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SMETA DSG-60B1E(A)

SMETA 60L 3-Way Camping Refrigerator User Manual

Model: DSG-60B1E(A)

1. INTRODUCTION

Thank you for choosing the SMETA 60L 3-Way Camping Refrigerator. This appliance is designed for versatile use, offering cooling capabilities via AC (220V-240V), DC (12V), and Gas (Propane/Natural Gas). Its absorption cooling system ensures silent operation, making it ideal for various environments such as RVs, caravans, trucks, camping, and home use. This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your refrigerator.



Figure 1.1: SMETA 60L 3-Way Camping Refrigerator and a gas cylinder.

2. SAFETY INSTRUCTIONS

Please read and understand all safety instructions before operating the refrigerator. Failure to follow these instructions may result in property damage, injury, or death.

- **Ventilation:** Always ensure adequate ventilation when operating the refrigerator, especially when using the gas mode. Proper airflow prevents the accumulation of unburnt gas and ensures efficient operation.
- **Gas Pressure:** When operating on gas, ensure the gas pressure is **30 mbar**. Incorrect gas pressure (e.g., 1 PSIG) may prevent continuous ignition or proper functioning. If your regulator is 1 PSIG, contact the manufacturer for a 30 mbar exchange.
- **Installation:** Install the refrigerator on a stable, level surface. Ensure all connections (electrical and gas) are secure

and free from leaks.

- **Flammable Materials:** Do not store flammable materials or explosives inside or near the refrigerator.
- **Maintenance:** Only qualified personnel should perform repairs or complex maintenance.
- **Children:** Keep children away from the appliance during operation and maintenance.



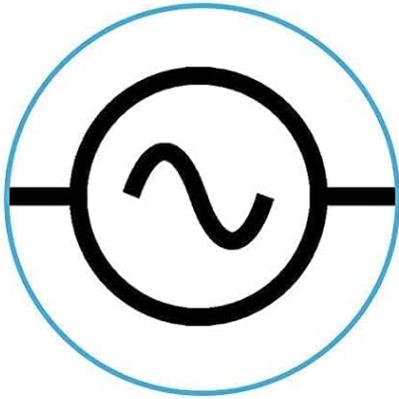
Figure 2.1: Importance of correct gas regulator pressure (30 mbar is equivalent to approximately 0.435 PSIG).

3. PRODUCT OVERVIEW

3.1 Key Features

- **3-Way Operation:** Operates on AC (220V-240V), DC (12V), and Gas (Propane/Natural Gas).
- **Silent Operation (0dB):** Utilizes an absorption cooling system with no moving parts, ensuring quiet performance.
- **60 Liter Capacity:** Ample space for food and beverages with removable shelves.
- **Reversible Door:** Allows for flexible placement and convenience.
- **Temperature Range:** Maintains temperatures between 0°C and 10°C.
- **Eco-Friendly:** Uses natural refrigerants with zero ozone depletion potential.

3 WAY OF WORKING

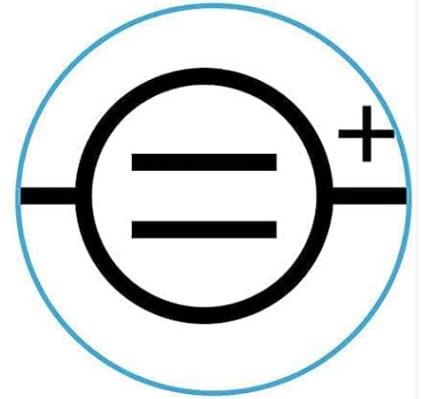


AC



Propane

LP GAS



DC



Figure 3.1: The refrigerator's versatile 3-way power options.



Figure 3.2: The SMETA 3-Way Fridge in a typical outdoor use scenario.

3.2 Components and Controls

Familiarize yourself with the main components and control panel of your refrigerator.

