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ENGEL MT27F-U1

Instruction Manual

ENGEL MT27 22 QUART PORTABLE TOP OPENING FRIDGE-FREEZER

Product Overview

The ENGEL MT-series fridge/freezer is designed for versatility, capable of keeping contents fresh or frozen in various environments. Its highly efficient Engel Swing Motor Compressor ensures reliable performance with low power consumption, typically drawing around 1 to 2 Amps per hour. This unit operates on both 12V/24V DC and 110V/120V AC power, making it suitable for use on the road, on water, or at home.

- **100% CFC-Free Refrigerant Gas:** Environmentally friendly cooling.
- **12/24V DC and 110/120V AC Compatible:** Automatic switching with AC priority for seamless power transition.
- **Efficient "Swing Motor" Compressor:** Engineered for vibration resistance, ensuring durability in extreme conditions.
- **Incline Operation:** Functions effectively at angles up to 30° off level.
- **Variable Temperature Control:** Allows precise adjustment for refrigeration or freezing.



Figure 1: The ENGEL MT27 Portable Fridge-Freezer in its closed position, showcasing its compact and robust design.

Setup

Unpacking and Inspection

Carefully remove the fridge-freezer from its packaging. Inspect the unit for any signs of damage that may have occurred during transit. Retain all packaging materials for future transport or if the unit needs to be returned for service.

Placement

Place the unit on a stable, level surface. Ensure adequate ventilation around the compressor area, typically located on the side with the vents. Avoid placing the unit in direct sunlight or near heat sources to maximize efficiency. The unit is designed to operate on inclines up to 30 degrees, making it suitable for various mobile applications.



Figure 2: Detailed dimensions of the ENGEL MT27, illustrating its compact footprint for easy placement in vehicles or small spaces. Dimensions are approximately 21.2 inches (D) x 12 inches (W) x 18.2 inches (H).

Power Connection

Connect the appropriate power cord (12V/24V DC or 110V/120V AC) to the unit's power input. Plug the other end into a suitable power source. The unit features automatic switching with AC priority, meaning it will automatically switch to AC power if both DC and AC sources are connected and AC is available.

Operating Instructions

Initial Power-Up

Once connected to power, the unit will begin to cool. Allow several hours for the internal temperature to stabilize before loading contents, especially if freezing is desired.

Temperature Control

The ENGEL MT27 features variable temperature control. Use the control knob or digital interface (if applicable) to set the desired temperature. Lower settings will result in colder temperatures, suitable for freezing, while higher settings maintain refrigeration temperatures.



Figure 3: The interior of the ENGEL MT27, showing its spacious 22-quart capacity and removable wire basket for organized storage.

Loading Contents

For optimal performance, load contents efficiently, avoiding overpacking. Ensure that air can circulate around items for even cooling. The unit's top-opening design helps minimize cold air loss when accessing contents.

Maintenance

Cleaning

Regularly clean the interior and exterior of the fridge-freezer with a mild detergent and warm water. Do not use abrasive cleaners or solvents. Ensure the unit is unplugged before cleaning. Wipe dry thoroughly after cleaning.

Condenser Coil Cleaning

Periodically inspect and clean the condenser coils, typically located behind the side vents. Dust and debris can accumulate, reducing efficiency. Use a soft brush or vacuum cleaner to gently remove any buildup.

Storage

When storing the unit for extended periods, ensure it is clean and dry. Leave the lid slightly ajar to prevent odors and mildew formation. Store in a cool, dry place away from direct sunlight.

Troubleshooting

- **Unit not cooling:**

- Check power connection and ensure the outlet is functional.
- Verify the temperature setting is appropriate.
- Ensure adequate ventilation around the unit.

• **Excessive noise or vibration:**

- Ensure the unit is on a stable, level surface.
- Check for any loose components or obstructions around the compressor.
- The "Swing Motor" compressor is designed to be quiet, but minor operational sounds are normal.

• **Frost buildup:**

- This unit features automatic defrost. If excessive frost occurs, ensure the lid seal is intact and not damaged.
- Avoid leaving the lid open for extended periods.

For persistent issues not covered here, please contact ENGEL customer support.

Specifications

Feature	Detail
Brand	ENGEL
Model Number	MT27F-U1
Capacity	21 Liters (approx. 22 Quart)
Item Weight	17.5 Kilograms (38.5 pounds)
Product Dimensions	21.2"D x 12"W x 18.2"H
Power Input	12V/24V DC, 110V/120V AC
Compressor Type	Swing Motor Compressor
Refrigerant	HFC-134a (CFC-Free)
Defrost System	Automatic
Material Type	Plastic
Color	Grey
Certification	UL

Warranty and Support

For detailed warranty information and customer support, please refer to the official ENGEL website or the documentation provided with your purchase. Keep your proof of purchase for warranty claims.

Contact Information: Please visit the [ENGEL Store on Amazon](#) or the official ENGEL website for the most current support details.

