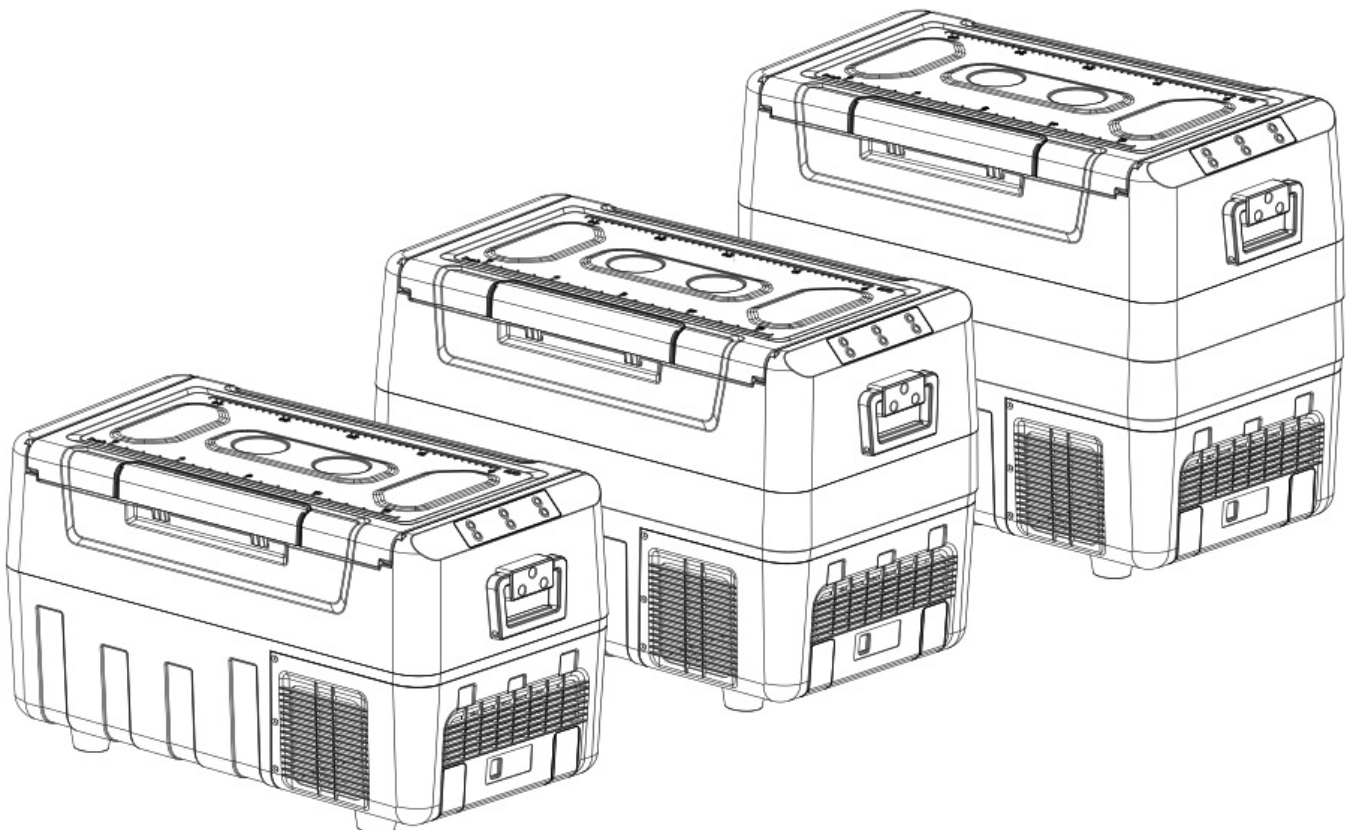




F40C4TMP 12 Volt Portable Refrigerator User Manual

[Home](#) » [F40C4TMP](#) » F40C4TMP 12 Volt Portable Refrigerator User Manual 

F40C4TMP 12 Volt Portable Refrigerator

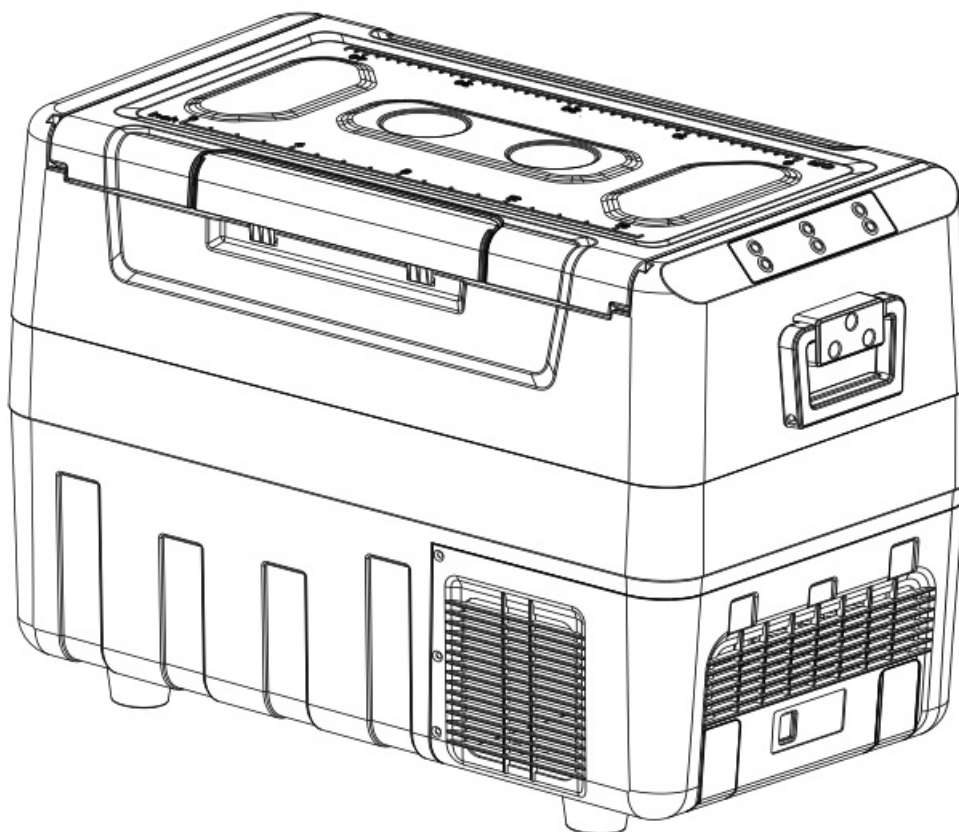


Contents

- 1 Package Contents
- 2 Safety Instructions
- 3 Preparing Before Use
- 4 Product Introduction
 - 4.1 Product Features
 - 4.2 Product Size
 - 4.3 Product Structure
- 5 Operation Instruction
 - 5.1 Function Introduction
 - 5.2 Turn ON/OFF
 - 5.3 Temperature Setting
 - 5.4 Divider Usage Instruction
 - 5.5 °C/°F Switch
 - 5.6 MAX/ECO Cooling Mode Switch
 - 5.7 H1/N2/L3 Car Battery Protection Mode Switch
 - 5.8 Power-Off Memory Function
- 6 Car Battery Protection(H1/N2/L3) Voltage Reference
- 7 Troubleshooting and Error Code Problems
- 8 Cleaning and Maintenance
- 9 FAQ
- 10 Electrical Schematic
- 11 Warranty and Maintenance
- 12 Customer Service
- 13 Documents / Resources
 - 13.1 References
- 14 Related Posts

Package Contents

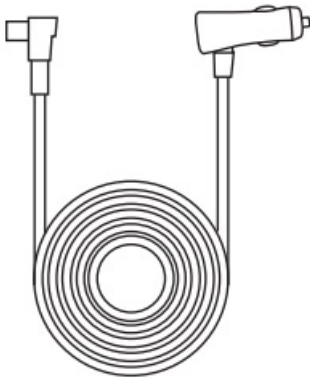
- 1. Package Contents



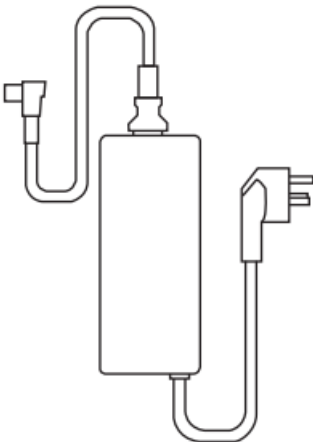
2. User Manual



3. 12/24V DC Power Cord (10.14 ft)



4. 100~240V AC Adapter (7.09 ft)



Safety Instructions



WARNING! Failure to comply with these warnings may cause your fridge to malfunction and may result in injury to you and other users.

- DO NOT use the fridge if it is visibly damaged.
- DO NOT block the gap in the fridge with things like pins, wire, etc.
- DO NOT expose the fridge to rain or submerge it in water.
- DO NOT place the fridge near open flames or other sources of heat, such as heaters, direct sunlight, gas stoves, etc.

- DO NOT store explosive substances in the fridge, such as spray cans with flammable propellants, etc.
- Before powering on the fridge, ensure the power cord and plug are dry.
- Before powering on, check whether the voltage specification on the energy supply matches that of the fridge.
- Before powering on for the first time, ensure that the fridge has been left flat for 12 hours. (Condition: door opens at the top.)
- Ensure that the fridge stays horizontal when it is running. The tilt angle must be less than 5° for long-term work and less than 45° for short-term work.
- The fridge must be well-ventilated to allow for heat dissipation and ensure that there is space around the cooling vents. (Back space: 7.9 in, side space: 3.9 in)
