MarinAire®

User Manual for Car Refrigerator/Freezer

PFC18D, PFC25D, PFC30D, PFC40D, PFC50D
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Dear Customer, thank you for purchasing a MarinAire portable refrigerator! All of our products are crafted carefully with the highest technology available and the greatest attention to detail. We hope to provide you with amazing quality, service, and customer support.

Within this manual you can find information regarding the proper use and maintenance of your brand-new refrigerator, as well as instructions on how to handle and install your car refrigerator. By following the simple instructions in this manual, you can learn how to operate your unit safely and efficiently.

### Important symbols contained in this manual:

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>⚠️</td>
<td>General warning signifying property and life-threatening conditions</td>
</tr>
<tr>
<td>⚠️</td>
<td>Electric warning</td>
</tr>
</tbody>
</table>
Improper usage or handling of your unit can cause serious damage or personal injury. The MarinAire portable refrigerator is designed for recreational use. It should not be used for commercial and industrial applications. Do not use it for any other unintended purposes. Do not remove any of the safety or warning labels from your product. Only use the power cables included with the purchase. Do not attempt to connect any other cable or power adapter to the unit.

Read the following instructions provided below to avoid personal injury and damage to the product

### Electrical Safety

- Never submerse unit in water.
- Do not place the power cord near heat sources.
- Never attempt to repair the unit yourself.
- Make sure your power source and voltage matches the rating label of your unit.
- Keep the unit at a dry location. Keep it away from rain and other various water sources (sprinklers, snow, etc.)
- Use the ON/OFF button to turn the unit on/off. Do not pull the cord from the outlet.
- Do not pull the cord to disconnect the outlet, or to carry the unit.
- Do not disassemble any parts of the unit once it is powered on.
- Do not pinch or kink the power supply line.
- Do not use the unit with a damaged cord and/or loose socket.
- If cleaning, make sure the unit is turned off and unplugged.
- Do not modify the power cord in any way.
- Use proper outlets.

### General Safety

- This product is not intended to be used by children and should be supervised at all times while in use.
- Do not allow children to play with, or crawl inside, this product. When disposing the unit, it is recommended to remove the lid.
- Make sure the unit is not placed near heat sources.
- Do not place the unit under direct sunlight.
- Try to avoid leaving food or cleaning agents in the unit.
- Do not use abrasive cleaners on the product.
- Do not tilt the unit in any way. Make sure it is level at all times and on a flat surface.
- Make sure the surface that the unit is on can withstand the weight of all it’s contents.
- Do not fill the unit with water.
- If the portable refrigerator is not going to be used, make sure to leave it unplugged.
Included Parts

1. DC Power Cord (Car adapter)
2. AC Power Cord (Wall adapter)
3. Interior Wire Baskets
Instructions of Operation

I. Interacting with your Digital Controller

Your portable refrigerator is equipped with a quick and easy digital control system. The instructions for use are provided below.

1. ON/OFF button:
--Connect the refrigerator to the power supply and press the ON/OFF button once to turn it on.
--Press the ON/OFF button again, to turn it off.

2. SET button:
--Long press the SET button for about 3 seconds to enter advanced parameter mode:
(1) Voltage protection mode: This unit has three battery protection functions, which serves to protect the normal operation of your refrigerator as well as the battery of the vehicle. The three functions are H3 (high), H2 (medium) and H1 (low). Short press "+" or "-" button to toggle between the options. The default function is H2 (medium).

NOTE:
1) It is recommended to set the battery protection at H2 (medium) when it is used in the car.
2) It is recommended to set the battery protection at H2 (medium) or H1 (low) if it is external battery or backup battery.
3) Because of the difference in voltage output from different vehicle power supply outputs, if the screen displays an F1 (voltage protection), the battery function should be reduced to a lower one (H3 is adjusted to H2 or H1).

