

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.



SVCD30 dual-blower unit
with stainless-steel chassis

Key Benefits

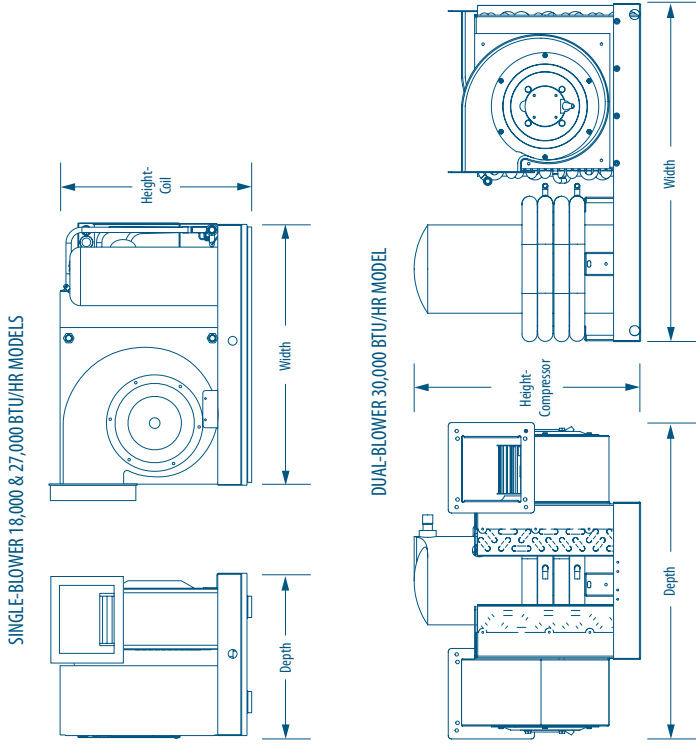
- Compact design reduces unit size by up to 25% of the original Vector Rotary's size.
- High-velocity (HV) fully-insulated blowers are rotatable.
- Blowers are rotatable and fully insulated.
- Patented design increases cooling capacity and dehumidification.
- Engineered to maximize the performance of 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⁾	VXD18	VXD27	VXD30	VXD38
Capacity (BTU/h) ⁽²⁾	18000	27000	30000	38000
Voltage (V)	115	230	230	230
Cycle (Hz) ⁽³⁾ / Phase (Ph)	60/1	60/1	50/1	50/1
Full Load Amps (FLA) Cool (A)	11.1	6.4	5.7	9.1
Full Load Amps (FLA) Heat (A)	15.1	8.3	7	12.8
Full Load Amps (FLA) Blower (A)	1.93	1.15	1.15	1.76
Locked Rotor Amps (LRA) (A)	66	32	26	61
Max. Circuit Ampacity (A)	45	20	45	35
Min. Circuit Ampacity (A)	27	13	27	21
Refrigerant Type	410A	410A	410A	410A
Height-Coil (in/mm) ⁽⁴⁾	14/356	18/458	N/A	N/A
Height-Blower (in/mm) ⁽⁴⁾	15.5/394	19.25/489	N/A	N/A
Height-Compressor (in/mm) ⁽⁴⁾	N/A	N/A	16/407	N/A
Width (in/mm) ⁽⁴⁾	21/534	24.75/629	25/635	25/635
Depth (in/mm) ⁽⁴⁾	12/305	15.25/388	23/585	23/585
Min. Supply Duct Size (in/mm)	7/178	8/204	5/127	5/127
Min. Supply Air Cells Size (sq in/sq cm)	100/646	140/904	150/968	150/968
Min. Return Air Cells Size (sq in/sq cm)	200/1291	240/1549	250/1613	250/1613
Seawater Connection (in/mm)	3/16	3/16	3/16	3/16
Net Weight (lbs/kg) ⁽⁵⁾	64/29.1	120/54.5	130/58.1	TBD
Gross Weight (lbs/kg) ⁽⁵⁾	73/33.2	130/58.1	140/63.6	TBD

¹ '5VC' indicates stainless-steel chassis; 'YC' 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 +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%.

Dimensions



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Specifications and availability subject to change without notice.

Dealer

