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## ENGEL MT45F-U1-P

# Engel MT45F-U1-P Platinum Series Portable AC/DC Fridge/Freezer Instruction Manual

Model: MT45F-U1-P

## INTRODUCTION

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Thank you for choosing the Engel MT45F-U1-P Platinum Series Portable AC/DC Fridge/Freezer. This unit is designed for reliable and efficient cooling or freezing, whether you are on the road, on the water, or at home. Featuring a highly efficient Engel Swing Motor Compressor, digital temperature control, and automatic voltage selection, this appliance offers convenience and performance. This manual provides essential information for the safe and effective operation, setup, and maintenance of your new fridge/freezer.



Figure 1: Engel MT45F-U1-P Portable Fridge/Freezer with lid open.

## SAFETY INFORMATION

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Please read all safety instructions carefully before operating the appliance. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Ensure the power source matches the voltage requirements of the unit (12V/24V DC or 120V AC).
- Do not operate the appliance with a damaged power cord or plug.
- Keep ventilation openings clear of obstructions to ensure proper airflow.
- Avoid placing the unit in direct sunlight or near heat sources.
- Do not immerse the appliance in water or expose it to excessive moisture.
- Always disconnect power before cleaning or performing maintenance.
- This appliance contains HFC-134a refrigerant. Servicing should only be performed by qualified personnel.

## WHAT'S IN THE BOX

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Upon unpacking, please verify that all the following components are included:

- MT45F-U1-P Fridge Freezer Unit
- AC 120V Power Cord

- DC 12V/24V Cigarette Lighter Adapter Cord
- Owners Manual (this document)

## SETUP

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### 1. Placement

Place the fridge/freezer on a stable, level surface. The unit is designed to operate efficiently even on inclines up to 30 degrees off level, making it suitable for various outdoor and vehicle environments. Ensure adequate ventilation around the unit, especially near the side vents, to allow for proper heat dissipation.

### 2. Power Connection

The MT45F-U1-P supports both AC and DC power sources with automatic voltage selection.

- **For AC (120V) Operation:** Connect the supplied AC 120V power cord to the unit's AC input and then to a standard 120V wall outlet.
- **For DC (12V/24V) Operation:** Connect the supplied DC 12V/24V cigarette lighter adapter cord to the unit's DC input and then to your vehicle's 12V or 24V accessory socket.

The unit will automatically detect and switch between AC and DC power sources when both are connected, prioritizing AC power if available.

### 3. Initial Use

Before first use, it is recommended to clean the interior of the unit with a damp cloth. Allow the unit to run for at least 30 minutes to reach the desired temperature before loading it with contents.

## OPERATING INSTRUCTIONS

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### 1. Control Panel Overview



Figure 2: Digital control panel with LED display.

The MT45F-U1-P features a user-friendly digital control panel with an LED display for precise temperature management.

- **Temperature Dial:** Use the rotary dial to select your desired temperature setting, ranging from cooling to freezing.
- **LED Display:** Shows the current internal cabinet temperature.
- **Mode Button:** (If applicable) Press to cycle through different operating modes or display options.
- **Select Button:** (If applicable) Used to confirm selections or adjust settings.

## 2. Setting Temperature

Turn the temperature dial to the desired setting. The LED display will show the internal temperature. The unit can operate approximately 80 degrees Fahrenheit below ambient temperature, allowing for effective refrigeration or freezing even in warm conditions.

## 3. Battery Monitor

The integrated battery monitor helps protect your vehicle's battery from excessive discharge. Refer to the specific instructions in the full owner's manual for details on adjusting battery cut-off settings, if available.

# MAINTENANCE

## 1. Cleaning

Regular cleaning ensures optimal performance and hygiene.

- Always disconnect the power supply before cleaning.
- Clean the interior with a mild detergent and a damp cloth. Avoid abrasive cleaners or solvents.
- Wipe down the exterior with a soft, damp cloth.
- Ensure ventilation grilles are free from dust and debris. Use a soft brush or vacuum cleaner if necessary.

## 2. Defrosting

The Engel MT45F-U1-P features an automatic defrost system. Under normal operating conditions, manual defrosting is generally not required. If a significant layer of ice builds up, disconnect the power, empty the contents, and allow the ice to melt naturally. Wipe away any melted water before reconnecting power.

# TROUBLESHOOTING

If you encounter issues with your fridge/freezer, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit not cooling	No power, incorrect temperature setting, poor ventilation, overloaded.	Check power connections, adjust temperature, ensure clear vents, reduce contents.
Unit is too loud	Normal compressor operation, unit not level, fan obstruction.	Ensure unit is on a stable, level surface. Check for obstructions around the fan. Some compressor noise is normal.

Problem	Possible Cause	Solution
Temperature display is inaccurate	Sensor issue, extreme ambient temperature.	Contact customer support if the issue persists after checking ambient conditions.
Unit not turning on	Power cord loose, blown fuse in vehicle, battery protection activated.	Check all power connections, inspect vehicle fuse, verify battery voltage.

For issues not listed here, or if solutions do not resolve the problem, please contact Engel customer support.

## SPECIFICATIONS



Figure 3: Product dimensions.

Feature	Detail
Model Name	Engel MT45F-U1-P Platinum Series 12V/24V/120V top-opening portable AC/DC Fridge/Freezer
Model Number	MT45F-U1-P
Product Dimensions (D x W x H)	31"D x 20"W x 26"H

Feature	Detail
Item Weight	66 Pounds
Capacity	43 Quarts (18.4 Gallons Fresh Food Capacity)
Power Input	12V/24V DC, 120V AC
Compressor Type	Swing Motor
Refrigerant	HFC-134a
Defrost System	Automatic
Adjustable Temperature Control	Yes
Incline Operation	Up To 30° Off Level
Material	Galvanized Steel (Door)
Color	Platinum

## WARRANTY INFORMATION

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The Engel MT45F-U1-P Portable AC/DC Fridge/Freezer comes with a **3-year warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims. For full terms and conditions, refer to the official warranty document included with your product or visit the Engel website.

## CUSTOMER SUPPORT

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For technical assistance, warranty claims, or general inquiries, please contact Engel customer support:

- **Website:** Visit the official ENGEL website for support resources and contact information.
- **Phone:** Refer to the contact details provided in your product packaging or on the official website.

When contacting support, please have your model number (MT45F-U1-P) and purchase date ready.