

Setpower RF25

Setpower RF25 Portable Electric Cooler User Manual

Model: RF25

INTRODUCTION

The Setpower RF25 is a versatile 27-quart portable electric cooler designed for vehicles, camping, road trips, and other outdoor adventures. It functions as both a refrigerator and a freezer, offering efficient cooling and convenient control options. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your RF25 cooler.



Figure 1: Setpower RF25 Portable Electric Cooler with contents and app control demonstration.

PACKAGE CONTENTS

Before setup, ensure all components are present:

- Setpower RF25 Portable Electric Cooler
- 12V/24V DC Power Cord
- 100-240V AC Adapter
- Built-in Ice Pack (also functions as a divider)
- User Manual

SETUP

Follow these steps for initial setup:

1. **Unpacking:** Carefully remove the cooler and all accessories from the packaging. Inspect for any

damage.

2. **Placement:** Place the cooler on a stable, flat surface. Ensure adequate ventilation around the unit, especially the compressor area. Avoid placing it in direct sunlight or near heat sources.
3. **Power Connection:**
 - **DC Power (12V/24V):** Connect the DC power cord to the cooler's DC input port and then to your vehicle's 12V/24V outlet (e.g., cigarette lighter socket).
 - **AC Power (100-240V):** Connect the AC adapter to the cooler's AC input port, then plug the adapter into a standard wall outlet.
4. **Initial Cooling:** For optimal performance, it is recommended to pre-cool the unit for at least 30 minutes before loading it with contents.



Figure 2: The RF25 cooler can be powered via solar panel, AC adapter, or DC car cord, offering versatile power options.

OPERATING INSTRUCTIONS

The Setpower RF25 offers flexible temperature control and operating modes.

Control Panel Operation

- **Power On/Off:** Press the power button to turn the unit on or off.
- **Temperature Adjustment:** Use the '+' and '-' buttons to set the desired temperature. The temperature range is from 68°F (20°C) down to -4°F (-20°C).
- **Mode Selection (ECO/MAX):**
 - **ECO Mode:** Energy-saving mode, consuming approximately 28W. Ideal for maintaining temperature over longer periods.
 - **MAX Mode:** Fast cooling mode, consuming approximately 40W. Use this mode for rapid temperature reduction.



ECO MODE

≤ 28w
Energy Saving

Less than 1 kWh/day

MAX MODE

≤ 40w
Fast Cooling

Less than 1 kWh/day

*Data based on 77°F ambient temperature and empty box conditions

Figure 3: The RF25 features ECO mode for energy saving and MAX mode for fast cooling.

App Control

Control your RF25 remotely via the dedicated smartphone app:

1. **Download App:** Scan the QR code on the cooler or refer to the user manual for app download instructions.
2. **Pairing:** Ensure Bluetooth is enabled on your phone and the cooler is powered on. Open the app and

follow the on-screen instructions to pair your device.

3. **Remote Functions:** Once connected, you can monitor the current temperature, adjust settings (temperature, ECO/MAX mode), and switch between refrigerator and freezer functions directly from your phone.



APP Control

Note:

Download the app referring to the user manual. Controlling, setting, checking the temps / status all from your phone.

Figure 4: The Setpower RF25 can be conveniently controlled via a smartphone app, allowing remote temperature adjustments and mode changes.

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Video 1: Demonstration of how to use the Setpower app to control the cooler's temperature and settings.

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Video 2: A detailed guide on controlling the Setpower 12V Refrigerator using its dedicated mobile application.

Refrigerator and Freezer Functionality

The RF25 can operate as either a refrigerator (32°F to 68°F) or a freezer (-4°F to 32°F). This allows for versatile storage of various items.



Figure 5: The RF25 can be set to function as either a refrigerator for fresh produce or a freezer for frozen goods like meat and ice cream.

Built-in Ice Pack / Divider

The unique built-in ice pack serves a dual purpose: it acts as a divider to organize contents and provides up to 50 hours of cooling retention during power outages, ensuring food stays cool even when unplugged.

Cool even at Car Fridge Power outage

Built-in Ice Pack



*Data based on 77°F, Completely frozen ice pack with empty box conditions.

Figure 6: The built-in ice pack helps maintain coolness for up to 50 hours, providing extended cooling during power interruptions.

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Video 3: Instructions on how to utilize the ice box feature of the Setpower cooler.

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Video 4: Overview of the RF20/25's 50-hour backup cooling design, highlighting its efficiency during power outages.

Battery Protection

The RF25 features a 3-level battery protection system (High, Medium, Low) to prevent your vehicle's battery from draining completely. You can select the appropriate level based on your power source and usage needs.

Anti-shake Design

4 Holes of the both sides can be fixed to the car with ropes. Even at 40° off-road, SetPower Car Fridge can use normally.

* The ropes are not included.



Figure 7: The cooler includes a 3-level battery protection system to safeguard your power source.

MAINTENANCE

Proper maintenance ensures the longevity and efficiency of your Setpower RF25 cooler.

- **Cleaning:**
 - Clean the interior and exterior with a damp cloth and mild detergent. Do not use abrasive cleaners.
 - Ensure the unit is unplugged before cleaning.
 - Regularly clean the ventilation grilles to prevent dust buildup, which can affect cooling efficiency.
- **Defrosting:** The unit features automatic defrost. If excessive frost builds up, manually defrost by turning off the unit and leaving the lid open until the frost melts.
- **Storage:** When not in use for extended periods, ensure the cooler is clean and dry. Store it in a cool, dry place with the lid slightly ajar to prevent odors.

TROUBLESHOOTING

Refer to the table below for common issues and their solutions:

Problem	Possible Cause	Solution
Unit not powering on	No power supply; loose connection; low battery voltage.	Check power cord connection; ensure power source is active; adjust battery protection level if using DC power.
Insufficient cooling	Poor ventilation; overloaded; high ambient temperature; lid not sealed properly.	Ensure clear ventilation; do not overload; pre-cool items; check lid seal.
Unusual noise	Unit not level; fan obstruction; compressor vibration.	Place on a level surface; check for obstructions; normal compressor operation may produce slight noise.
App connection issues	Bluetooth off; app not updated; cooler not in pairing mode.	Ensure Bluetooth is on; update app; restart cooler and app.

For error codes (E1-E6, LL, HH), refer to the warning label inside the cooler's lid or contact customer support.

SPECIFICATIONS

Feature	Detail
Brand	Setpower
Model	RF25
Capacity	27 Quarts (25 Liters)
Dimensions (L x W x H)	24.3 x 13.1 x 14.3 inches
Weight	23.5 lbs
Temperature Range	-4°F to 68°F (-20°C to 20°C)
Power Input	12V/24V DC, 100-240V AC
Power Consumption (ECO Mode)	28W
Power Consumption (MAX Mode)	40W
Compressor	Smartelev (Self-developed)
Special Features	App Control, Built-in Ice Pack, 3-Level Battery Protection, Anti-shake Design



Figure 8: Detailed dimensions and capacity of the 27-quart RF25 cooler.

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Video 5: Visual comparison of the Setpower RF series sizes, including the RF25.

WARRANTY AND SUPPORT

SetPower offers comprehensive support for your RF25 cooler:

- **Compressor Warranty:** 3 years of technical support on the compressor.
- **Other Parts Warranty:** 1 year maintenance on all other parts.
- **Customer Support:** For any inquiries or technical assistance, please refer to the contact information provided in your product manual or visit the official Setpower website.