- The fridge can only be repaired by qualified personnel. Improper repairs may lead to safety hazards. If the power cable is damaged, it must be replaced by the manufacturer, customer service, or a similarly qualified person in order to prevent safety hazards.



NOTICE!








- The fridge can be used by children aged eight years and over, as well as by persons with reduced physical, sensory or mental abilities or lack of experience and knowledge. However, they must be supervised during use or they must have been adequately taught how to use the fridge safely and have been made aware of the risks involved before using it.
- Children must be supervised in the use of this fridge to ensure they are not playing with it.
- If the current output on board meets the voltage requirements of the fridge, then it can be used directly. If the current output on board does not meet the voltage requirements of the fridge and the wiring needs to be modified, this must be done by a professional electrician.
- DO NOT pull the plug out by pulling the cord.
- Disconnect the fridge or turn it off when you turn your car engine off. Otherwise, it could drain your car's battery.



CAUTION!

- Before placing food in the fridge, it is advisable to keep it in its original packaging or keep it in a suitable storage box.
- Set the right temperature for the food you are putting in the fridge. The table below shows the recommended temperatures for some common foods.

Recommended Temperature For Common Food

						
Drinks	Fruits	Vegetable	Delicatessen	Wine	Ice Cream	Meat
41°F/5°C	41~46°F/5~8°C	37~50°F/3~10°C	39°F/4°C	50°F/10°C	14°F/-10°C	0°F/-18°C

Preparing Before Use

- **Please read this manual carefully before use_and keep it properly**

1. When using it for the first time, clean the inside and the outside of the portable refrigerator with a damp cloth.
2. Do not pour liquid especially corrosive liquid directly into the portable refrigerator.
3. If not used for a long time, please disconnect the power and keep the inside of the portable refrigerator dry.
4. Please clean the inside of the refrigerator regularly to prevent odorous bacteria to ensure food safety.

- **Safety attention**

1. Always ensure that the power supply voltage connected to the portable refrigerator is correct(the portable refrigerator verification voltage parameter is on the parameter label).
2. Do not pour liquid especially corrosive liquid directly into the portable refrigerator.
3. To avoid danger, it is forbidden to transform the refrigerator privately.
4. The refrigerator could not be exposed to rain.