SIMPLE OPERATION

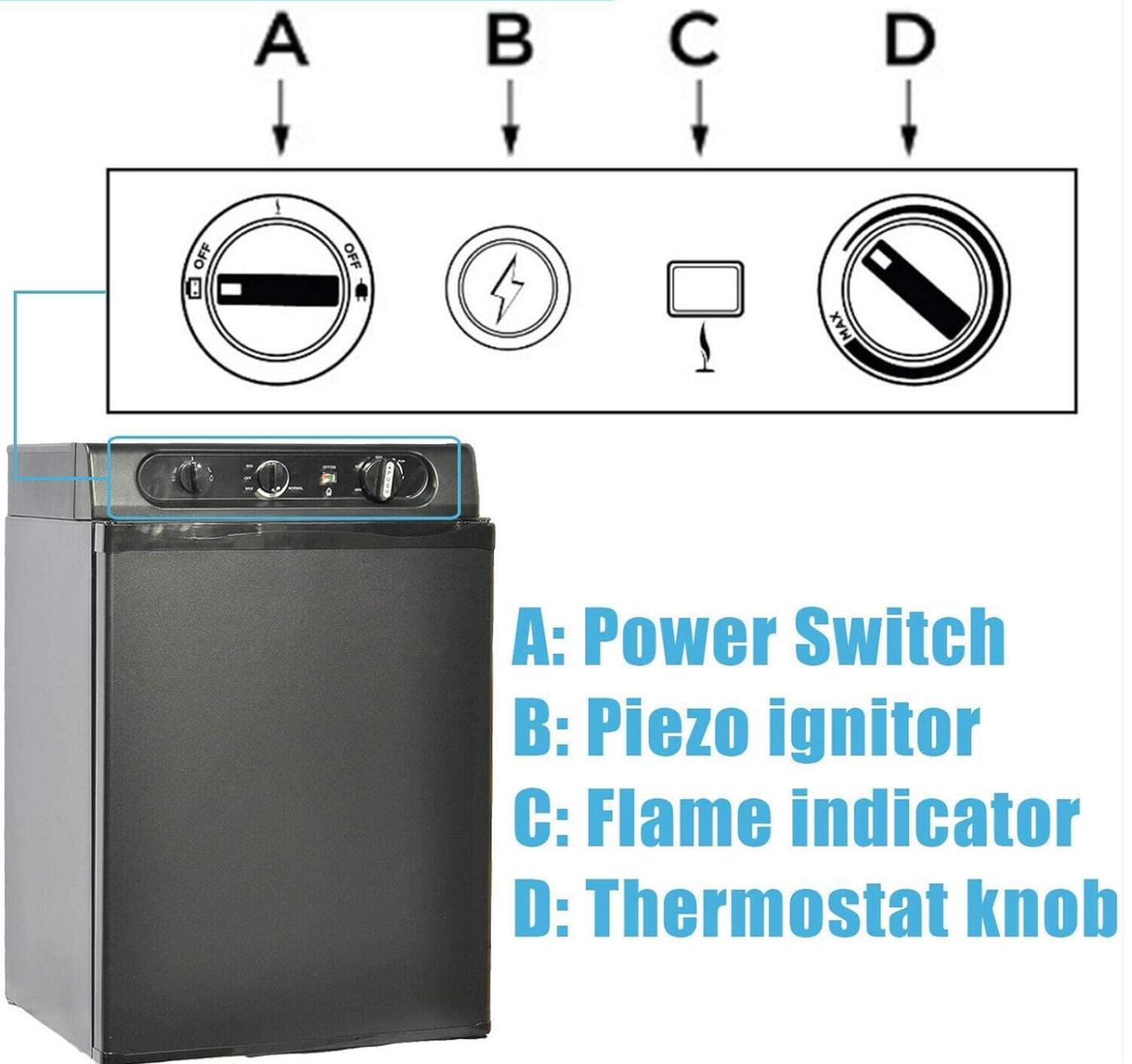


Figure 3.3: Control Panel Layout.

A: Power Switch (Mode Change Knob): Selects OFF, AC, DC, or Gas mode.

B: Piezo Ignitor (Electric Thermostat Knob): Used to ignite the gas and control electric thermostat.

C: Flame Indicator: Shows if the gas flame is lit (green zone indicates successful ignition).

D: Thermostat Knob (Safety Valve & Pulse Switch): Controls temperature and is part of the gas ignition process.

Absorption Cooling System



ODB
Perfect Quiet



Freon Free



Propane
0.12 KG/Day



Longer
Life Span



RV and Home
Use



Temperature
Range 0-10°C

Figure 3.4: Rear view showing the absorption cooling system.

4. SETUP

4.1 Unpacking and Placement

1. Carefully remove the refrigerator from its packaging.

2. Place the refrigerator on a firm, level surface. Ensure there is sufficient space around the unit for proper ventilation, especially at the rear where the cooling system is located.
3. For optimal performance, allow the refrigerator to stand upright for at least 6 hours before connecting to power or gas, especially if it was transported horizontally.

4.2 Connecting Power and Gas

- **AC (220V-240V) Connection:** Plug the AC power cord into a grounded wall outlet.
- **DC (12V) Connection:** Connect the DC power cord to a 12V DC power source, such as a vehicle's cigarette lighter socket or a dedicated 12V power supply. Ensure correct polarity.
- **Gas Connection:**
 - Connect the gas hose from your propane or natural gas cylinder to the refrigerator's gas inlet.
 - Ensure the gas pressure regulator is set to **30 mbar**. Using a 1 PSIG regulator may cause ignition issues.
 - Check all gas connections for leaks using a soapy water solution. Bubbles indicate a leak.



Figure 4.1: Rear connections for power and gas.

5. OPERATING INSTRUCTIONS

5.1 Selecting Operating Mode (AC/DC/Gas)

Use the Power Switch (A) on the control panel to select your desired operating mode:

- Turn knob (A) to "AC" for 220V-240V operation.
- Turn knob (A) to "DC" for 12V operation.
- Turn knob (A) to "GAS" for gas operation.

