

Now Available  
With R-410A

# Vector Turbo Self-Contained Series

Powerful, Quiet & Compact With No Drain Pan Worries

Photo courtesy of Cruisers Yachts



VTD16K Vector Turbo shown  
with optional sound cover



**The Vector Turbo series completely revolutionized self-contained cooling and heating** with the newest innovations in marine air conditioning system design.

The rust-free molded composite drain pan has three drains for the rapid removal of condensate water.

An advanced cushioning system results in significantly quieter, virtually vibration-free operation. The enclosed blower motor eliminates overhang to provide easier installation.

The Turbo series was specifically engineered to harness and maximize the impressive performance of R-410A refrigerant. Used in the HVAC industry for more than 10 years, R-410A refrigerant is proven, reliable, and complies with all EPA standards and is accepted world wide.

## Easy-to-install sound cover provides up to 50% noise reduction



Make a quiet system even quieter. These compact, easy-to-install sound covers are available for all Vector Turbo models.

The cover fits over the compressor, providing a 3- to 5-dB noise reduction—which is about a 50% drop in what the human ear can perceive. Installation takes just minutes and all mounting hardware is included.

## Key Benefits

- Up to 27% more energy efficient.
- Up to 21% increased capacity.
- Compact design uses less space.
- Rust-free drain pan.
- Up to 85% less standing water in drain pan.
- Reduced noise and vibration with high-velocity blowers and mounts.
- Optional sound cover further reduces compressor noise by up to 50%.
- Engineered to maximize performance of R-410A, an environmentally safe refrigerant.

## Customer comment:

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

— Bob Silverman, owner,  
305 Bayliner Express Cruiser

ISO 9001:2008

L-2502C Rev. 20100730

MARINE AIR SYSTEMS®  
**AIR**  
by Dometic GROUP

# Technical Specifications for Vector Turbo Series

Model <sup>(1)</sup>	VTD6K			VTD8K			VTD10K			VTD12K			VTD16K		
	6,000	8,000		115	230	240	115	230	240	115	230	240	115	230	240
Capacity (BTU/Hr) <sup>(2)</sup>	115	230	240	115	230	240	115	230	240	115	230	240	115	230	240
Voltage (VAC)	60/1	60/1	50/1	60/1	60/1	50/1	60/1	60/1	50/1	60/1	60/1	50/1	60/1	60/1	50/1
Cycle (Hz)/Phase (Ph) <sup>(3)</sup>	4.60	2.20	2.70	5.50	3.10	3.20	6.70	3.30	2.90	8.70	4.00	3.30	10.40	5.10	4.60
Full Load Amps (FLA) cool	5.90	2.80	3.70	7.10	4.00	4.10	8.80	3.90	3.80	10.90	5.10	4.30	13.60	6.60	6.00
Full Load Amps (FLA) heat	0.80	0.36	0.36	1.31	0.70	0.83	1.14	0.61	0.48	1.14	0.61	0.48	1.61	0.78	0.56
Blower (FLA)	36.00	17.70	17.70	36.00	17.70	17.70	42.00	22.00	18.80	58.00	28.00	21.00	62.00	34.00	22.00
Locked Rotor Amps (Comp)	0.88	0.64	0.88	0.82	0.92	0.99	1.02	0.90	0.91	1.26	1.18	1.03	1.57	1.51	1.43
K.V.A. (Kilo-Volt-Amps)	20	11	10	21	11	11	27	16	14	34	18	14	42	20	20
Max. Circuit Breaker (Amps)	11	6	6	12	6	6	16	9	8	19	10	8	24	12	11
Min. Circuit Ampacity (Amps)	8.5/241	8.5/241	8.5/241	9.0/255	9.5/269	9.5/269	11.0/312	11.0/312	11.0/312	10.5/298	11.0/312	11.5/326	13.0/369	13.0/369	13.0/369
Refrigerant R-410A (oz/g)															
	Unit Dimensions (in./mm) <sup>(4)</sup>														
Height – Evaporator (C)	10.8/274	10.8/274		10.8/274	10.8/274		12.2/310	12.2/310		12.2/310	12.2/310		12.2/310	12.2/310	12.9/328
Height – Compressor (D) <sup>1</sup>	11.1/282	11.1/282		11.1/282	11.1/282		13.0/329	13.0/318		12.5/318	12.5/318		12.5/318	12.5/318	13.4/340
Height – w/opt. Sound Cover	13.4/340	13.4/340		13.4/340	13.4/340		14.0/356	14.0/356		14.0/356	14.0/356		14.0/356	14.0/356	14.0/356
Width (A) <sup>1</sup>	17.6/447	17.6/447		17.6/447	17.6/447		20.4/518	20.4/518		20.4/518	20.4/518		20.4/518	20.4/518	21.4/544
Depth (B) <sup>1</sup>	10.7/272	10.7/272		10.7/272	10.7/272		12.4/315	12.4/315		12.4/315	12.4/315		12.4/315	12.4/315	13.3/338
Min. Duct Size Ø (in./mm)	4/102	4/102		5/127	5/127		6/152	6/152		6/152	6/152		6/152	6/152	7/178
Min. SA Grille (sq. in./sq. cm.)	32/206	32/206		48/310	48/310		60/387	60/387		70/452	70/452		80/516	80/516	80/516
Min. RA Grille (sq. in./sq. cm.)	64/413	64/413		80/516	80/516		100/645	100/645		130/839	130/839		160/1032	160/1032	160/1032
Net Weight (lbs/kg)	43.4/19.7	43.4/19.7	43.4/19.7	46.7/21.2	46.7/21.2	46.7/21.2	49.6/22.5	52.6/23.9	52.6/23.9	52.6/23.9	53.0/24.0	53.0/24.0	59.6/27.0	59.6/27.0	59.6/27.0
Gross Weight (lbs/kg)	53.4/24.2	53.4/24.2	53.4/24.2	56.7/25.7	56.7/25.7	56.7/25.7	59.6/27.0	62.6/28.4	62.6/28.4	62.6/28.4	63.0/28.6	63.0/28.6	69.6/31.6	69.6/31.6	69.6/31.6

**Notes:**

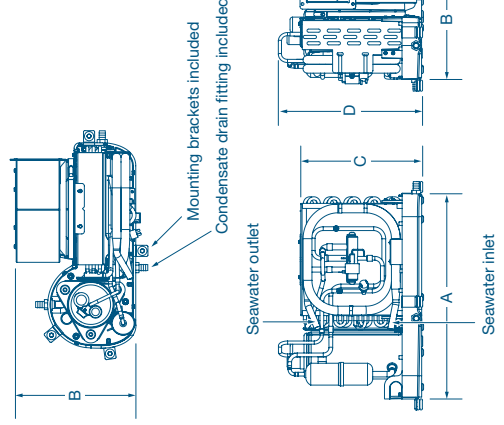
<sup>(1)</sup> Add a 'Z' after the capacity designator for 230V units. Examples VTD8K = 115V, VTD8KZ=230V, VTD8KZ50=220V/50Hz.

<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.

<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> Electric box is remote mounted up to 34" (864 mm) away from compressor. Electrical box dimensions are 2.7" (69 mm) x 6.5" (165 mm) x 8.8" (224 mm).

<sup>†</sup> Refers to callouts shown in drawing below.



Dealer:

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