- **Connect the power supply**

Connect 11 Ov wall outlet with AC adapter



Connect cigarette lighter with DC cord




Connect the portable refrigerator



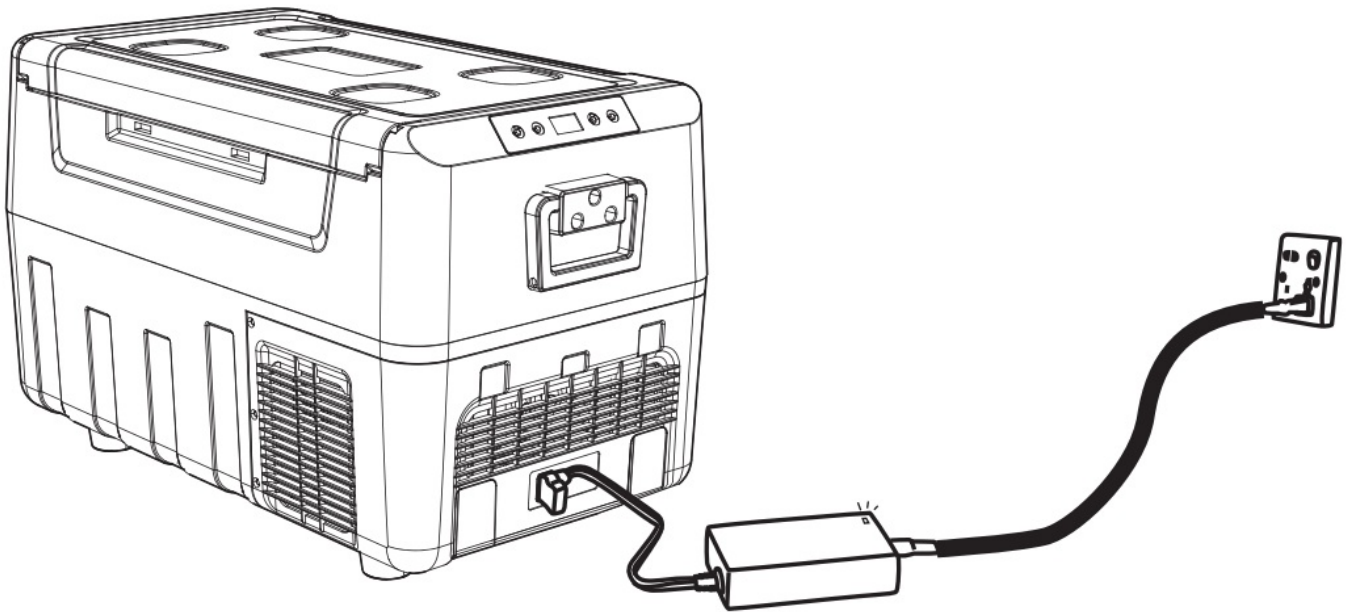
1. CD The portable refrigerator is dual-use for cars and homes. It supports 12V /24V DC and 11 DV AC.

Tips: The refrigerator can also run with an energy storage power supply.

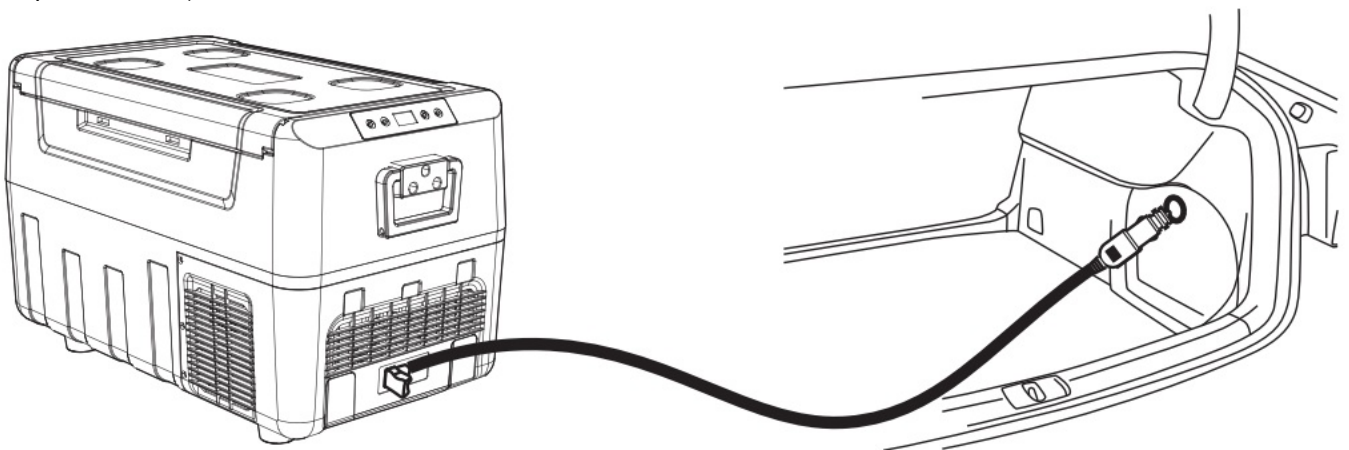
2. When using 12/24V as a power supply: find the DC power cord in the kit. Connect the DC plug to the power outlet of the portable refrigerator with another end plugged into a cigarette lighter.
3. When using 100-240V as a power supply: find the AC adapter(2 sections) in the kit. Connect one plug to the power outlet of the portable refrigerator with another end plugged into the household wall outlet.
4. Short press the “”, then the portable refrigerator will be turned on.

- Ways to connect the power supply

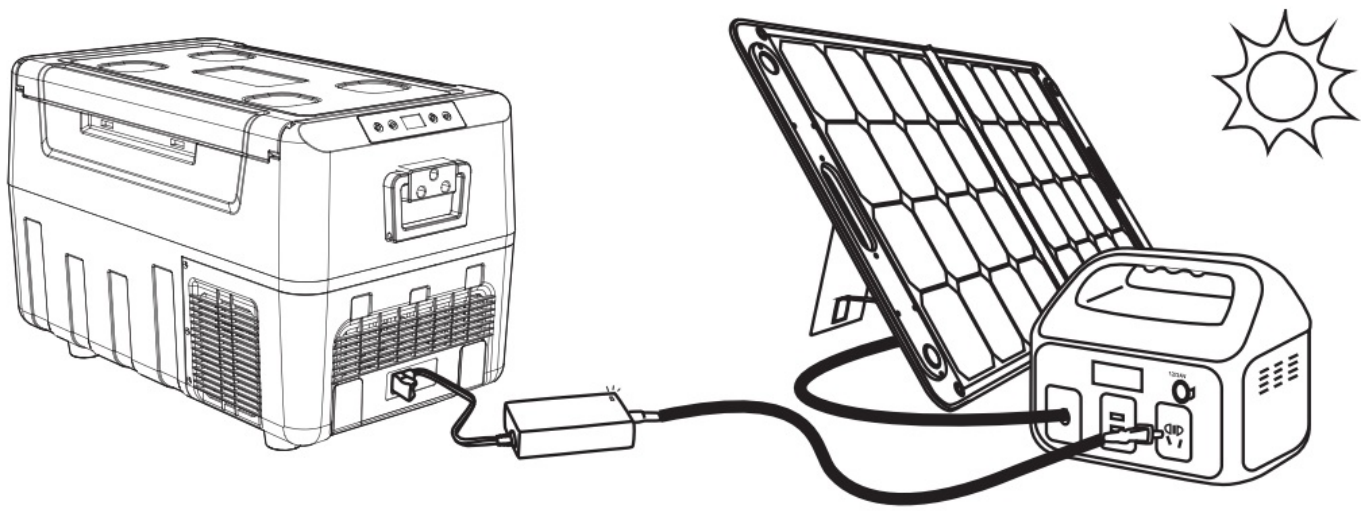
Connect the refrigerator to a 100-240V AC power supply with the AC adapter(When used at home or hotel).



