

FCF_{5,000}

FCF_{9,000}

FCF_{12,000}

FCF_{16,000}

MARINE AIR CONDITIONER
Quick Reference Operation Guide

Table of Contents

HOW IT WORKS	4
OPERATION	4
WALL MOUNT CONTROL OPERATION	4
<i>Power ON/OFF</i>	5
<i>FAN Control</i>	5
<i>Temperature Setting</i>	5
<i>MODE Setting</i>	5
<i>Display Fahrenheit or Centigrade</i>	5
<i>Error Codes</i>	5
<i>Key lock</i>	5
REMOTE CONTROL OPERATION	6
MODE DESCRIPTIONS	7
<i>COOL Mode Description</i>	7
<i>HEAT Mode Description</i>	7
<i>DEHUMIDIFY Mode Description</i>	7
<i>FAN Mode Operation Procedure</i>	7
LIMITED WARRANTY	7
TECHNICAL ASSISTANCE	7

How It Works

Your self-contained air conditioner consists of four main components and a refrigerant gas circulating through the system. The BLOWER draws warm cabin air across the fins on the EVAPORATOR where the heat from the air is transferred to the refrigerant in the evaporator coil. As the refrigerant evaporates from a liquid into a gas, it absorbs the heat from the cabin air. The COMPRESSOR then compresses the refrigerant gas and pumps it through the outer tube in the CONDENSER COIL. The seawater pump circulates cool seawater through the inner tube in the condenser coil; this cools the refrigerant and condenses it into a liquid. The heat from the refrigerant is exchanged to the seawater and discharged overboard. The liquid refrigerant is then passed through the EVAPORATOR COIL and the cycle repeats; removing heat from the cabin air lowering its temperature. The cooled air is blown through the ducting and out the supply air grille(s). For reverse cycle heating, the refrigerant flows in the opposite direction through the reversing valve. Heat is transferred from the seawater in the condenser coil to the refrigerant and then to the air blowing through the evaporator into the cabin. Seawater temperature will directly affect the a/c unit's efficiency. This a/c unit can effectively cool your boat in water temperatures up to 90°F and heat in water temperatures as low as 40°F.

OPERATION

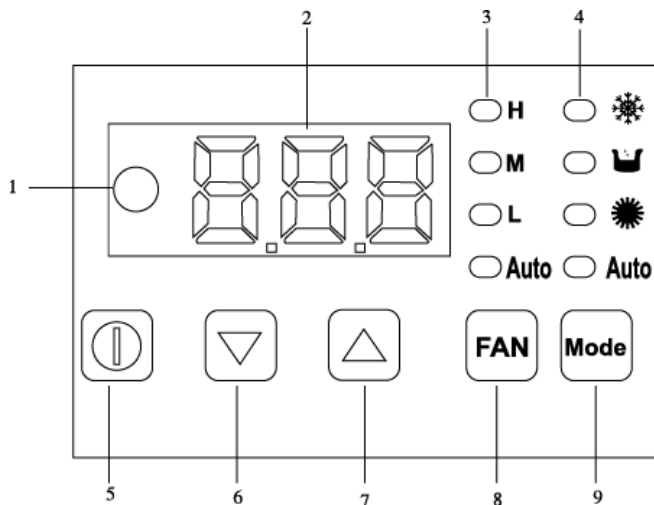


DO NOT turn the unit off and immediately back on. Wait at least 30 seconds for refrigerant pressures to stabilize.

WALL MOUNT CONTROL OPERATION



- Don't install the wired display in a location where it can get wet.
- Don't knock, throw or open the display frequently.



1.	Display Receiver
2.	Display of the Setting and Ambient Temperature
3.	Fan Speed Display
4.	Display of Mode Operation
5.	On/Off Button
6.	Temp. Setting Button / Decreasing
7.	Temp. Setting Button / Increasing
8.	Fan Speed Button
9.	Mode Button

The display control has a memory function. When the power supply is off, the wired display control will keep the last modes and setting, including MODE, TEMP, and FAN speed. When the system is turned back on, the previous settings will still remain default.

