



Get reliable, powerful air conditioning directly from your 12v or 24v battery, engine alternator, DC generator or shore power battery charger.

DC Breeze gives you:

- . 5k Btu/hr of air conditioning in hot tropical climates
- . Direct 12v or 24 volt DC input - no inverter
- . High energy efficiency
- . 3-speed operation
- . Digital thermostat available

DC Breeze is the first commercially available, true low voltage DC air conditioner - not just a conventional 110v air conditioner packaged with an inverter. The DC Breeze compressor is powered by a unique, permanent-magnet brushless DC (BLDC) motor which takes DC power directly from your battery bank, alternator or shore-power charger. No inverter is required. As a result, the DC Breeze provides far greater energy efficiency, reliability and cooling capacity under harsh environmental conditions.

www.dcbreeze.com



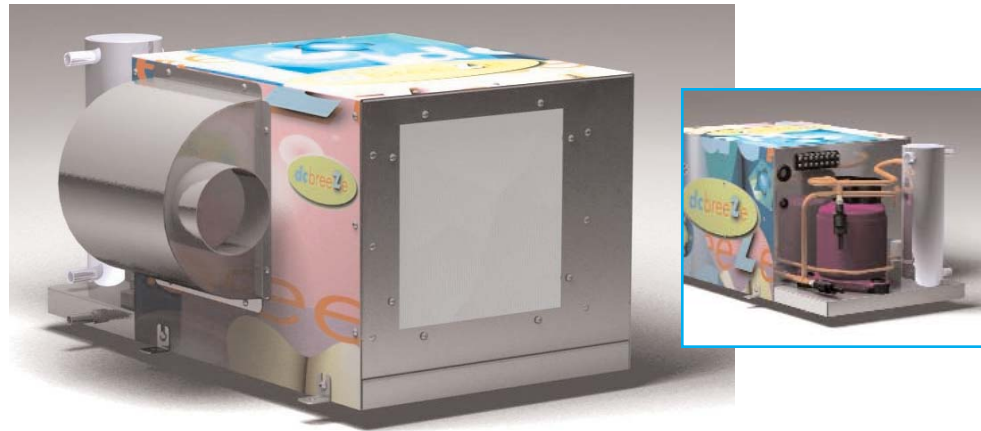
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TRUE 12 VOLT AIR CONDITIONING FROM GLACIER BAY

DC Breeze - The DC Marine Air Conditioning System

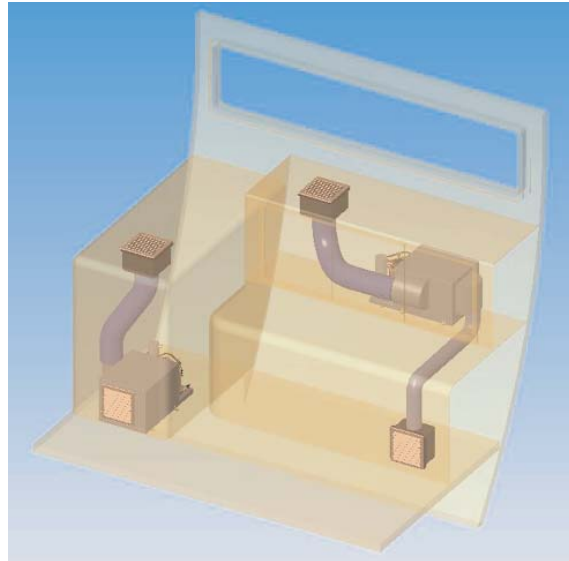
DC Breeze is the perfect solution for boaters who want the comfort of air conditioning but don't have room for, or can't justify the cost of, a generator. For larger boats that do have generators, DC Breeze makes it possible to sleep through the hottest, muggiest nights without the heat and noise of running it continuously.



SPECIFICATIONS:

Capacity (high) - 5,000 Btu/hr
 Number of speeds - 3
 Input Voltage - Choose 12vdc or 24vdc
 Input Current (high) - 48 amps @ 12v, 24amps @ 24v
 Blower - forward impeller, 280 CFM (high)
 Duct Size - 3"
 Reverse Cycle- no, cooling only
 Control - manual (std), digital (optional)
 Cooling - sea water (pump included)
 Condenser - 90/10 Copper-nickel, nickel plated exterior
 Enclosure - 100% stainless steel w/graphics wrap
 Dimensions - 20.15L* x 11.37W x 10.25H
 Weight - 48 lbs.