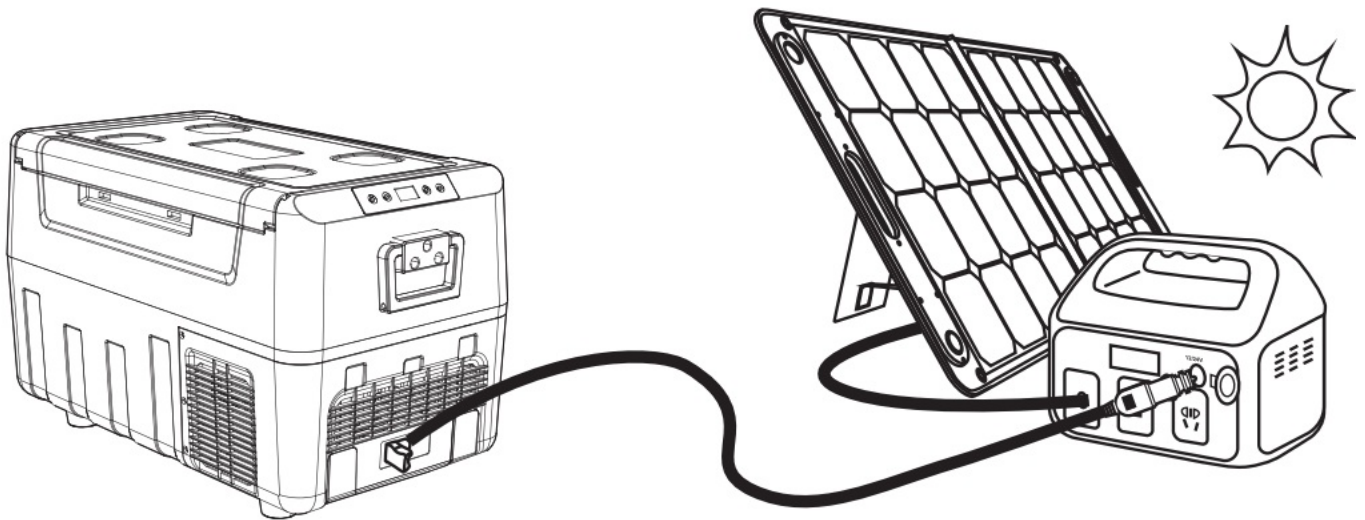
Connect the refrigerator to a 12V /24V power supply with the DC cord(When used in a car, truck, Camper, Van, Jeep, SUV, boat).



Connect the refrigerator to a portable power station and solar panel with the 100V-240V AC adapter.



Connect the refrigerator to a portable power station and solar panel with the 12/24V DC cord.



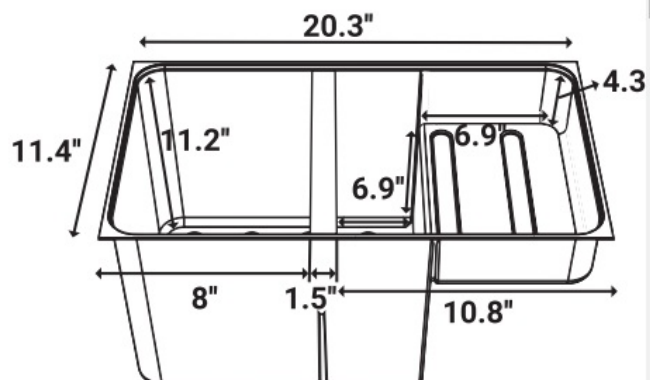
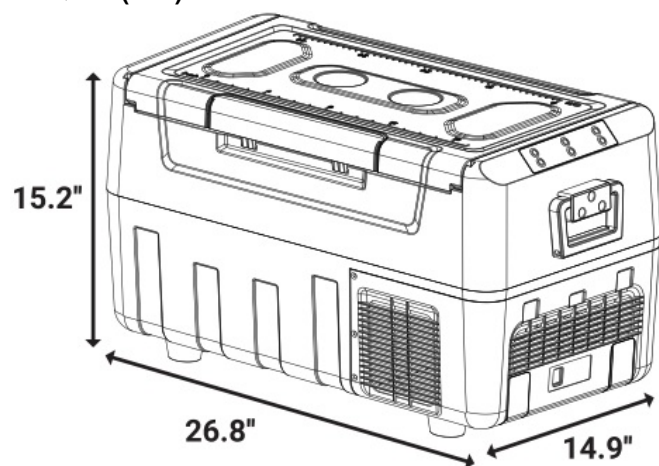
Product Introduction

