

## Setpower FC20

# Setpower FC20 Portable 12V Refrigerator User Manual

Brand: Setpower | Model: FC20

## INTRODUCTION

The Setpower FC20 Portable 12V Refrigerator is designed for efficient cooling and freezing on the go. This electric cooler offers a temperature range from -4°F to 68°F, capable of fast cooling to 32°F within 15 minutes. It operates with low power consumption and features a quiet compressor, making it suitable for various outdoor activities such as camping, travel, fishing, picnics, and road trips. Its compact design and multiple power supply options provide versatility for use in vehicles like SUVs, trucks, RVs, campers, Jeeps, vans, and boats, as well as at home.

## SAFETY INFORMATION

Please read all safety instructions carefully before operating the Setpower FC20 Portable Refrigerator to ensure safe and proper use. Failure to follow these instructions may result in electric shock, fire, and/or serious injury.

- Ensure the refrigerator is placed on a stable, level surface to prevent tipping.
- Do not block ventilation openings. Maintain adequate space around the unit for proper airflow.
- Avoid exposing the unit to direct sunlight or heat sources, as this can affect cooling performance and efficiency.
- Do not immerse the refrigerator in water or other liquids.
- Use only the provided power cords (DC and AC) with the unit.
- Always disconnect the power supply before cleaning or performing any maintenance.
- Keep out of reach of children.
- The unit is designed to operate at up to a 40° tilt angle, but prolonged operation at extreme angles should be avoided.

## PACKAGE CONTENTS

Upon opening the package, verify that all the following items are included:

- 1 x Setpower FC20 Portable Refrigerator
- 1 x DC Power Cord (12/24V)
- 1 x AC Power Adapter (110/240V)

- 1 x Cup Holder
- 1 x Umbrella Holder
- 1 x Bottle Opener
- 1 x User Manual



Image: The Setpower FC20 portable refrigerator shown with its lid open, filled with fruits and vegetables, alongside the included cup holder, umbrella holder, and bottle opener accessories.



Image: A visual representation of the package contents, including the portable freezer, DC cord, AC adapter, cup holder, umbrella holder, bottle opener, and user manual.

## SETUP

### Power Connection

The Setpower FC20 can be powered by both DC (12V/24V) and AC (110V/240V) power sources. Choose the appropriate power cord for your intended use.

- **DC Power (12V/24V):** Connect the DC power cord to the refrigerator's DC input port and then to your vehicle's 12V or 24V power outlet (e.g., cigarette lighter socket).
- **AC Power (110V/240V):** Connect the AC adapter to the refrigerator's AC input port, then plug the adapter into a standard wall outlet.

# Sleek and Space-Saving



Image: Diagram illustrating various power supply options for the Setpower FC20, including power station, solar panel, home outlet (110-240V), 12V car, and 24V truck connections.

## Removable 2-Way Door

The refrigerator features a removable lid that can be opened from either side, providing convenient access to contents. To change the door's opening direction, carefully detach the lid and reattach it to hinge on the opposite side.



Image: Illustration showing the removable 2-way door feature of the Setpower FC20, demonstrating how the lid can be reoriented to open from either the left or right side.

## Safety Tie-down Points

The FC20 is equipped with four expansion holes on both sides, allowing for secure fastening within a vehicle using ropes or straps (not included). This prevents movement during travel, especially on bumpy roads or inclines.



Image: A diagram showing the Setpower FC20 refrigerator tilted at a 40-degree angle, highlighting the four tie-down points on its sides for secure placement in a vehicle.

## OPERATING INSTRUCTIONS

### Control Panel Overview

The control panel on the top of the refrigerator allows you to manage settings. It includes buttons for temperature adjustment, power, and displays for temperature, voltage, and battery protection level.



Image: Close-up view of the Setpower FC20 control panel, indicating buttons for decreasing temperature, increasing temperature, on/off, battery protection level, voltage, and temperature display.

The unit has a memory function that automatically reverts to the last temperature setting when reconnected to power.

### Temperature Control and Fast Cooling

The Setpower FC20 can cool rapidly. It can reach 32°F (0°C) from 77°F (25°C) in approximately 15 minutes and achieve its lowest temperature of -4°F (-20°C) in about an hour. The adjustable temperature range is from -4°F (-20°C) to 68°F (20°C).