Power ON/OFF	<ul style="list-style-type: none"> Press ON/OFF button to turn the unit on. Press it again to turn the unit off. 										
FAN Control	<ul style="list-style-type: none"> Press the FAN button, the fan speed will change in the following order: → HIGH →MID → LOW → AUTO → In “DEHUMIDIFY” mode, the fan will work at low speed automatically 										
Temperature Setting	<p>Press the ▲ or ▼ temperature setting keys to increase or decrease in 1° increments</p> <ul style="list-style-type: none"> The setting range of temperature in each mode: <table border="1" data-bbox="527 489 1432 743"> <tr> <td>COOL</td> <td>61°F 86°F or 16°C 30°C</td> </tr> <tr> <td>DEHUMIDIFY</td> <td>61°F 86°F or 16°C 30°C</td> </tr> <tr> <td>HEAT</td> <td>61°F 86°F or 16°C 30°C</td> </tr> <tr> <td>FAN</td> <td>In this mode, temperature cannot be changed.</td> </tr> <tr> <td>AUTO</td> <td>In this mode, temperature cannot be changed.</td> </tr> </table>	COOL	61°F 86°F or 16°C 30°C	DEHUMIDIFY	61°F 86°F or 16°C 30°C	HEAT	61°F 86°F or 16°C 30°C	FAN	In this mode, temperature cannot be changed.	AUTO	In this mode, temperature cannot be changed.
COOL	61°F 86°F or 16°C 30°C										
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HEAT	61°F 86°F or 16°C 30°C										
FAN	In this mode, temperature cannot be changed.										
AUTO	In this mode, temperature cannot be changed.										
MODE Setting	<ul style="list-style-type: none"> Press this key to change the operation mode in order of → COOL → DEHUMIDIFY → FAN → HEAT → AUTO → In “COOL” mode, the LED marked ❄️ will be illuminated if the set temperature is lower than room temperature. If set temperature is higher than room temperature, only the fan will run. In “Dehumidify” mode, the LED marked 💧 will be illuminated and fan will work at low speed within a certain temperature range. Dehumidifying is more efficient than in cooling mode and it will save energy. In “FAN” mode, the room temperature will be displayed and the temperature cannot be set. In “HEAT” mode, the LED marked ☀️ will be illuminated when the set temperature is higher than the room temperature. When the setting temperature is lower than the room temperature, the will not run. In “AUTO” mode, the LED marked Auto will be illuminated and the room temperature will be displayed. The temperature cannot be set as the system will run automatically in the appropriate mode according to the contrast between room temperature and set temperature. COOL ONLY UNITS HAVE NO HEAT MODE. 										
Display Fahrenheit or Centigrade	<p>Pressing the ▲ and ▼ key simultaneously, will switch between Fahrenheit Centigrade modes.</p>										
Error Codes	<ul style="list-style-type: none"> Refer to the provided installation manual. 										
Key lock	<ul style="list-style-type: none"> Press ▲and FAN key simultaneously, all keys are locked. Press ▲and FAN key simultaneously again, to unlock the keys. When keys are locked, the controller is locked out of system operation. “EE” will be displayed. 										

