	3.0	5.3'
VIB-13- SC	Rotary	12,600	9,200	12.8			400	3.2	1.7'
VIA-20- HP	Rotary	19,200	14,300	11.8	22,600	4.2	600	4.8	13.2'
VIB-20- SC	Rotary	19,500	14,400	11.9			600	4.8	12.3'
VIA-24- HP	Recip.	24,200	18,100	10.7	29,000	3.9	800	6.0	5.8'
VIB-24- SC	Recip.	24,800	18,300	10.9			800	6.0	5.4'

*Rated in Accordance with ASI standards.
208V Ratings Shown

**Includes ARI Fan Power (0.365 W/ CFM)

VI ELECTRICAL DATA

Model	COMP	Voltage/ HZ/Ph	Comp RLA	Comp LRA	MIN. Volts
VIA,B- 10	Recip.	208/230/60/1	4.8	31.0	197
	Recip.	265/60/1	3.8	26.3	239
VIA,B- 10	Rotary	208/230/60/1	3.7	21.0	197
	Rotary	265/60/1	3.1	15.0	239
VIA,B- 13	Recip.	208/230/60/1	5.5	31.2	197
	Recip.	265/60/1	4.8	27.0	239
VIA,B- 13	Rotary	208/230/60/1	5.0	24.0	197
	Rotary	265/60/1	4.2	20.0	239
VIA,B- 20	Rotary	208/230/60/1	7.5	42.0	197
	Rotary	265/60/1	8.2	6.6	239
VIA,B- 24	Recip.	208/230/60/1	12.4	9.6	197
	Recip.	265/60/1	11.5	8.2	239

Model No.	Chassis Weight (lbs)
10	75
13	75
20	120
24	130

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