The three voltage parameters:
<table>
<thead>
<tr>
<th>Voltage Mode</th>
<th>Stop Voltage</th>
<th>Start Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>H3 (high)</td>
<td>10.9V</td>
<td>23.8V</td>
</tr>
<tr>
<td>H2 (medium)</td>
<td>9.7V</td>
<td>21.5V</td>
</tr>
<tr>
<td>H1 (low)</td>
<td>9.6V</td>
<td>21.3V</td>
</tr>
</tbody>
</table>

(2) Short press the SET button again to select ECO or HH mode:
--Short press "+" or "." button to switch between ECO (energy-saving mode) or HH (fast cooling mode).
--The default setting is HH.

(3) Short press the SET button to switch between Celsius and Fahrenheit. Use the “+” button to toggle between the temperature settings.
NOTE: If you don’t press any buttons for 10 seconds, you will automatically exit “advanced parameter mode”.

3. “+” Button: for increasing the temperature.
4. “-” Button: for decreasing the temperature.

--After you press ON/OFF button, you can set the temperature range from -13°F to 68°F. Short press the “+” and “-” button, or long press “+” and “-” button to adjust the temperature.
--When the refrigerator is on, press the ON/OFF button and the “-” button simultaneously for 5 seconds, to enter temperature calibration mode. Here, the temperature can be adjusted at range of 23°F to 41°F.

5. “Power” indicator:
--When the refrigerator works, the light is red.
--When the refrigerator is off, the light is off.
--When the refrigerator is in ECO mode, the light is green.

6. “Error” indicator:
--If there is a failure, an alarm will ring continuously.
--The screen will show the fault code (explained in the section below).
--The failure indicator will be in blue.

7. LED display:
--Displays the temperature amongst other settings.
--The screen may show the following fault codes:
F1: Voltage failure
F2: Fan current failure
F3: Compressor starting failure
F4: Minimum speed failure of compressor
F5: Controller temperature fault
E0: Broken sensor circuit
E1: Sensor short circuit

NOTE: If the system is abnormal, first check if the battery voltage is correct. If the battery voltage is right, then wait 3 minutes before you switch on the refrigerator. If the system is still abnormal when you restart the machine, call service for help.
II. Proper handling and installation…

1. Once the unit has been removed from the packaging, place it on level ground away from direct heat sources.
2. It is recommended to wipe the inside of the refrigerator with water before use.
3. Wait at least ten minutes before turning on the refrigerator, as it may have been tilted during delivery.
4. Insert the AC power cord into a 115V/60Hz outlet (12V/24V if you are inserting the DC power cord).
5. Make sure to not exceed the given power outlet ratings.
6. Do not move the freezer when it is turned on.
7. If moving the freezer, keep it level and try to avoid tilting it (to protect the compressor).

III. Proper Placement of your unit…

- In order to ensure proper ventilation of the refrigerator, leave 2” of room on each side of the unit, and 4” of room at the rear.
- Avoid moving your portable refrigerator while it is being used.
- If your unit has a drawbar, do not drag it across rough terrain.
- If your unit has a drawbar, make sure the refrigerator is not tilted when you’re moving it. If it is, leave it upright for at least 10 minutes before turning it on.
- Avoid placing the unit in direct sunlight or with areas of high heat to ensure efficient cooling.
- Do not place the unit in a “built-in” area.
- The portable refrigerator is not weather proof. Do not put it under rain or other harsh weather conditions.
- Do not submerge the unit in water.
- To ensure proper cooling, please do not leave the lid open. Close immediately after use.
- Place the refrigerator on level ground. Do not tilt it.

IV. Maintaining your unit…

- If you are not planning on using your portable refrigerator, disconnect the freezer from the power supply and leave the lid open to avoid the accumulation of mold.
- Store the unit away from children. (As they could accidentally be trapped inside the unit).
- If cleaning the unit, make sure the power is off and the cables are disconnected.
- The unit can be internally and externally cleaned with diluted(with water) cleaning agents such as detergent, soap, baking soda etc.
- Do not use abrasive cleaning agents.
- If ice has accumulated in your unit, turn off the power and allow the ice to melt.
V. Technical parameters