Product Features

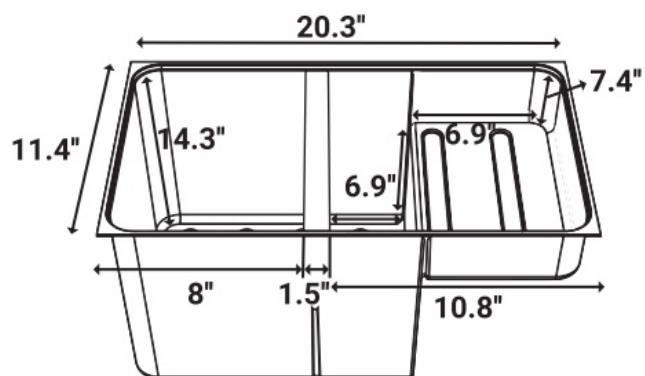
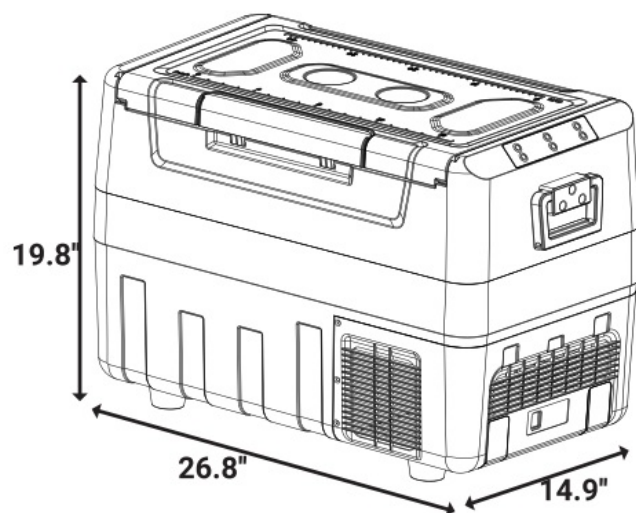
1. **Multiple Usage Scenarios:** You can use this fridge in a variety of vehicles such as SUV, Truck, RV, Camper, Jeep, Van, Boat, etc. It can also be used for outdoor activities such as camping, tailgating, road trips, outdoor trips, and off-road. The fridge can also be used when at home.
2. **Freezer and Refrigerator:** With an adjustable temperature range from -4°F to 50°F, it can be used as a freezer and a refrigerator at the same time.
3. **2 Cooling Modes:** MAX mode and ECO mode. MAX mode is used for fast cooling, and its rated power of it is 60W. ECO mode is used to save energy, and its rated power of it is 45W.
4. **Energy Efficiency:** No matter whether the fridge is in MAX mode or ECO mode, it consumes far less than 1 kWh per day for its intelligent cycle work.
5. **3-Level Battery Protection Function:** When the car battery power drops to a certain level, the fridge will automatically cut off the power connection to ensure that the car battery will not run out.
6. **45dB Low Noise:** This fridge has a low-noise design that will not disturb you when driving or sleeping.
Power-Off Memory Function: When the fridge is turned on again after a power failure, the settings will remain the same as the last time it was set.

Product Size

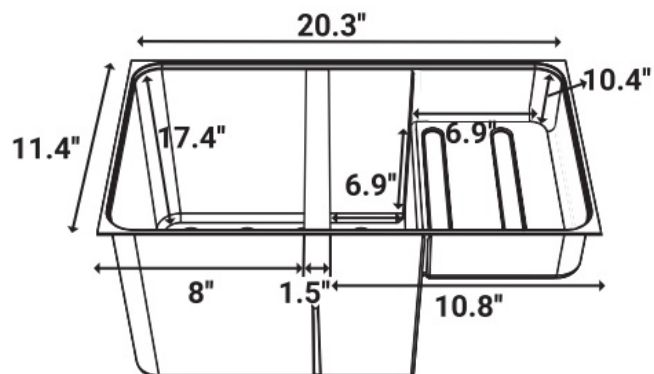
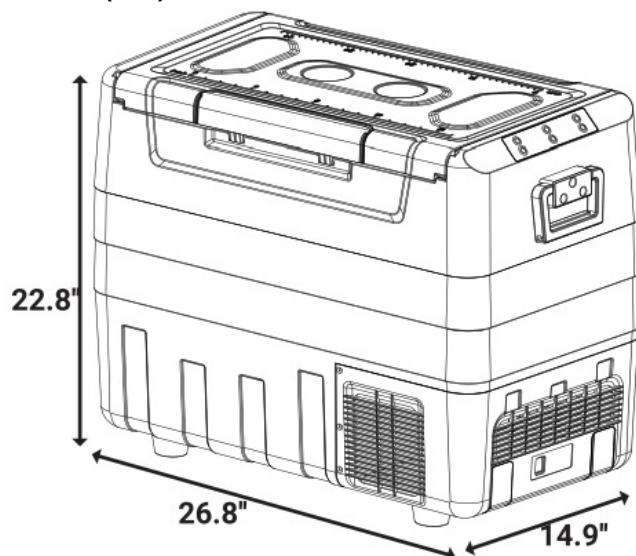
37 Quart(35L)



47 Quart(45L)



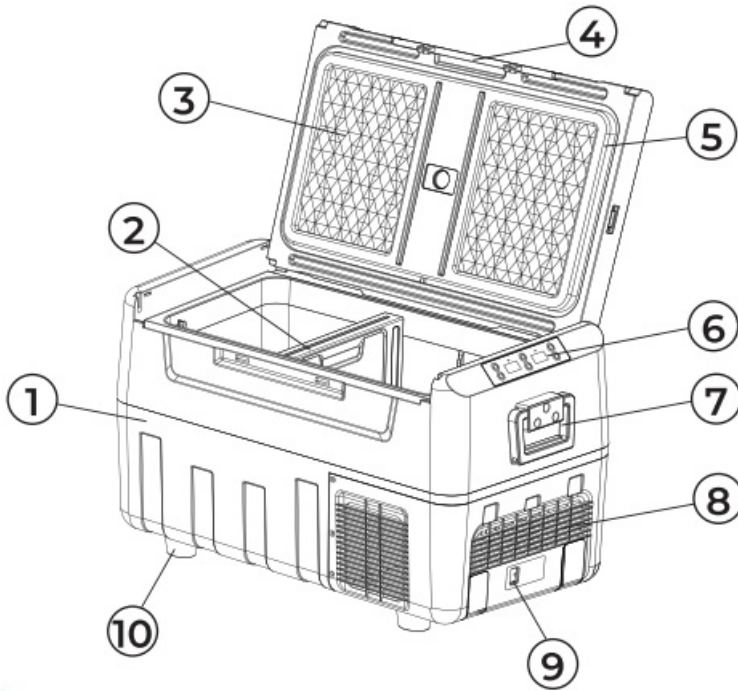
58 Quart(55L)



