

# Vector Turbo Series Boat Air Conditioning

Powerful, Quiet & Compact With No Drain Pan Worries



The Vector Turbo series completely revolutionized self-contained boat air conditioning (cooling and heating) with patented innovations in marine air conditioning system design, winning the IBEX Innovation Award in 2007.

The rust-free molded composite drain pan has three drains for the rapid removal of condensate water. The drain pan has a small footprint for installation flexibility.

A vibration-isolation mounting system results in significantly quieter, virtually vibration-free performance. The enclosed blower motor eliminates overhang for reduced depth.

The Turbo series was specifically engineered to harness and maximize the impressive performance of R-410A, a proven and environmentally safe refrigerant gas.

The optional Turbo sound cover provides up to 50% further noise reduction. This compact, easy-to-install sound cover completely encases the compressor to provide a 3- to 5-dB reduction in noise. Available for all Turbo models, the sound cover installs in minutes. Mounting hardware is included.



Optional sound cover further reduces compressor noise by up to 50%.



Vibration-isolation mounts reduce noise and vibration.

## Key Benefits

- Up to 27% more energy efficient.
- Up to 21% increased capacity.
- Compact design uses less space.
- Rust-free composite drain pan.
- Up to 85% less standing water in the drain pan.
- Vibration-isolation mounts reduce noise and vibration.
- Engineered to maximize the performance of R-410A, an environmentally safe refrigerant.
- Designed from the inside out with multiple patented innovations.
- Optional sound cover further reduces compressor noise by up to 50%.

## Product Testimonial

"There is very little noise coming from the compressor, and vibrations are practically non-existent. I highly recommend this unit."