5.2 Gas Ignition Procedure

Follow these steps to ignite the refrigerator in gas mode:

1. Turn the Mode Change Knob (A) to "GAS".
2. Press and hold the Safety Valve & Pulse Switch (D) for 5 to 10 seconds. While holding it in, press the Piezo Ignitor (B) repeatedly to spark.
3. Once the Flame Indicator (C) reaches the green zone, continue to hold the Safety Valve & Pulse Switch (D) for another 3 to 5 seconds, then release it to complete the ignition.
4. After successful ignition, the Safety Valve & Pulse Switch (D) can be used to adjust the flame size between MIN and

MAX.



Figure 5.1: Detailed Gas Ignition Method.

5.3 Temperature Control

The temperature is controlled by the Thermostat Knob (D) when operating on gas, and by the Electric Thermostat Knob (B) when operating on AC. Adjust the knob to achieve the desired cooling level within the 0°C to 10°C range.

Temperature range:

0°C~10°C

Keep drinks cool and food fresh

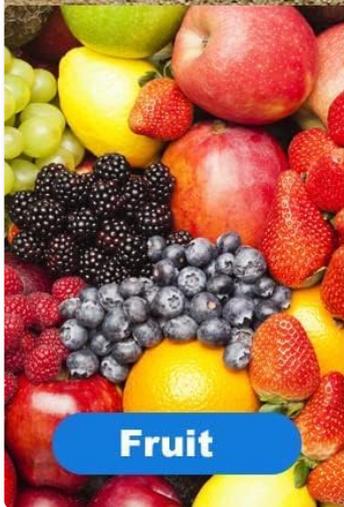


Figure 5.2: Interior capacity and temperature range.

6. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your SMETA refrigerator.

- **Cleaning:**

- Disconnect power and gas before cleaning.
 - Clean the interior with a mild detergent and warm water. Wipe dry thoroughly.
 - Clean the exterior with a soft, damp cloth. Avoid abrasive cleaners.
 - Periodically clean the rear cooling fins to ensure efficient heat dissipation.
- **Gas System Check:** Regularly inspect gas hoses and connections for any signs of wear, damage, or leaks. Perform a soapy water leak test periodically.
 - **Storage:** If storing the refrigerator for an extended period, ensure it is clean, dry, and disconnected from all power and gas sources. Leave the door slightly ajar to prevent odors and mold growth.

7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Refrigerator not cooling (AC/DC)	No power; Incorrect mode selected; Overloaded; Poor ventilation.	Check power connection and outlet; Ensure correct mode (AC/DC) is selected; Do not overload the refrigerator; Ensure adequate ventilation around the unit.
Refrigerator not cooling (Gas)	No gas; Incorrect gas pressure; Gas not igniting; Poor ventilation.	Check gas cylinder level; Verify gas pressure is 30 mbar (not 1 PSIG); Follow gas ignition procedure carefully; Ensure proper ventilation.
Gas flame not staying lit	Insufficient holding time of safety valve; Incorrect gas pressure.	Hold the Safety Valve & Pulse Switch (D) for the recommended 3-5 seconds after the flame indicator turns green; Confirm gas pressure is 30 mbar.
Unusual odors	Food spoilage; Need for cleaning.	Clean the interior thoroughly; Remove any spoiled food.
Noisy operation	Not applicable for absorption refrigerators (0dB). If noise occurs, contact support.	This model is designed for silent operation. If you hear unusual noises, discontinue use and contact customer support.
Refrigerator stops working after long period of non-use or transport	Refrigerant blockage in absorption system.	As a last resort, and only if other troubleshooting steps fail, carefully turn the refrigerator upside down for 8 hours, then return it to the upright position for another 8 hours before attempting to operate it again. This can help redistribute the refrigerant solution.

8. SPECIFICATIONS

Feature	Detail
Brand	SMETA
Model Number	DSG-60B1E(A)

Feature	Detail
Color	Black
Dimensions (L x W x H)	48 x 46 x 69 cm
Weight	22 Kilograms
Capacity	60 Liters
Voltage (AC)	220-240 Volts
Voltage (DC)	12 Volts
Gas Consumption	5 g/h (Propane)
Temperature Range	0°C ~ 10°C
Defrost System	Frost-free
Special Features	Compact, Silent (0dB), Absorption Refrigerator, Adjustable Shelf, Reversible Door
Certifications	CE



Figure 8.1: Refrigerator Dimensions (Note: Image shows 65cm height, specifications state 69cm. Using specification value in table, noting image discrepancy).

9. WARRANTY AND SUPPORT

SMETA products are manufactured to high-quality standards. For any questions, technical assistance, or warranty claims, please contact SMETA customer support. Please refer to your purchase documentation for specific warranty terms and contact information.

For support, you may contact the seller directly via the platform where the product was purchased. Ensure you have your model number (DSG-60B1E(A)) and purchase details ready.