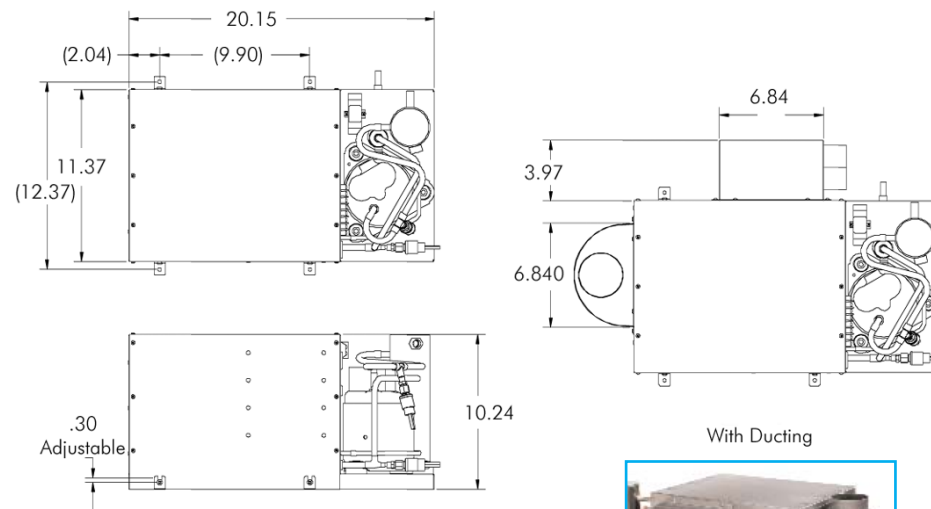
*ducted inlet adds 4" to length



Easy, Versatile Installation

The DC Breeze is designed to give you many installation options. The outlet (discharge air) connection can be rotated to permit the duct to connect from the rear, front, bottom or top of the unity. In most cases, the intake (return air) would enter the front of the unit directly through an inlet grill mounted to a bulk-head (ductless intake). For installations where the unit needs to be mounted away from the bulkhead, an optional ducted intake plenum is available. Using the intake plenum, ducted return air can enter the unit from the right side, left side, bottom or top. The illustration to the left, provides an example of just two of the many different installation options.

Dimensions -



How much power do I need?

Under the rating conditions (85F inlet air, 86F cooling water), the system will draw 48 amps when running from a fully charged 12v battery bank. This equates to 600 watts. Systems operating from 24 volts batteries will draw 24 amps. This number includes the current draw of the seawater pump and the blower. Like the actual system capacity, the current draw will also change under different ambient conditions. If the water or air temperature is lower, the current draw will be reduced. In both 12v and 24v systems, the actual battery voltage effects both the cooling capacity and current draw of the system. A reduction in battery voltage due to low batteries or voltage drop in the wiring will result in lower cooling capacity and lower current draw

What's wrong with inverter-powered A/C?

In a nutshell - poor reliability and terrible energy efficiency. At the root of the problem is that fact that conventional A/C compressor are power by induction motors which require a "surge" equal to 5x - 6x the full load running current. The best inverters can only supply surge of about 2x their peak continuous rating and are stressing the electronic components to do that repeatedly. To reliably start induction compressors, a inverter sized several times larger than the normal running current is required. Unfortunately, oversizing the inverter seriously reduces its conversion efficiency. An inverter which operates at >96% efficiency near full load typically falls to < 70% when lightly loaded. Worse still is that fact that this 25%+ additional "loss" is converted directly to heat in your cabin adding even more load to already inefficient cooling process

Why is DC Breeze Different?

DC Breeze is an entirely new concept. The hermetically sealed compressor in the DC Breeze uses an advanced brushless DC motor rather than a conventional AC induction motor. This allows the system to operate directly from DC power, eliminating the DC-to-AC inverter and the associated inductive start-up "surge". The result is an efficient, powerful, reliable cooling system that has all the advantages of convention A/C but can be efficiently powered from unconventional DC sources.

Forget what you've heard about battery-powered 12 volt air conditioning. DC Breeze is an entirely new technology, brought to you by Glacier Bay, Inc., one of the most internationally respected innovators of thermal management solutions for marine, medical and aerospace industries. Will DC Breeze solve your cooling needs? Go to our information-filled web site at www.dcbreeze.com or contact our sales department at 510-437-9100 (press #1) to find out.

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