## Safety Tie-down Points

**4 holes** are located on both sides of the refrigerator, which can be firmly fixed to the car when used with ropes.

\* The ropes are not included.



Image: A graph showing the Setpower FC20's quick cooling capability, reaching 32°F in 15 minutes and -4°F in 60 minutes from an initial temperature of 77°F.

Use the '+' and '-' buttons on the control panel to set your desired temperature. The display will show the current internal temperature.



Battery Protection Levels

The refrigerator features three battery protection levels (H - High, M - Medium, L - Low) to prevent your vehicle's battery from draining. Select the appropriate level based on your battery's condition and usage.

Battery Protection Voltage Settings

Voltage	Mode	Cut Out (V)	Cut In (V)
12V DC	High	11.1V	12.4V
	Medium	10.4V	11.7V
	Low	9.6V	10.9V
24V DC	High	24.3V	25.7V
	Medium	22.8V	24.2V
	Low	21.3V	22.7V

Image: A table detailing the cut-out and cut-in voltages for High, Medium, and Low battery protection modes for both 12V DC and 24V DC power sources.

When the measured DC voltage drops below the "Cut Out" value, the compressor will shut off to prevent battery depletion. It will resume operation once the voltage rises above the "Cut In" value.

Low Noise Operation

The Setpower FC20 operates quietly, with noise levels below 42dB, ensuring it does not disturb your rest or activities.



Image: A graphic comparing the noise level of the Setpower FC20 refrigerator (42dB) to car driving (85-70dB), normal chat (70-43dB), and a whisper (40-20dB), illustrating its quiet operation.

MAINTENANCE

Cleaning

- Always unplug the unit before cleaning.
- Clean the interior and exterior surfaces with a damp cloth and mild detergent. Avoid abrasive cleaners or solvents.
- Ensure the unit is completely dry before reconnecting to power.
- Periodically clean the ventilation grilles to prevent dust buildup, which can affect performance.

Storage

When storing the refrigerator for extended periods, ensure it is clean and dry. Leave the lid slightly ajar to prevent odors and mold growth.

TROUBLESHOOTING

If you encounter issues with your Setpower FC20, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Refrigerator not turning on	No power supply; Loose connection; Blown fuse.	Check power source and connections; Replace fuse if necessary.
Not cooling effectively	Blocked ventilation; Too much content; High ambient temperature; Door not sealed properly.	Ensure clear ventilation; Do not overfill; Operate in cooler environment if possible; Check door seal.
Displaying "E1" error	Low voltage battery protection activated.	Lower the battery protection level (L mode) or recharge the battery.
Unusual noise	Unit not level; Loose components.	Ensure unit is on a stable, level surface; Check for any loose parts.

If the problem persists after attempting these solutions, please contact Setpower customer support.

SPECIFICATIONS

Feature	Detail
Brand	Setpower
Model	FC20
Capacity	21 Quarts (20 Liters)
Temperature Range	-4°F to 68°F (-20°C to 20°C)
Power Consumption (Average)	55W
Input Voltage	12V/24V DC, 110V/240V AC
Noise Level	Below 42dB
Item Weight	24 Pounds
Product Dimensions (L x W x H)	24 x 13 x 13 inches
Number of Doors	1 (Removable 2-Way)
Special Features	Portable, Fast Cooling, 3-Level Battery Protection

# 15 Mins Fast Cooling

Consumes **less than 1kw.h** Per Day



## 3-Year

Compressor Guarantee



Image: A visual representation of the Setpower FC20's 21QT capacity, showing it can hold 28 cans of 355ml cola, and its external dimensions of 24.2" x 13.1" x 13.0".

## WARRANTY AND SUPPORT

Setpower offers comprehensive support for your FC20 Portable Refrigerator:






- **Compressor Warranty:** 3 years of technical support on the compressor.
- **Other Parts Warranty:** 1 year warranty for all other parts.

For any product questions, technical assistance, or warranty claims, please do not hesitate to contact Setpower customer support. Refer to the contact information provided in the user manual included with your product or visit the official Setpower website.