<table>
<thead>
<tr>
<th>Model</th>
<th>PFC18D</th>
<th>PFC25D</th>
<th>PFC30D</th>
<th>PFC40D</th>
<th>PFC50D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volume</td>
<td>19 Quart</td>
<td>26 Quart</td>
<td>31 Quart</td>
<td>42 Quart</td>
<td>52 Quart</td>
</tr>
<tr>
<td>Climate type</td>
<td>T/ST/N/SN</td>
<td>T/ST/N/SN</td>
<td>T/ST/N/SN</td>
<td>T/ST/N/SN</td>
<td>T/ST/N/SN</td>
</tr>
<tr>
<td>Voltage</td>
<td>AC- 115V~60Hz DC- 12V/24V</td>
<td>AC- 115V~60Hz DC- 12V/24V</td>
<td>AC- 115V~60Hz DC- 12V/24V</td>
<td>AC- 115V~60Hz DC- 12V/24V</td>
<td>AC- 115V~60Hz DC- 12V/24V</td>
</tr>
<tr>
<td>Current</td>
<td>1.5A/3A</td>
<td>1.7A/3.4A</td>
<td>1.85A/3.7A</td>
<td>2.1A/4.2A</td>
<td>2.3A/4.6A</td>
</tr>
<tr>
<td>Power</td>
<td>36W</td>
<td>41W</td>
<td>45W</td>
<td>50W</td>
<td>55W</td>
</tr>
<tr>
<td>Temperature</td>
<td>-0.5°F</td>
<td>-0.5°F</td>
<td>-0.5°F</td>
<td>-0.5°F</td>
<td>-0.5°F</td>
</tr>
<tr>
<td>Refrigerant</td>
<td>R134a</td>
<td>R134a</td>
<td>R134a</td>
<td>R134a</td>
<td>R134a</td>
</tr>
</tbody>
</table>

(Note: due to technical improvement, the above parameters may be changed, and it is subject to the rating label parameters of the product.)

Common Q&A’s:

Use this guide to help you resolve common issues:

**Q:** There are weird noises coming from my refrigerator, is this normal?
**A:** It is generally normal for the refrigerator to make noises. If your fridge is tilted, moving it to level ground may improve these sounds. Some possible noises you may hear include:
   a) The fan (It’s normal for it to run all the time).
   b) The refrigerant (Gurgling or hissing sounds, this is normal.)
   c) Continuous metallic thumping: This is an indication of a problem. The unit may have been tilted or dropped during carrying. This can damage the compressor. Leave the unit on a level surface for 24 hours, and try turning it on again.

**Q:** My refrigerator is not turning on.
**A:** There are many possible causes to this. Some outlets may not give off sufficient power. Try another outlet.

**Q:** My refrigerator is tripping my circuit breaker or power cord.
**A:** Does it work in a different room or circuit? It may be plugged in to the wrong outlet with an insufficient power supply.

**Q:** My refrigerator has sufficient power but the compressor is not turning on.
**A:** Make sure the lid is closed and there is ample space (2” at sides, 4” at rear) around the unit for it to ventilate properly. If the temperature around the unit is too low the compressor may not run, move it to a warmer location. If none of these apply to you, there may be a disconnected wire.
MANUFACTURERS LIMITED WARRANTY AGREEMENT

It is expressly understood that unless a statement is specifically identified as a warranty, statements made by MarinAire, LLC, a Florida Limited Liability Company, (“MARINAIRE”) or its representatives, relating to MARINAIRE’s products, whether oral, written or contained in any sales literature, catalog or agreement, are not express warranties and do not form a part of the basis of the bargain, but are merely MARINAIRE’s opinion or commendation of MARINAIRE’s products. EXCEPT AS SPECIFICALLY SET FORTH HEREIN, THERE IS NO EXPRESS WARRANTY AS TO ANY OF MARINAIRE’S PRODUCTS. MARINAIRE MAKES NO WARRANTY AGAINST LATENT DEFECTS. MARINAIRE MAKES NO WARRANTY OF MERCHANTABILITY OF THE GOODS OR OF THE FITNESS OF THE GOODS FOR ANY PARTICULAR PURPOSE.

