Vector Compact Series Boat Air Conditioning

High-Capacity Air Conditioning In a Compact Package

The Vector Compact series of self-contained marine air conditioners offers 18,000 and 27,000, and 30,000 BTU/hr of reverse-cycle 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 is proven and reliable, 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. A painted galvanized metal chassis is standard on 18K and 27K models; a stainless-steel chassis upgrade is available for enhanced durability.

The SVCD30 features dual evaporator coils and a single compressor on a compact stainless-steel chassis. The dual high-velocity (HV) blowers can be ducted to two or more interior spaces.

Key Benefits

- Compact design reduces unit size by up to 25% of the original Vector Rotary's size.
- High-velocity (HV) fully-insulated blowers are rotatable.
- Blowers are rotatable and fully insulated.
- Patented design increases cooling capacity and dehumidification.
- Engineered to maximize the performance of R-410A, an environmentally safe refrigerant.
- Unique compressor and reversing valve mounting reduces vibration.
- Electrical box is installed within unit footprint on 18K and 27K models; remotely mounted for 30K models.
- High-efficiency rotary and scroll compressors are quiet and more reliable.
- Condenser coil's cupronickel-encased copper condenser coil provides maximum heat transfer and high resistance to corrosion.
- Evaporator coil employs an enhanced fin design and rifled copper tubing to provide maximum capacity.
- 27K and 30K models available in 3-phase power on a special order basis.
### Specifications for Vector Compact Series Boat Air Conditioning

#### Model (1) | VCD18 | VCD27 | SVCD30
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Capacity (BTU/h) (2) | 18000 | 27000 | 30000
Voltage (V) | 115 | 230 | 220 | 230 | 220 | 230
Phase (Ph) | 60/1 | 50/1 | 60/1 | 50/1 | 50/1 | 50/1
Cycle (Hz) | / | / | / | / | / | /
Full Load Amps (FLA) Cool (A) | 11.1 | 6.4 | 5.7 | 8 | 9.1 | 9.7 | 4.96
Full Load Amps (FLA) Heat (A) | 15.1 | 8.3 | 7 | 11.2 | 12.7 | 12.8 | 5.96
Full Load Amps (FLA) Blower (A) | 1.9 | 1.15 | 1.64 | 1.76 | 1.56 |
Locked Rotor Amps (LRA) (A) | 66 | 32 | 26 | 58.3 | 61 | 53 | 38
Max. Circuit Breaker (A) | 45 | 20 | 45 | 35 | 15 |
Min. Circuit Ampacity (A) | 27 | 13 | 27 | 21 | 10 |
Refrigerant Type | 410A | 410A | 410A |
Height-Coil (in/mm) | 14/356 | 18/458 | N/A | N/A |
Height-Blower (in/mm) | 15.5/394 | 19.25/489 | N/A | N/A |
Height-Compressor (in/mm) | N/A | N/A | 16/407 |
Width (in/mm) | 21/534 | 24.75/629 | 25/635 |
Depth (in/mm) | 12/305 | 15.25/388 | 23/585 |
Min. Supply Duct Size (in/mm) | 7/178 | 8/204 | 5/127 |
Min. Supply Air Grille Size (sq in/sq cm) | 100/646 | 140/904 | 150/968 |
Min. Return Air Grille Size (sq in/sq cm) | 200/1291 | 240/1549 | 250/1613 |
Seawater Connection (in/mm) | 5/8 | 5/8 | 5/8 |
Net Weight (lbs/kg) | 64/29.1 | 120/54.5 | 130/58.1 | TBD |
Gross Weight (lbs/kg) | 73/33.2 | 130/58.1 | 140/63.6 | TBD |

1. "SVC" indicates stainless-steel chassis, "VC" indicates painted galvanized metal chassis. 'D' in the model number indicates a digital control. Replace with 'M' for units with mechanical control. Add a 'Z' or 'Z50' after the capacity designator for 230V/60Hz or 220V/50Hz units, respectively. Examples: VCD18K = 115V/50Hz; VCD18Kz = 230V/60Hz; VCD18KZ50 = 220V/50Hz.
2. 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 mode.
3. 60Hz units must not operate at 50Hz and 50Hz units must not operate at 60Hz unless data plate states otherwise.
4. All dimensions ± 0.30 in. (8 mm).
5. All weights ± 10%.

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### Dimensions

**SINGLE-BLOWER 18,000 & 27,000 BTU/HR MODELS**

**DUAL-BLOWER 30,000 BTU/HR MODEL**

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**Specifications and availability subject to change without notice.**