

# R-410A Vector Compact®

## 18K & 27K BTU/hr Self-Contained Systems



VCD27K-HV-410A

**The Vector Compact series of self-contained marine air conditioners offers 18K and 27K BTU/hr of cooling and heating.**

These high-capacity units were engineered to harness and maximize the impressive performance of environmentally safe R-410A refrigerant. Used in the HVAC industry for more than 10 years, R-410A refrigerant is proven and reliable, and complies with all EPA standards and is accepted worldwide.

All models offer direct expansion operation in a compact, low-profile unit, with a seawater-cooled condenser and choice of controls. Vector Compact units are designed for installation under a settee or berth, in a locker or cabinet, or other convenient location.

Vector Compact systems feature high-velocity (HV) blowers. All blowers are insulated to prevent secondary condensation, and are fully rotatable for flexibility during installation.

### Key Benefits

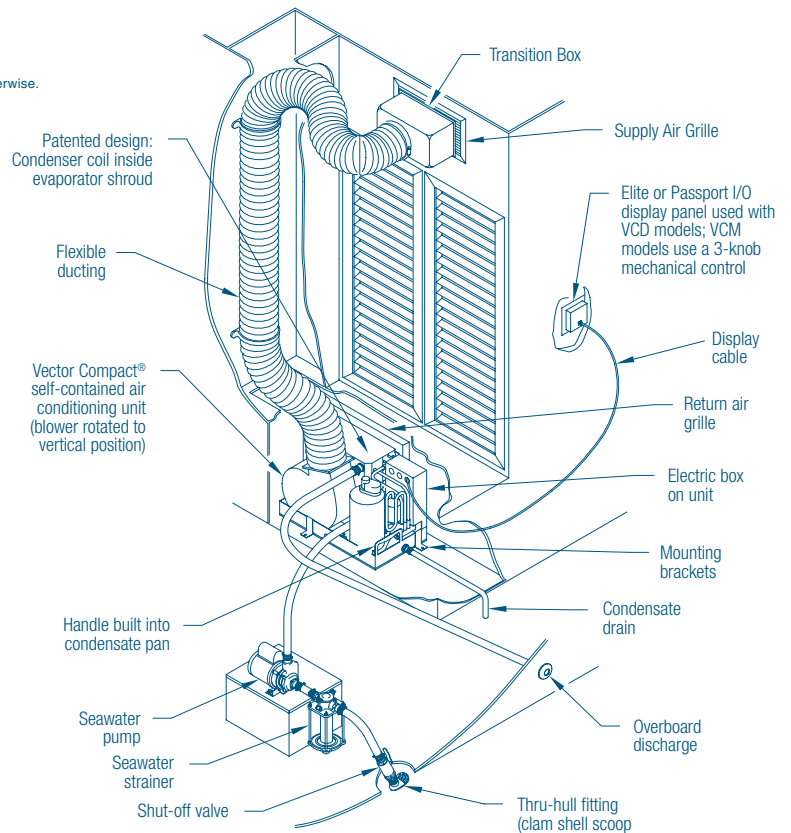
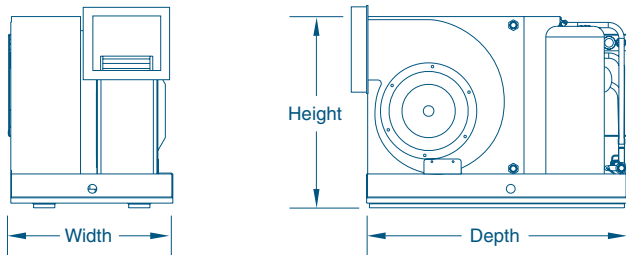
- Compact design reduces unit size by up to 25% of the original Vector Rotary's size.
- High-velocity, fully-insulated blowers.
- Fully rotatable blowers.
- Patented design increases cooling capacity and dehumidification.
- Unique compressor and reversing valve mounting reduces vibration.
- Electrical box installed on unit within footprint dimensions eliminates additional installation labor and space requirements.
- High-efficiency rotary (18K) and scroll (27K) compressors are quiet and more reliable.
- Condenser coil's cupronickel-encased copper shell provides maximum heat transfer and high corrosion resistance.
- Evaporator coil employs an enhanced fin design and rifled copper tubing to provide maximum capacity.

# Technical Specifications for R-410A Vector Compact®

Model <sup>(1)</sup>	VCD18K/1-HV-410A			VCD27K-HV-410A	
Capacity BTU/hr <sup>(2)</sup>	18,000			27,000	
Voltage (VAC)	115	208-230	220-240	208-230	220-240
Cycle (Hz)/Phase (Ph) <sup>(3)</sup>	60/1	60/1	50/1	60/1	50/1
Full Load Amps (FLA) Cool	11.1	6.1	5.5	7.9	9.0
Full Load Amps (FLA) Heat	15.1	8.0	6.8	11.1	12.6
Locked Rotor Amps (Comp)	66.0	32.0	26.0	58.3	61.0
Kilo-Volt-Amps (KVA)	1.8	1.9	1.6	2.6	3.1
Max. Circuit Breaker (Amps)	45.0	20.0	20.0	45.0	45.0
Min. Circuit Ampacity (Amps)	27.0	12.0	12.0	27.0	26.0
R-410A Refrigerant (oz/kg)	17.0/0.482			23.5/667.0	23.0/652.0
Height – Evaporator (in/mm)	14.00/356			18.00/457	
Height – Blower (in/mm) <sup>(4)</sup>	15.50/394			19.25/489	
Width (in/mm)	12.00/305			15.25/387	
Depth (in/mm)	21.00/533			24.75/629	
Motor Overhang (in/mm)	1.00/25 <sup>(5)</sup>			N/A	
Min. Duct Size Ø (in/mm)	7.00/178			8.00/203	
Min. Supply Grille (in <sup>2</sup> /cm <sup>2</sup> )	100.00/645			140.00/903	
Min. Return Grille (in <sup>2</sup> /cm <sup>2</sup> )	200.00/1290			240.00/1548	
Net Weight (lbs/kg)	63.8/28.9			120.0/54.4	
Gross Weight (lbs/kg)	73.0/33.1			130.0/58.9	

**Notes:**

- <sup>(1)</sup> VCD indicates Elite or Passport I/O climate controls; VCM indicates mechanical controls.
- <sup>(2)</sup> BTU and electrical data are based on a 45°F/7.2°C evaporator and 100°F/37.8°C condenser in cool mode, and a 45°F/7.2°C evaporator and 130°F/54.4°C condenser in heat.
- <sup>(3)</sup> 60Hz units must not operate at 50Hz and 50Hz units must not operate at 60Hz unless data plate states otherwise.
- <sup>(4)</sup> Height with blower in the horizontal position. Overall height can be reduced by rotating blower downward.
- <sup>(5)</sup> Motor is inside blower on HV units. However, allow 1.00"/25mm for blower ring flange on that side.



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Environmentally Responsible

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