Product Structure

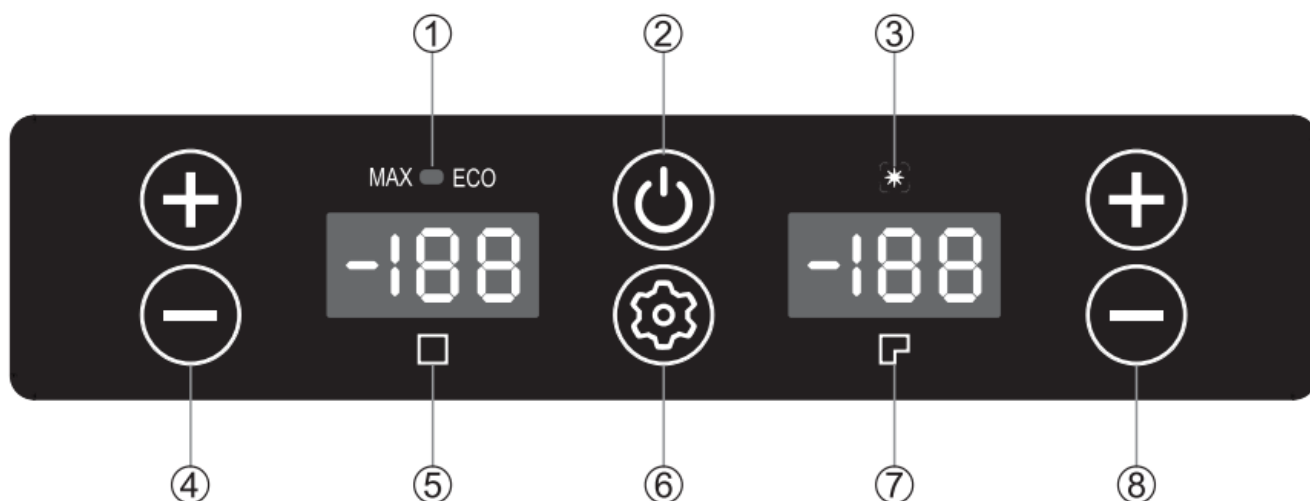
1. Cabinet

2. Removable Divider
3. Lid
4. Lid Latch
5. Sealing Rubber Ring
6. Control Panel (CT) Handle
7. Vent
8. Power Outlet
9. Bottom Feet



Operation Instruction

1. MAX/ECO Mode
2. ON/OFF Button
3. Cooling Indicator
4. Temp Control of the Big Zone
5. Temp Display of the Big Zone
6. Setting Button
7. Temp Display of the Small Zone
8. Temp Control of the Small Zone



Function Introduction

After powering on, the digital control panel will light up for 1 second, and then the panel goes off. At this time, the refrigerator is in standby mode. The default settings remain as the last time set. In the standby mode, nothing will light up.

NOTE: If the button makes a “Beep” sound when you press it, the button is activated.

Turn ON/OFF



Short press the “ ” button to turn on or off the refrigerator. After turning on the refrigerator, the display panel will show the actual temperature inside the fridge. Then the refrigerator will start working.

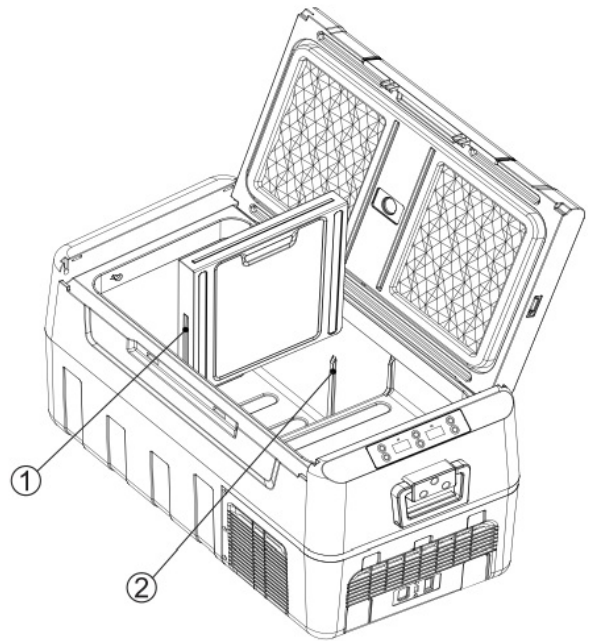
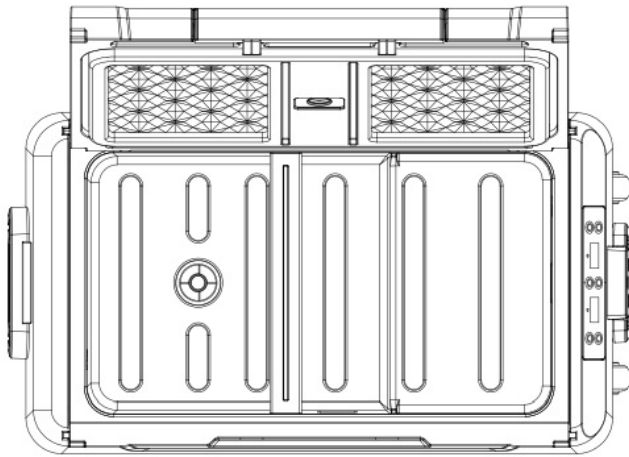
Temperature Setting

When the divider is placed in the corresponding position in the refrigerator, the temperature of the big zone and the small zone can be controlled separately at this time. When the divider is taken out, two zones become one zone, and the temperature controller controls the whole temperature of the refrigerator.

Divider Usage Instruction

Align the divider with the card position in the middle of the inner box, and install it down to the end.

1. Card slot down.
2. Align the card position of the card slot.





Under the working state, after inserting the divider, the panel displays the temperature of the two zones separately. When setting the temperature, the set temperature of the small zone must be less than or equal to the set temperature of the large zone, for example: the small zone is set to -10°C (14°F), at this time, the large zone can only be set from -10°C (14°F) to 10°C (50°F).

NOTE: It is recommended to use the large zone as a fridge (for fresh food) and the small zone as a freezer (for frozen food).

1. Dual Temperature Control




(The divider must be placed in the corresponding position in the box.)

Under the working state, press the “” or “” button of the corresponding temperature zone to set the temperature;

NOTE: The “” area controls the temperature of the big zone, and the “” area controls the temperature of the small zone.