GRANT OF LIMITED WARRANTY

MARINAIRE warrants its products, purchased and retained in the United States of America and Canada, to be free from defects in material and workmanship under normal use and maintenance as follows: Air conditioning, Refrigeration, heating and/or heat pump units built by MARINAIRE (“MARINAIRE labelled Units”) for One (1) year from the date of sale (as defined below); (2) Thermostats and control systems made by MARINAIRE, when installed with MARINAIRE Units, for one (1) year from the Date of sale (as defined below); (3) Sealed refrigerant circuit components of MARINAIRE Units (which components only include the compressor, refrigerant to air/water heat exchangers, reversing valve body and refrigerant metering device) for one (1) years from the date of sale (as defined below); Date of Sale is the date of invoice created. To make a claim under this warranty, Warranty Claim Form must be filed to MARINAIRE, and parts must be returned to MARINAIRE, Miami, FL, freight prepaid, no later than thirty (30) days after the date of the failure of the part; if MARINAIRE determines the part to be defective and within MARINAIRE’s Limited Warranty, MARINAIRE shall, when such part has been either replaced or repaired, return such to a factory recognized distributor, dealer or service organization, F.O.B. MARINAIRE, Miami, FL., freight collect. The warranty on any part repaired or replaced under warranty expires at the end of the original warranty period. This warranty does not cover and does not apply to: (1) Air filters, grilles, fittings, hoses, air ducts, circulation pumps, refrigerant, fluids, oil; (2) Products relocated after initial installation; (3) Any portion or component of any system that is not supplied by MARINAIRE, regardless of the cause of the failure of such portion or component; (4) Products on which the unit identification tags or labels have been removed or defaced; (5) Products on which payment to MARINAIRE, or to the owner’s seller, is in default; (6) Products subjected to improper or inadequate installation, maintenance, repair, wiring or voltage conditions; (7) Products subjected to accident, misuse, negligence, abuse, fire, flood, lightning, unauthorized alteration, misapplication, contaminated or corrosive air or liquid supply, operation at out of range air or water temperatures or flow rates, or opening of the refrigerant circuit by unqualified personnel; (8) Mold, fungus, sand, mud, seaweed or bacteria damages; (9) Corrosion or abrasion of the product; (10) Products, parts and components supplied by others; (11) Products which have been operated in a manner contrary to MARINAIRE’s printed instructions; (12) Products which have insufficient performance as a result of improper duct or plumbing system design or improper application, installation, or use of MARINAIRE’s products; or (13) Electricity or fuel costs, or any increases or unrealized savings in same, for any reason whatsoever. MARINAIRE is not responsible for: (1) The costs of any system components supplied by others, oil, refrigerant or, associated labor to repair or replace the same, which is incurred as a result of a defective part covered by MARINAIRE’s Limited Warranty; (2) The costs of labor, refrigerant, materials or service incurred in diagnosis and removal of the defective part, or in obtaining and replacing the new or repaired part; (3) Transportation costs (4) The costs of normal maintenance.
LIMITATION OF REMEDIES
In the event of a breach of the Limited Warranty, MARINAIRE will only be obligated at MARINAIRE’s option to repair the failed part or unit, or to furnish a new or rebuilt part or unit in exchange for the part or unit which has failed. If after written notice to MARINAIRE in Miami, FL, of each defect, malfunction or other failure, and a reasonable number of attempts by MARINAIRE to correct the defect, malfunction or other failure, and the remedy fails of its essential purpose, MARINAIRE shall refund the purchase price paid to MARINAIRE in exchange for the return of the sold good(s). Said refund shall be the maximum liability of MARINAIRE. THIS REMEDY IS THE SOLE AND EXCLUSIVE REMEDY OF THE BUYER OR PURCHASER AGAINST MARINAIRE FOR BREACH OF CONTRACT, FOR THE BREACH OF ANY WARRANTY OR FOR MARINAIRE’S NEGLIGENCE OR IN STRICT LIABILITY.

OBTAINING WARRANTY PERFORMANCE
Normally, the dealer or service organization who installed the products will provide warranty performance for the owner. Should the installer be unavailable, contact any MARINAIRE recognized distributor, dealer or service organization. If assistance is required in obtaining warranty performance, write or call:

Marinaire LLC.
11129 NW 122nd st
Medley FL 33178
Toll Free: 1-800-724-8071
Fax: (305)-748-6071
Service@marinaire.com