You can also visit the official Setpower store on Amazon for more information:[Setpower Store](#)



## Related Documents - FC20

	<p><a href="#">SetPower FC15/FC20 Portable Refrigerator User Manual   Operation &amp; Maintenance Guide</a></p> <p>Comprehensive user manual for SetPower FC15 and FC20 portable refrigerators/freezers. Learn about safety instructions, data specifications, operation, troubleshooting, and warranty information for your SetPower cooler.</p>
	<p><a href="#">SetPower FC Series Portable Fridge Freezer User Manual</a></p> <p>This user manual provides comprehensive instructions for operating and maintaining the SetPower FC Series portable fridge freezers, including models FC12 and FC20. It covers safety information, technical specifications, operational guidance, troubleshooting, and warranty details.</p>
	<p><a href="#">SetPower FC15/20 Portable Refrigerator/Freezer User Manual</a></p> <p>Comprehensive user manual for the SetPower FC15 and FC20 portable refrigerators and freezers, covering safety instructions, operation, troubleshooting, maintenance, and warranty information.</p>
	<p><a href="#">SetPower TC35 Portable Fridge Freezer User Manual</a></p> <p>User manual for the SetPower TC35 portable fridge freezer, covering safety information, getting started, operation, filling, defrosting, maintenance, cleaning, suggestions, general safety messages, notices, faults, and warranty &amp; return information.</p>
	<p><a href="#">SetPower TC65/TC75 Portable Fridge Freezer User Manual</a></p> <p>Comprehensive user manual for SetPower TC65 and TC75 portable fridge freezers, covering safety instructions, specifications, operation, troubleshooting, and warranty information.</p>

<div>Questions More people are Interested In(FC Series) Q: How much noise does it make? A: After our laboratory test, the compressor running noise of the portable refrigerator is below 40dB, which will not disturb normal rest, study and work. Q: What are the inside measurements of the cooling box used? A: You can find the inside measurements of the cooling box used in the product page. The inner box size (L*W*H): 13.8" x 9.6" x 9.3" (FC12) can hold 17 Q: Can you make black ice? A: Yes, you can adjust the temperature of the car refrigerator to the lowest Q: How much noise does it make? Fast? Fast? Compressor? A: After our laboratory test, the compressor running noise of the portable refrigerator is below 40dB, which will not disturb normal rest, study and work. Q: What is the length of the power cord? (DC cord) A: The length of DC cable which is bundled with the package is 3.3 feet. If it is not long enough for your daily use, you could purchase an 12 feet extended cable. Q: What solar panel and power bank does it need for this? A: Please make sure the power bank 1. is no more less than 21000mAh 2. output Q: Would this fridge be suitable to sit on the floor of my passenger seat in the A: The outside dimensions of the setpower car refrigerator are 22.4"x12.6"x8.8" (FC12) and 23.5"x12.6"x10" (FC20), which you can refer to. Q: Does this come with power cords? A: It comes with a DC cord to plug into a cigarette lighter, 12Vdc and a AC Q: Could this run off solar panels? A: The setpower portable refrigerator can be connected with solar cells and solar panels. Regarding the power consumption time, this depends on the rated Q: Is it sturdy enough to sit on? A: Yes, it is sturdy enough that an adult sit directly on it.</div>	<div><a href="#">SetPower Portable Refrigerator FC12/FC20 FAQ</a> Find answers to common questions about SetPower portable refrigerators, including models FC12 and FC20. Learn about dimensions, power options, noise levels, and usage.</div>
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Documents - Setpower – FC20



[SetPower FC Series Portable Fridge Freezer User Manual](#)

This user manual provides comprehensive instructions for operating and maintaining the SetPower FC Series portable fridge freezers, including models FC12 and FC20. It covers safety information, technical specifications, operational guidance, troubleshooting, and warranty details.

lang:en score:37 filesize: 3.18 M page\_count: 8 document date: 2020-05-27



[SetPower Portable Refrigerator FC12/FC20 FAQ](#)

Find answers to common questions about SetPower portable refrigerators, including models FC12 and FC20. Learn about dimensions, power options, noise levels, and usage.

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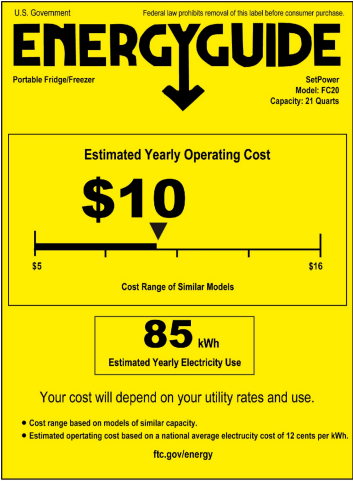
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