2. Single Temperature Control

(The divider must be taken out.)

When the divider is removed, only the “” screen will display, and the “” screen will go off. At this time, the temperature control of the “” area controls the temperature of the entire refrigerator.


3. Save Temperature Settings

After setting the temperature, if there is no further operation on the panel within 3 seconds, the temperature display will stop flashing and save the currently set temperature. **NOTE:** When first used, the default setting for the refrigerator is 32°F (0°C).

Under the working state, long press the "  " and "  " buttons of the big zone for 3 seconds at the same time to switch between °C and 0 F.

NOTE: When switching between °C and 0 F, the displayed value is related to the set temperature. For example, when the temperature is set to 0 °C, the panel will display 32 °F when switched to Fahrenheit.



MAX/ECO Cooling Mode Switch

Under the working state, press the "  " button to select "MAX"(white light) or "ECO"(green light) mode. Once the cooling mode has been selected, the corresponding icon flashes for two seconds, after which this setting is saved and exited.

MAX mode refers to fast-cooling mode.

ECO mode refers to energy-saving mode.

H1/N2/L3 Car Battery Protection Mode Switch

Long press the "  " button to enter the battery protection level setting mode. Then short press the "  " button to select H1->N2->L3. After selecting a level, the display panel will flash for 3 seconds, and then it will automatically save the setting and exit.

Power-Off Memory Function

When the fridge is turned on again after a power failure, the settings will remain the same as the last time it was set.

Car Battery Protection(H1/N2/L3) Voltage Reference

The F40C4TMP fridge/freezer is equipped with a battery preservation monitor. When the vehicle battery's voltage drops to the below setting, the fridge compressor will automatically turn off. At this time, the "E1" error code will appear on the display panel. After the voltage returns to normal for 1 minute, the fridge will automatically enter the working state. This will protect the vehicle battery from over-discharge.

- When set to H1 (HIGH), the battery monitor will provide maximum protection for the vehicle battery running the fridge/freezer against over/full discharge.
- When you set it to L3(LOW), the battery monitor will allow the fridge/freezer to continually consume the car battery energy, even if the battery voltage is low and the car cannot be turned on.

Voltage	The Factory Default Battery Protection Level Is H		
	H1(High) level	N2(Medium) level	L3(Low) level
12V	11.3V OFF, 12.5V ON	10.1V OFF, 11.4V ON	9.6V OFF, 10.9V ON
24V	24.6V OFF, 26V ON	22.3V OFF, 23.7V ON	21.3V OFF, 22.7V ON

- When the fridge is powered by a vehicle starter battery, High Mode is recommended.
- When the fridge is powered by an additional battery(portable power station, solar panel), High Mode is recommended.

NOTE

After any power loss, the fridge will retain the last setting and will restart after 2 minutes when power is restored.

Troubleshooting and Error Code Problems

If an abnormal situation cannot be resolved through the below guidance, please contact professional customer service for assistance. You could email us via service@f40c4tmp.com.

• The Portable Refrigerator Does Not Work

Check whether the power is connected correctly or not (the plug is loose, positive and negative poles are reversed, etc.).

1. Check whether the refrigerator is turned on.
2. Check whether the cooling ventilation is normal.
3. Check whether the fuse is blown

• Low Cooling Efficiency

1. Check whether the fridge door is closed properly.
2. Check whether the door seal is damaged or deformed, resulting in unsealed.
3. Check whether the heat dissipation and ventilation are working normally.
4. Check whether the temperature setting is proper.

• Abnormal Noise

1. Check whether the refrigerator is placed stably.
2. Check whether the refrigerator hit the wall or other items.
3. Check whether the internal part in the compressor compartment is loose or fell off.

• Condensation of the Refrigerator Surface

When the ambient air humidity is > 75%, a slight frost will occur on the surface of the cabinet, which is a normal phenomenon.

NOTE

- CD It is a normal phenomenon that condensation or ice may appear on the door sealing gasket or the front of the case if the refrigerator is run for a long time. Please wipe the condensation or ice with a dry towel.
- It is normal for defrost water to escape from the internal compartment of the fridge if the power is off or if the fridge is left in standby mode for a long time. Please use a dry towel to clean the condensation from the fridge.
- **Error code definition and solutions**

Error Code	Error Type	Solutions
E1	The input voltage is too low	<p>CD Condition: Plug the 12v DC cord into the car cigarette lighter before the car engine starts.</p> <p>Solution: Plug the DC cord into the car cigarette lighter after the car engine starts for a while.</p> <p>@ Condition: The input voltage of the adapter is too low.</p> <p>Solution: Adjust the battery protection mode to Middle/Low level. If the fridge still does not work normally, please use a new adapter.</p>
E2	Fan problem	Solution: Please replace with a new fan.
E3	Compressor starts frequently resulting in input voltage failure	<p>CD Condition: E3 appears when using the DC cord.</p> <p>Solution: Shut down the refrigerator for 5 minutes, then please use the AC adapter to test it. If the refrigerator can be used normally without E3 code, please check your external power supply and refer to the E1 troubleshooting and solution.</p> <p>@ Condition: E3 appears when using the AC adapter.</p> <p>Solution: Please power off and unplug the refrigerator for 5 minutes and then restart it. If E3 still appears, please replace the compressor controller.</p>
E4	Compressor turbine speeds is too slow	Solution: Please power off the refrigerator for 1 hour, and then restart the refrigerator to see if E4 still appears. If so, please replace the compressor controller.
ES	Controller chip overheated	<p>Solution: Power off the refrigerator for 15 minutes. Then turn on the refrigerator to check whether the fan rotates. If the fan does not rotate, please replace the fan.</p> <p>Note: Reserve at least 6 inches for the cooling holes for ventilation.</p>
E6	NTC open circuit or short circuit	<p>Solution: Disassemble the control panel to check whether the NTC cord is loose.</p> <p>Note: The NTC cord is inside the control panel.</p>

NOTE

After any power loss, the fridge will retain the last setting and will restart after 2 minutes when power is restored.

Cleaning and Maintenance

Cleaning

- Unplug the fridge first to avoid electric shock.
- Use a wet cloth to clean the fridge and dry it.
- Do not soak the fridge in water and do not wash it directly.
- Never use abrasive products, detergents, or soaps to clean the fridge as these can damage it.

