

# Cuddy II Air Conditioner

## DC-Powered Air Conditioning With Progressive Low Starting Surge



Designed for small cabins, Dometic's Cuddy II 12V DC-powered air conditioner is a self-contained, water-cooled unit for boats cruising in either freshwater or saltwater. The unit draws power gently at startup for a progressive low starting surge.

The Cuddy II is ideal for sailboats and powerboats, and can be operated directly from batteries or used dockside with a suitable battery charger. It provides 3,500 BTUs of cooling capacity and draws only 30 amps (without circulating pump).

Built for dependability, the Cuddy II has a stainless steel base pan that is insulated to prevent sweating and minimize movement and sound. The evaporator coil of lanced aluminum fins and rifled copper tubing is dipped in a protective polyester enamel. The compact motorized impeller moves air quietly and efficiently through ductwork and grille.

Protective features include independent locked-rotor protection on compressor and air mover. Under voltage protection shuts down compressor and air mover if voltage is less than 10.5V. The compressor and air mover have separate over-current protection, with a 45-amp limit on the compressor and a 27-amp limit on the air mover. The Cuddy II has thermal protection and polarity protection.

Installation is easy with a readily accessible terminal strip for both the 12V DC power input and the thermostat wiring. There are condensate connections on 3 sides of the base pan, and hold-down clamps are included. The Cuddy II uses environmentally friendly R-134a refrigerant, and comes factory charged, wired, and tested. To conserve space, the control box is mounted remotely from the air conditioner on a 4.5 ft (137 cm) heavy-duty cable.

### Key Benefits

- Ideal for small cabins, sailboats, and powerboats
- 12V DC-powered air conditioning system
- Provides 3,500 BTUs of cooling power
- Under voltage protection at 10.5V
- Dependable and easy to install
- Stainless-steel insulated base pan
- High-performance evaporator coil
- Locked-rotor protection
- Over/under voltage protection
- Thermal protection
- Polarity protection
- Factory charged, wired, and tested

### Special Options

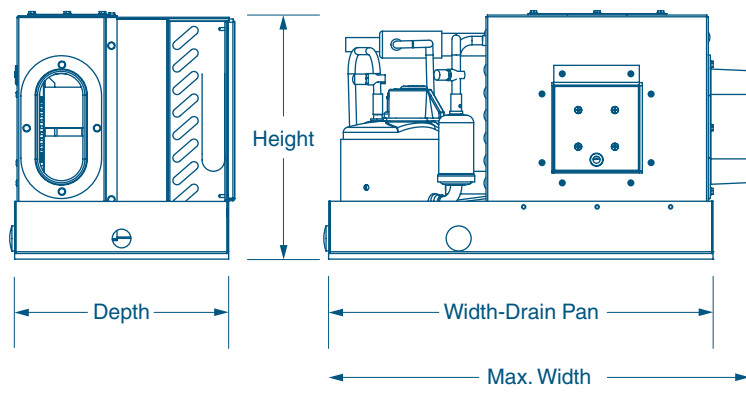
- Wall-mounted thermostat
- O-LED joystick digital control thermostat
- DC water pump
- Plumbing fittings
- Grilles, transitions, and other duct materials

## Specifications for Cuddy II Air Conditioner

Model	Cuddy II
Capacity <sup>(1)</sup>	3,500 BTU/hr
Voltage	12V DC
Min. Voltage	10.5V DC
Full Load Amps (FLA) Cool	29.2
Full Load Amps (FLA) Blower	2.7
DC Power Requirement (W)	500
Max. Circuit Breaker (Amps)	50
Min. Circuit Ampacity (Amps)	42
Refrigerant Type	R-134A
Height (in/mm)	10.86/276
Max. Width (in/mm)	18.62/473
Width-Drain Pan (in/mm)	17.00/432
Depth (in/mm)	9.5/242
Min. Duct Diameter (in/mm)	4/102
Min. Supply-Air Grille (sq. in/cm)	12/30
Min. Return-Air Grille (sq. in/cm)	64/163
Water Connections (in/mm)	0.63/16
Net Weight (lbs/kg)	35/15.9
Gross Weight (lbs/kg)	45/20.4

<sup>1</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.

## Dimensions



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Dealer



## **Dometic Cuddy II CDB3.5K 12V Self-Contained A/C**

Head out onto the water with the Dometic Cuddy II, a marine air conditioner perfect for cooling smaller boats. Using water as a cooling source, this 12-volt DC-powered unit handles trips through fresh and saltwater.

Designed for sailboats and powerboats as well as individual cabins, the Cuddy II can be operated directly from batteries or used dockside with an appropriate battery charger. A cooling capacity of 3,500 BTUs keeps the interior of your boat comfortable, while the unit uses a small amount of power – only 30 amps (without the circulating pump). The system doesn't demand a high amount of power once you turn it on, reducing the potential for a surge. The Cuddy II uses environmentally friendly R-134a refrigerant and comes factory charged wired and tested. To conserve space, the control box is mounted separately from the air conditioner on a 4.5-foot (137 centimeter) heavy-duty cable.

An insulated stainless steel base pan prevents sweating while minimizing movement and sound. The evaporator coil of lanced aluminum fins and rifled copper tubing is dipped in a protective polyester enamel. The compact motorized impeller moves air very quietly and efficiently through the ductwork and grille.

Securing the unit is the independent locked-rotor protection on the compressor and air mover. Under voltage protection shuts down the compressor and air mover if there's less than 10.5 volts. The Cuddy II also benefits from thermal protection and polarity protection.

It includes a readily accessible terminal strip for the 12 V DC power input and the thermostat wiring. Three sides of the base pan feature condensate connections. Hold-down clamps are also included.

Compact design helps cool and remove heat from cabins, sailboats and powerboats

Low-energy marine air conditioning unit: 12 V DC-powered  
Provides 3,500 BTUs of cooling power  
Under voltage protection at 10.5 V  
Stainless-steel insulated base pan  
High-performance evaporator coil  
Display not included.

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