REMOTE CONTROL OPERATION

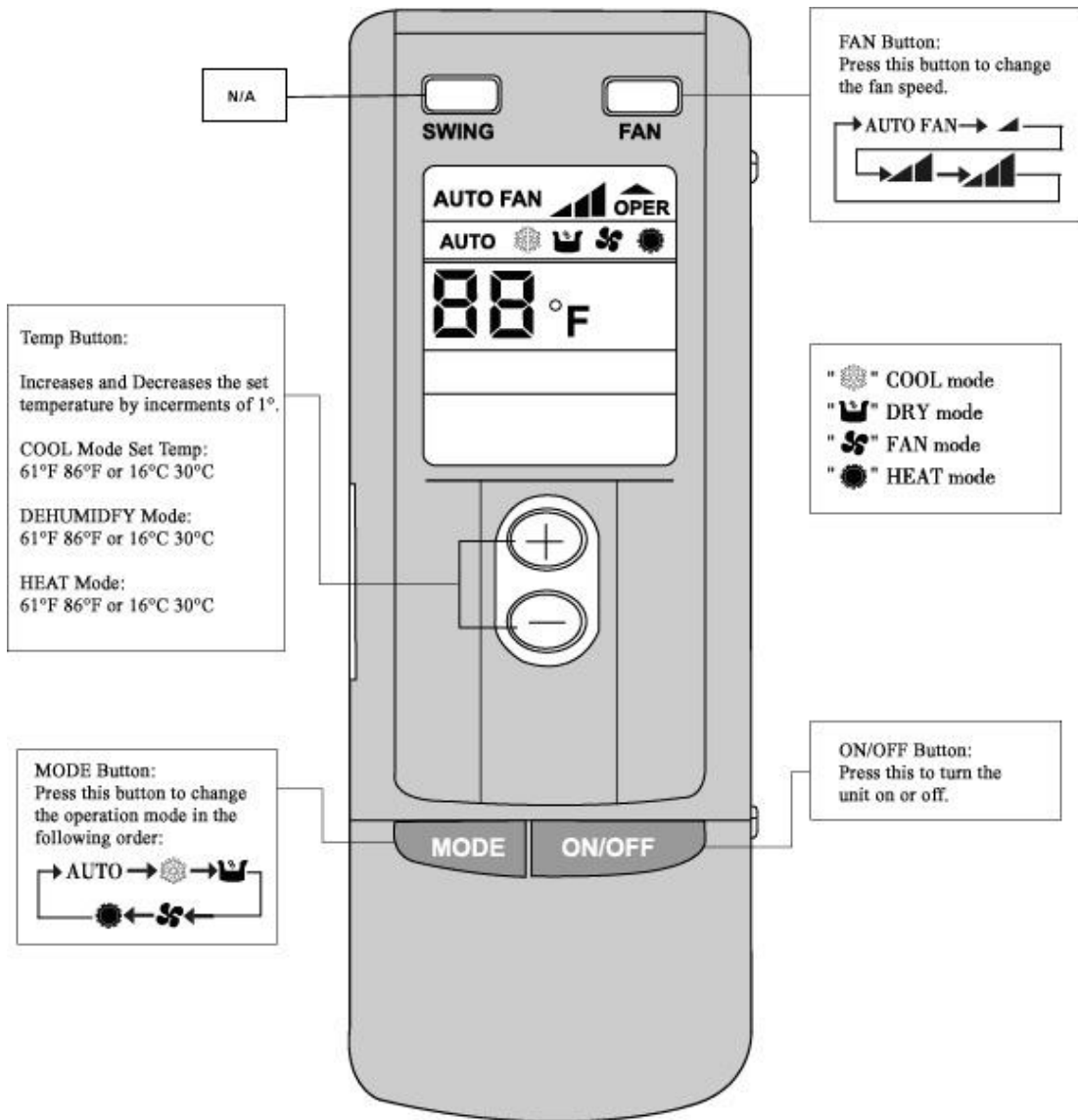


Be sure that there are no obstructions between the remote and controller.

- The remote control has a signal range up to 33' (10m).
- Do not expose the remote control to water, direct sunlight or high temperatures.



This remote control is designed for multiple applications. Some functions / buttons and display options may not apply to this AC unit.



MODE DESCRIPTIONS

COOL Mode Description

- According to the difference between room temperature and set temperature, the microcomputer will decide if cooling mode is on or off.
- If room temperature is higher than set temperature, unit runs in cooling mode.
- If room temperature is lower than set temperature, the compressor stops and only the fan will run.
- Set temperature should be in range of 61°F to 86°F or 16°C to 30°C

HEAT Mode Description

- If room temperature is lower than set temperature, the compressor runs in HEAT mode
- If room temperature is higher than set temperature, the compressor will shut off and the fan will run.
- Set temperature should be in range of 61°F to 86°F or 16°C to 30°C.
- **COOL ONLY UNITS HAVE NO HEAT MODE.**

DEHUMIDIFY Mode Description

- In DEHUMIDIFY mode, if the indoor temperature is higher than temperature setting, the unit will operate in cooling mode and the fan will run on low speed
- Set temperature should be in range of 61°F 86°F or 16°C to 30°C

FAN Mode Operation Procedure

- Temperature can not be set in this operation mode.

LIMITED WARRANTY

This product comes with a 24 month limited warranty from the date of purchase. To obtain warranty service, contact a customer service representative at: (800) 860-7866 or e-mail at: info@webasto-us.com.

TECHNICAL ASSISTANCE

If you require help, check our technical assistance website at <http://www.techwebasto.com> or call the technical support hotline at (800) 860-7866.

For quick service, please have the following information available:

- Full Name
- Phone number including the area code
- Unit Model Information
- The type of assistance you are requesting



Webasto Product N.A., Inc.

Technical Assistance Hotline

Phone: (800) 860-7866

Outside U.S. (810) 593-6000

www.webasto.us

www.techwebasto.com