Storage

- If the fridge will not be in use for a long time, please store it properly.
- Turn off the power and remove the plug.
- Remove all the items stored in the fridge.
- Wipe off excess water from the fridge with a soft rag. Always make sure the inside of the fridge is dry before you store it.
- Place the fridge in a cool and dry place.
- Leave the lid slightly open to prevent odors from forming.

Defrosting

Frost may form inside the fridge or on the evaporator, and this can reduce the cooling capacity. Defrost the fridge promptly to avoid this.

- Disconnect the power supply of the fridge.
- Take out all the items.
- Keep the lid open.
- Wipe off the defrosted water.



DO NOT use hard, sharp, or pointed objects to remove the frost or use them to help you remove the frozen items. This may cause irreparable damage to the cooling system.

FAQ

Q1 Is there a cover for this refrigerator?

A1: Yes, there is. You could search for f40c4tmp 37/47/58 quart fridge cover on Amazon.

Q2: Does it come with a battery installed?

A2: No, this refrigerator does not come with a battery. Our batteries are sold separately.

Q3: Will it works standing on end?

A3: No, please do not run it on its side. This refrigerator contains refrigerant. If it runs on the side, the cooling efficiency will be affected and may cause malfunctions.

Q4: Can the fridge be used to sit on for extra seating?

A4: We do not recommend doing this. Because the perimeter of the refrigerator is filled with foam(for heat retention) rather than solid plastic, prolonged exposure to weight may deform it.

Q5: What's the ambient temperature range this can be safely used?

A5: Temperature range: 50°F~122 °F.

Q6: Does the fridge have to be plugged in for use?

A6: Yes, it must.

Q7: If the power is temporarily interrupted, will the unit automatically resume work when the power is restored(if nobody is there to turn it back on)?

A7: Yes, it will. This refrigerator has a power-off memory function, which means when the power is restored, the freezer will return to its previous working state.

Q8: Does the temperature fluctuate a lot?

A8: Not much, within the range of industry standards. The working mode of the refrigerator is cyclic work, that is, after the compressor reaches the set temperature, it stops working for about 10 minutes, and the temperature rises by about 3~5°C. Then, the refrigerator will work again for about 15 minutes and the temperature will drop to the set temperature again.

Q9: How long can you continuously run the unit without shutting it off? Will long-term use degrade the performance?

A9: As long as the power supply is maintained, our portable refrigerators can work 24 hours/day, just like home refrigerators.

Q 10: Is it normal for the refrigerator to have condensation water? Why?

A 10: Yes, it is normal. Because when the air humidity is greater than 75%, there may be slight condensation on the surface of the refrigerator; the higher the humidity, the higher the probability of occurrence, which is a normal phenomenon.

Q11: Will it keep ice cream frozen?

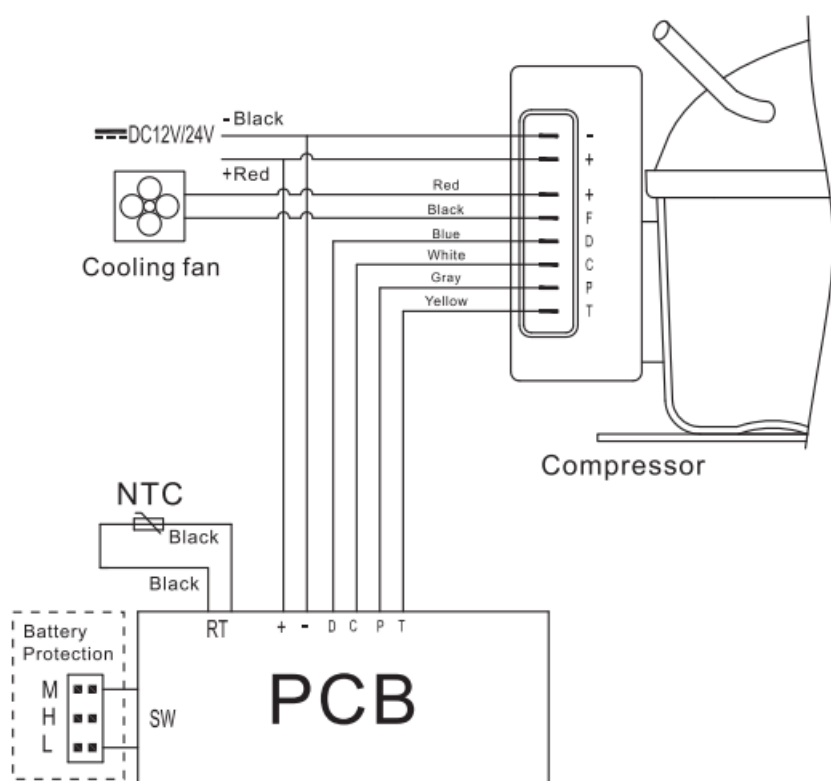
A 11: Yes. By setting the temperature below 0°F, you can keep the ice cream frozen.

Q12: Can I make ice with ice cube trays?

A 12: Yes. The internal temperature of this portable refrigerator is adjustable from -4 °F to 50°F. You can get ice cubes by setting the temperature below 32°F.

Q13: Can I get a replacement if my accessory is missing/broken?

Electrical Schematic



Warranty and Maintenance

Warranty

F40C4TMP Portable Car Refrigerators are covered by a 2-year warranty starting from the date of purchase on the F40C4TMP Amazon store, with the following exceptions:

- Man-made damage.
- Damage caused by force majeure such as earthquake, conflagration, etc.
Damage caused by improper use or violation of this instruction.
- Damage or malfunction caused by disassembly.



24-month Limited Warranty



Lifetime Technical Support

Customer Service

If you encounter any difficulties in using the product or have any questions about it, please feel free to contact us via:



service@f40c4tmp.com



4086887296

Mon to Fri 9:00am-17:00pm(PST)



Message us through “Ask a question” in F40C4TMP Amazon store



www.f40c4tmp.com



Documents / Resources



[F40C4TMP F40C4TMP 12 Volt Portable Refrigerator](#) [pdf] User Manual
F40C4TMP, F40C4TMP 12 Volt Portable Refrigerator, 12 Volt Portable Refrigerator, Portable Refrigerator, Refrigerator

References

- [User Manual](#)

Manuals+.