Powered By Batteries

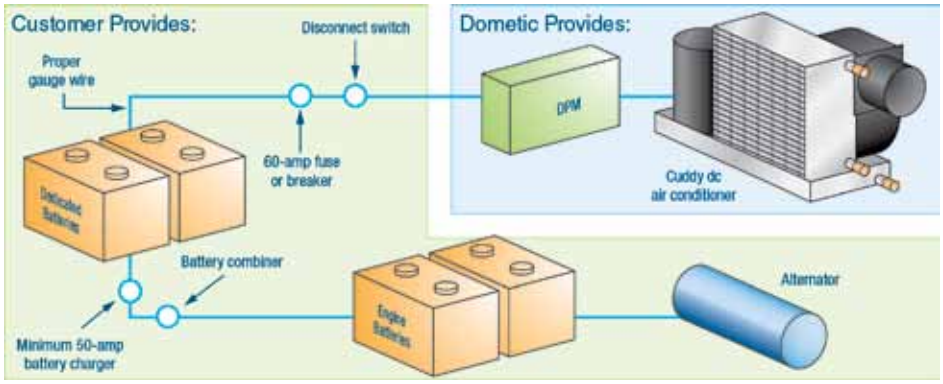
Cuddy dc Boat Air Conditioning Kit

Easy & Affordable DC-Powered Air Conditioner

The Cuddy dc is a compact 3,500 BTU/hr cool-only air conditioner designed to work with 12V power systems. Energized by a dedicated bank of batteries and a dedicated power module (DPM), the Cuddy dc makes your small cabin a refuge from the heat and sun. Compact—about the size of a typical battery box—this low-profile unit easily fits beneath a V-berth or in a storage area below deck. The Cuddy dc uses R-134A, a globally accepted, environmentally safe refrigerant.

The customer's dedicated 12V DC battery bank powers the system via the DPM, which is included with the Cuddy dc kit. Two ABYC-approved wires (sized properly for your unique installation) run from the dedicated battery bank to the DPM. Easy-to-use polarized plugs connect the DPM to the seawater pump and the Cuddy dc unit. Optional cables are available for longer runs if your setup requires more than the standard 4.5 ft. (1.37 m) cable included with the kit.

To operate the system, the Cuddy dc uses a simple two-knob mechanical control. Since it draws no power itself, the mechanical control maximizes runtime and efficiency. The Cuddy dc system (compressor, blower, and pump) draws about 29 amps of DC power under normal operating conditions. Supplemental DC power comes to you via engine power (if available) or via shore power through a battery charger.



The customer must provide the right type of batteries and the right type of battery charger. Use only deep-cycle AGM or gel-cell batteries, do not use wet-cell batteries. The battery charger must be rated for the type of battery you use. The Cuddy dc required a dedicated battery bank. To maximize runtime, we recommend using at least two batteries in the bank. The more cells, the longer the runtime. All batteries used must be of the same type - all AGM or all gel-cel - and the same age.

Key Benefits

- Designed for small cabins.
- Operates via simple 12V DC connection.
- 3,500 BTU/hr cool-only system.
- Compact - about the size of a battery box.
- High-velocity blower with split capacitor for greater airflow.
- Stainless-steel chassis.
- Simple two-knob mechanical control maximizes efficiency and runtime.
- Minimal DC draw - about 29 DC amps total.
- No genset needed.
- Air distribution kits available.

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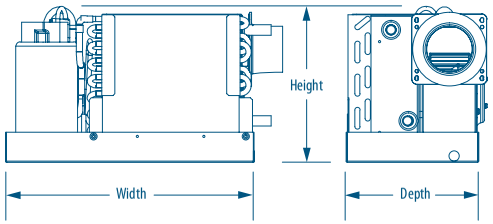
Technical Specification for Cuddy dc Kits

Component	Capacity	Height (in/mm)	Width (in/mm)	Depth (in/mm)	Weight (lbs/kg)	Refrigerant Type	Electrical [1]
Cuddy dc Unit	3,500 BTU/hr	9.25/235	15.00/381	8.0/204	29.0/13.2	R-134A	~29 amps @ 12V DC
Dedicated Power Module (DPM)	N/A	5.13/130	10.00/254	2.67/68	3.0/1.3	N/A	See Above
Climate Control	N/A	5.50/140	3.25/83	2.75/70	N/A	N/A	See Above
Seawater Pump	150 GPH	2.75/70	3.50/89	4.75/121	1.0/0.46	N/A	See Above

[1] Electrical data includes compressor, blower and seawater pump. Actual load is dependent upon humidity, seawater temperature, battery condition, voltage, and the integrity of the electrical connections.

Dimensions



Accessories for Cuddy dc Kits

- 10 ft. (3 m) DPM to Cuddy extension cable
- 20 ft. (6 m) DPM to Cuddy extension cable
- 10 ft. (3 m) pump to Cuddy extension cable
- Air distribution kit in black (includes 3 in. (76 mm) supply air grille, 8x8 in. (203x203 mm) return air grille, and 10 ft. (3 m) of flexible insulated duct)
- Air distribution kit in white (includes 3 in. (76 mm) supply air grille, 8x8 in. (203x203 mm) return air grille, and 10 ft. (3 m) of flexible insulated duct)

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