

# 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

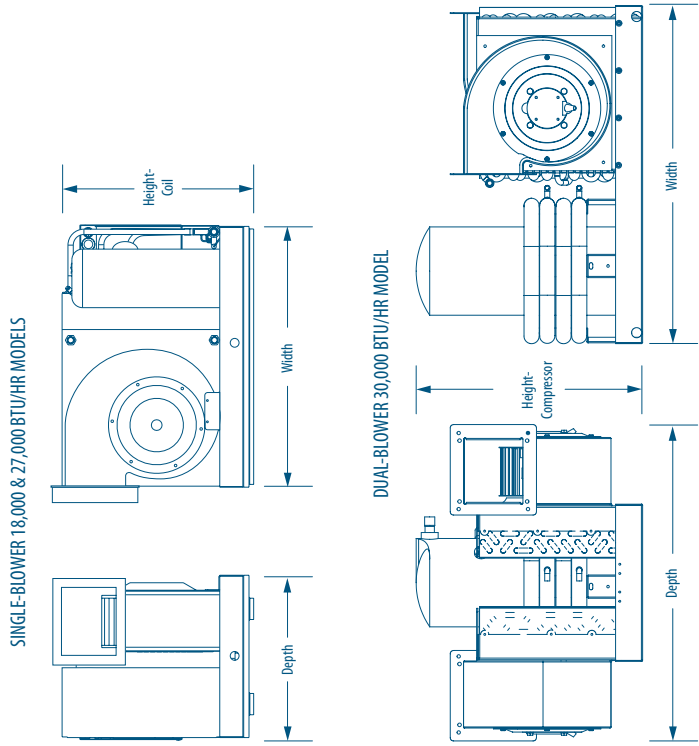
- Compact design reduces unit size by up to 25% of the original Vector Rotary's size.
- High-velocity (HV) fully-insulated blowers are rotatable.
- Blowers are rotatable and fully insulated.
- Patented design increases cooling capacity and dehumidification.
- Engineered to maximize the performance of 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 <sup>(1)</sup>	VCD18	VCD27	VCD30
Capacity (BTU/h) <sup>(2)</sup>	18	27	3
Voltage (V)	115	230	230
Cycle (Hz) <sup>(3)</sup> / Phase (Ph)	60/1	50/1	60/1
Full Load Amps (FLA) Cool (A)	11.1	6.4	5.7
Full Load Amps (FLA) Heat (A)	15.1	8.3	7
Full Load Amps (FLA) Blower (A)	1.93	1.15	1.64
Locked Rotor Amps (LRA) (A)	66	32	26
Max. Circuit Breaker (A)	45	27	26
Min. Circuit Ampacity (A)	27	13	2
Refrigerant Type	410A	410A	410A
Height-Coil (in/mm) <sup>(4)</sup>	14/356	18/458	N/A
Height-Blower (in/mm) <sup>(4)</sup>	15.5/394	19.25/489	N/A
Height-Compressor (in/mm) <sup>(4)</sup>	N/A	N/A	16/407
Width (in/mm) <sup>(4)</sup>	21/534	24.75/629	25/635
Depth (in/mm) <sup>(4)</sup>	12/305	15.25/388	23/585
Min. Supply Duct Size (in/mm)	7/178	8/204	5/127
Min. Supply Air Gills Size (sq in/sq cm)	100/646	140/904	150/968
Min. Return Air Gills Size (sq in/sq cm)	200/1291	240/1549	250/1613
Seawater Connection (in/mm)	3/8	3/8	3/8
Net Weight (lbs/kg) <sup>(5)</sup>	64/29.1	12/54.5	13/58.1
Gross Weight (lbs/kg) <sup>(5)</sup>	73/33.2	13/58.1	14/63.6

<sup>1</sup> 'S/C' indicates stainless-steel chassis, 'C' 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.  
<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 mode.  
<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> All dimensions ± 0.30 in. (8 mm).  
<sup>5</sup> All weights ± 10%

# Dimensions



**DOMETIC MARINE DIVISION**  
 2000 N. Andrews Ave. | Pompano Beach, FL 33069 USA | Tel. 954-973-2477 | Fax: 954-979-4414  
 www.Dometic.com/Marine | MarineSales@DometicUSA.com

**24/7 TECH SUPPORT FOR UNITED STATES & CANADA:**  
 8:00 AM to 5:00 PM Eastern Time: 800-542-2477  
 After hours and weekends: 888-440-4494

**INTERNATIONAL SALES & SERVICES**  
 Europe & the Middle East: Call +44(0)870-330-6101  
 For all other areas visit our website to find your nearest distributor.

L-2769 Rev. 20120914

Specifications and availability subject to change without notice.

Dealer