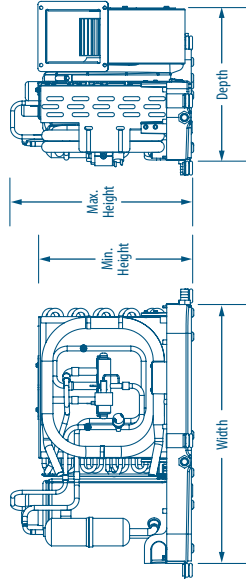
— Bob Silverman, boat owner

Specifications for Vector Turbo Series Boat Air Conditioning

| Model <sup>(1)</sup>                              | VTD6     |          |          | VTD8     |          |          | VTD10    |          |          | VTD12    |          |          | VTD16    |          |      |
|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------|
| Capacity (BTU/h) <sup>(2)</sup>                   | 6000     | 8000     | 10000    | 12000    | 16000    | 24000    | 32000    | 40000    | 48000    | 64000    | 80000    | 100000   | 120000   | 160000   |      |
| Voltage (V)                                       | 115      | 230      | 240      | 115      | 230      | 240      | 115      | 230      | 240      | 115      | 230      | 240      | 115      | 230      | 240  |
| Cycle Hz <sup>(3)</sup> / Phase (Ph)              | 60/1     | 50/1     | 50/1     | 60/1     | 50/1     | 50/1     | 60/1     | 50/1     | 50/1     | 60/1     | 50/1     | 50/1     | 60/1     | 50/1     | 50/1 |
| Full Load Amps (FLA) Cool (A)                     | 4.6      | 2.2      | 2.7      | 5.5      | 3.1      | 3.2      | 6.7      | 3.3      | 3.2      | 4        | 3.3      | 10.4     | 5.1      | 4.5      |      |
| Full Load Amps (FLA) Heat (A)                     | 5.9      | 2.8      | 3.7      | 7.1      | 4        | 4.1      | 8.8      | 3.9      | 4.3      | 10.9     | 5.1      | 4.3      | 13.6     | 6.6      |      |
| Full Load Amps (FLA) Blower (A)                   | 0.8      | 0.36     | 0.36     | 1.31     | 0.7      | 0.83     | 1.14     | 0.61     | 0.48     | 1.14     | 0.61     | 0.48     | 1.61     | 0.78     |      |
| Locked Rotor Amps (LRA) (A)                       | 36       | 17.7     | 17.7     | 36       | 17.7     | 17.7     | 42       | 22       | 21       | 58       | 28       | 21       | 62       | 34       |      |
| Kilowatt-Amps (KVA)                               | 0.68     | 0.64     | 0.89     | 0.92     | 0.92     | 0.98     | 1.01     | 0.90     | 1.03     | 1.25     | 1.17     | 1.03     | 1.56     | 1.52     |      |
| Max. Circuit Breaker (A)                          | 15       | 10       | 10       | 20       | 10       | 10       | 25       | 15       | 10       | 30       | 15       | 10       | 40       | 20       |      |
| Min. Circuit Ampacity (A)                         | 12       | 7        | 6        | 13       | 7        | 7        | 16       | 10       | 8        | 20       | 11       | 8        | 25       | 12       |      |
| Refrigerant Type                                  | 410A     |          |          | 410A     |          |          | 410A     |          |          | 410A     |          |          | 410A     |          |      |
| Min. Height (in/mm) <sup>(4)</sup>                | 10.8/275 | 10.8/275 | 12.2/310 | 12.2/310 | 12.9/328 | 12.9/328 | 13.3/338 | 13.3/338 | 13.3/338 | 13.3/338 | 13.3/338 | 13.3/338 | 13.3/338 | 13.3/338 |      |
| Max. Height (in/mm) <sup>(4)</sup>                | 11.1/282 | 11.1/282 | 13/331   | 12.5/318 | 13.4/341 | 13.4/341 | 14/356   | 14/356   | 14/356   | 14/356   | 14/356   | 14/356   | 14/356   | 14/356   |      |
| Height w/ Opt. Sound Cover (in/mm) <sup>(4)</sup> | 13.4/341 | 13.4/341 | 14/356   | 14/356   | 14/356   | 14/356   | 14/356   | 14/356   | 14/356   | 14/356   | 14/356   | 14/356   | 14/356   | 14/356   |      |
| Width (in/mm) <sup>(4)</sup>                      | 17.6/448 | 17.6/448 | 20.4/519 | 20.4/519 | 21.4/544 | 21.4/544 | 21.4/544 | 21.4/544 | 21.4/544 | 21.4/544 | 21.4/544 | 21.4/544 | 21.4/544 | 21.4/544 |      |
| Max. Depth (in/mm) <sup>(4)</sup>                 | 10.7/272 | 10.7/272 | 12.4/315 | 12.4/315 | 13.3/338 | 13.3/338 | 13.3/338 | 13.3/338 | 13.3/338 | 13.3/338 | 13.3/338 | 13.3/338 | 13.3/338 | 13.3/338 |      |
| Min. Supply Air Gills Size (sq in/sq cm)          | 4/102    | 5/127    | 6/153    | 6/153    | 7/178    | 7/178    | 7/178    | 7/178    | 7/178    | 7/178    | 7/178    | 7/178    | 7/178    | 7/178    |      |
| Min. Return Air Gills Size (sq in/sq cm)          | 32/207   | 48/310   | 60/388   | 70/452   | 80/517   | 80/517   | 80/517   | 80/517   | 80/517   | 80/517   | 80/517   | 80/517   | 80/517   | 80/517   |      |
| Seawater Connection (in/mm)                       | 64/413   | 80/517   | 100/646  | 130/839  | 160/1033 | 160/1033 | 160/1033 | 160/1033 | 160/1033 | 160/1033 | 160/1033 | 160/1033 | 160/1033 | 160/1033 |      |
| Net Weight (lbs/kg) <sup>(5)</sup>                | 5/6/16   | 5/6/16   | 5/6/16   | 5/6/16   | 5/6/16   | 5/6/16   | 5/6/16   | 5/6/16   | 5/6/16   | 5/6/16   | 5/6/16   | 5/6/16   | 5/6/16   | 5/6/16   |      |
| Gross Weight (lbs/kg) <sup>(5)</sup>              | 32/14.6  | 33/14.1  | 41/18.6  | 45/20.5  | 47/21.4  | 47/21.4  | 46/20.9  | 53/24.1  | 53/24.1  | 53/24.1  | 53/24.1  | 53/24.1  | 53/24.1  | 53/24.1  |      |
| Height-Electrical Box (in/mm)                     | 8.8/224  | 8.8/224  | 8.8/224  | 8.8/224  | 8.8/224  | 8.8/224  | 8.8/224  | 8.8/224  | 8.8/224  | 8.8/224  | 8.8/224  | 8.8/224  | 8.8/224  | 8.8/224  |      |
| Width-Electrical Box (in/mm)                      | 6.5/166  | 6.5/166  | 6.5/166  | 6.5/166  | 6.5/166  | 6.5/166  | 6.5/166  | 6.5/166  | 6.5/166  | 6.5/166  | 6.5/166  | 6.5/166  | 6.5/166  | 6.5/166  |      |
| Depth-Electrical Box (in/mm)                      | 2.7/69   | 2.7/69   | 2.7/69   | 2.7/69   | 2.7/69   | 2.7/69   | 2.7/69   | 2.7/69   | 2.7/69   | 2.7/69   | 2.7/69   | 2.7/69   | 2.7/69   | 2.7/69   |      |

1 Add a 'Z' for 230V/60Hz units or '50' for 240V/50Hz units. For example: VTD8K=115V/60Hz; VTD8Z=230V/60Hz; VTD8Z50=240V/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%

Dimensions



Dealer



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Specifications and availability subject to change without notice.