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Techomey HSG-40B2U(A)-FBA

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Model: HSG-40B2U(A)-FBA

INTRODUCTION

This manual provides essential information for the safe and efficient operation of your Techomey 1.4 Cu.Ft 3-Way Propane Refrigerator. Designed for versatility, this compact absorption refrigerator can be powered by 12V DC, 110V AC, or LPG propane gas, making it ideal for various applications including RVs, semi-trucks, campers, and off-grid cabins. Please read these instructions thoroughly before installation and use.

SAFETY INFORMATION

WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause injury or property damage. Read the installation, operating, and maintenance instructions thoroughly before installing or servicing this equipment.

- Ensure adequate ventilation when operating on propane gas to prevent carbon monoxide buildup.
- Always check for gas leaks after connecting or disconnecting propane tanks.
- Keep flammable materials away from the refrigerator, especially when operating on gas.
- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- Ensure electrical connections are secure and meet local codes.
- The gas pressure for operation is 2.8Kpa (28mbar).

PRODUCT OVERVIEW AND FEATURES

The Techomey 1.4 Cu.Ft 3-Way Propane Refrigerator offers reliable cooling with multiple power options and user-friendly features.

Key Features:

- **3-Way Power:** Operates on 12V DC, 110V AC, or LPG propane gas for maximum flexibility.
- **Temperature Range:** Maintains temperatures between 32-50°F (0-10°C).
- **Compact Design:** Dimensions of 18.1"W x 18.3"D x 22.2"H, making it suitable for small spaces.
- **Quiet Operation:** Utilizes an advanced absorption cooling system, resulting in silent operation (0.01 Decibels) with no moving parts or freon.
- **Energy Efficient:** Low energy consumption with approximately 0.34kg/day gas and 229 kWh/year electricity.
- **Adjustable Interior:** Features adjustable shelves and door drawers with fixed baffles to secure items during travel.
- **Reversible Door:** The door can be reversed to open from either the left or right side to suit your installation needs.

- **Automatic Defrost:** Simplifies maintenance by automatically defrosting.

Visual Overview:



Figure 1: Techomey 1.4 Cu.Ft 3-Way Propane Refrigerator with interior contents.

3 WAY POWER



AC 110V



DC 12V



Propane LPG Gas

Figure 2: Rear view illustrating the 3-way power connections.



Figure 3: Refrigerator temperature range for optimal cooling.



Figure 4: Product dimensions for installation planning.



Figure 5: Versatile applications for the 3-Way Refrigerator.



Figure 6: Silent operation for undisturbed environments.

SETUP AND INSTALLATION

Proper setup is crucial for the performance and safety of your refrigerator. Ensure the unit is placed on a stable, level surface.

Placement and Ventilation:

Always ensure good ventilation around the refrigerator, especially when operating on propane. The rainproof and dustproof cover is designed for outdoor protection, but proper airflow is still necessary.

Connecting Power Sources:

- **LPG Propane:** Connect the included gas hose and regulator to a propane tank and the refrigerator's gas inlet. Ensure all connections are tight to prevent leaks.
- **12V DC:** For RVs or semi-trucks, connect the 12V DC power cable to a compatible power source.
- **110V AC:** Plug the refrigerator into a standard 110V AC outlet for household or shore power use.

Door Reversal:

The refrigerator door can be reversed to open from the opposite side. Refer to the detailed diagrams in the printed manual for specific instructions on switching hinge pieces and installing the door pin.

Setup Demonstration:

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Video 1: Overview of Smad 3-Way Propane Refrigerator features and power options.

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Video 2: Demonstration of 3-Way RV Refrigerator operation with LPG, 110V, and 12V power.

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Video 3: Detailed guide on connecting and operating a 3-Way Propane Refrigerator off-grid.

OPERATING INSTRUCTIONS

The control panel is located at the top of the refrigerator and features a transparent protective cover.



Figure 7: Control panel for easy operation.

Switching Power Sources:

1. Use the rotary switch to select your desired power source: **GAS**, **OFF**, **DC12**, or **AC**.
2. For gas operation, ensure the gas supply is open.

Gas Ignition Procedure:

1. Turn the rotary switch to **GAS**.
2. Press and hold the safety valve button for 10-15 seconds.
3. While holding the safety valve button, press the battery switch (ignitor button) repeatedly until the flame indicator turns green, indicating successful ignition.
4. Release the safety valve button. The flame should remain lit.

Temperature Control:

Adjust the manual electric thermostat knob to set the desired cooling level. The temperature range is 32-50°F (0-10°C).

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your refrigerator.

Cleaning:

- Unplug the refrigerator and turn off the gas supply before cleaning.
- Clean the interior with a mild detergent and warm water. Avoid abrasive cleaners.
- Wipe down the exterior with a soft, damp cloth.
- Periodically clean the flue tube using the provided flue tube scrubber to ensure efficient gas operation.

Defrosting:

This refrigerator features automatic defrost. However, if excessive ice buildup occurs, manually defrost the unit by turning it off and allowing the ice to melt naturally. Place towels to absorb water.

Ventilation:

Regularly check that the ventilation openings are clear and unobstructed, especially when the unit is installed in an enclosed space like an RV or cabinet. Proper airflow is essential for efficient operation and safety.

TROUBLESHOOTING

If you encounter issues with your refrigerator, consult the following common problems and solutions before contacting support.

Problem	Possible Cause	Solution
Refrigerator not cooling	Incorrect power source selected, power supply issue, poor ventilation.	Verify the rotary switch setting. Check electrical connections or gas supply. Ensure adequate airflow around the unit.
Gas flame goes out	Insufficient gas pressure, strong wind, clogged flue tube.	Check gas tank level and connections. Shield the unit from strong winds. Clean the flue tube. Re-ignite following the operating instructions.
Items freezing on lowest setting	Thermostat set too low, ambient temperature too cold.	Adjust the thermostat to a warmer setting. If ambient temperature is very low, the unit may overcool.
Noisy operation	Unit is not level, internal components vibrating.	Ensure the refrigerator is on a level surface. Absorption refrigerators are generally silent; unusual noises may indicate an issue.

For further troubleshooting or issues not listed here, please refer to the comprehensive troubleshooting section in the full printed manual or contact Techomey customer support.

SPECIFICATIONS

Feature	Specification
Brand	Techomey
Model Number	HSG-40B2U(A)-FBA
Capacity	1.4 Cubic Feet
Product Dimensions (W x D x H)	18.1 x 19 x 22.2 inches
Item Weight	43 pounds
Voltage	110 Volts (AC)
Annual Energy Consumption	229 Kilowatt Hours Per Year
Noise Level	0.01 Decibels
Defrost System	Automatic
Installation Type	Freestanding
Number of Doors	1

WARRANTY AND SUPPORT

Your Techomey 1.4 Cu.Ft 3-Way Propane Refrigerator is covered by a manufacturer's warranty against defects in materials and workmanship. For specific warranty details, including duration and coverage, please refer to the warranty card included with your product or visit the official Techomey website.

For technical assistance, troubleshooting, or to inquire about parts and service, please contact Techomey customer support. You can find contact information on the product packaging or the official brand website. Always provide your model number (HSG-40B2U(A)-FBA) when seeking support to ensure efficient service.

Visit the Techomey Store for more information and products.