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› SMETA 40L 3-Way Absorption Refrigerator User Manual

SMETA DSG-40B1E

SMETA 40L 3-Way Absorption Refrigerator User Manual

Model: DSG-40B1E

1. INTRODUCTION

Thank you for choosing the SMETA 40L 3-Way Absorption Refrigerator. This appliance is designed for versatile cooling, operating on Propane Gas, 12V DC, and 220-240V AC power sources. It is an ideal solution for RVs, campers, trucks, and off-grid living, offering quiet and efficient cooling.

This manual provides essential information for the safe and efficient operation, installation, maintenance, and troubleshooting of your refrigerator. Please read it thoroughly before use and keep it for future reference.

space, a ventilation kit is required.

- **Gas Pressure:** Ensure the gas pressure is 30 mbar when using the gas camping refrigerator.
- **Power Sources:** Do not use two types of power sources simultaneously (e.g., AC and Gas).
- **Level Placement:** The refrigerator must be placed horizontally. If the tilt angle is greater than 5°, the cooling unit may become blocked and stop cooling. Adjust the feet to ensure the top (bottom) surface is horizontal.
- **Initial Setup:** After receiving the refrigerator, place it upright horizontally for 6 hours before connecting it to any power source.
- **Flammable Materials:** Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.
- **Maintenance:** Only qualified personnel should perform repairs. Improper repairs can lead to significant hazards.

3. PRODUCT COMPONENTS AND CONTROLS

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

3.1. Control Panel Overview

CONTROL PANEL



A

B

C

D

E



A: Battery compartment

B: Battery ignition

C: Flame indicator

D: Safety Valve button

E: Thermostat knob

Image: Detailed view of the control panel, indicating the battery compartment, battery ignition, flame indicator, safety valve button, and thermostat knob.

A: Battery Compartment - Holds the battery for ignition.

B: Battery Ignition - Used to ignite the gas flame.

C: Flame Indicator - Illuminates when the gas flame is active.

D: Safety Valve Button - Press to open the gas safety valve during ignition.

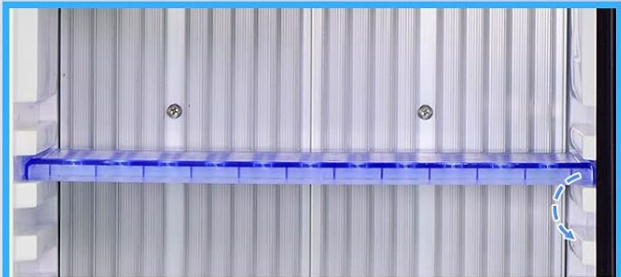
E: Thermostat Knob - Adjusts the internal temperature (settings 1-4).

3.2. Key Features

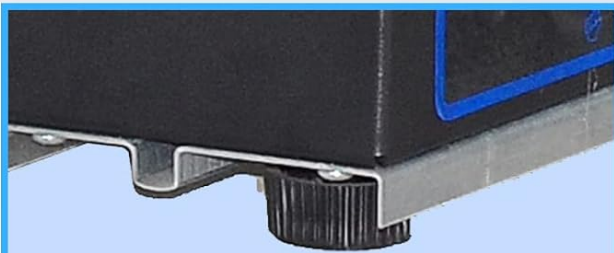
Compact Fridge



Thermostat & Light



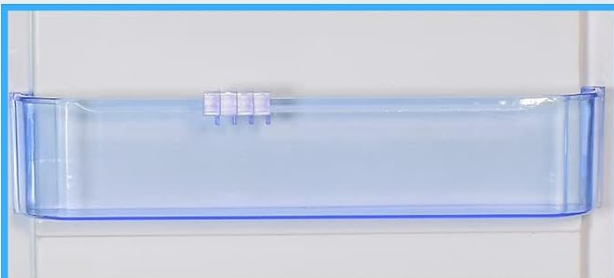
Adjustable Shelf



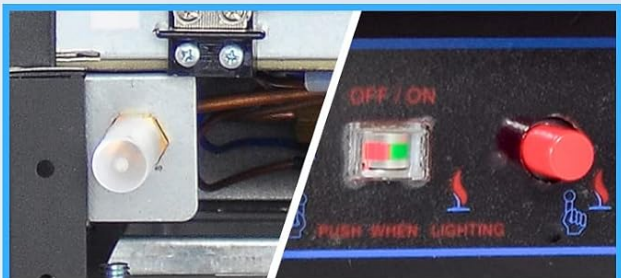
Adjustable Foot



12V Cable



Door Bin



Gas Power

Image: A visual breakdown of the refrigerator's key features, including the thermostat and interior light, adjustable shelves, adjustable feet for leveling, the 12V DC power cable, and the gas power controls.

- **Thermostat & Light:** Internal temperature control and LED interior lighting.
- **Adjustable Shelf:** Removable shelves for flexible storage.
- **Adjustable Foot:** For leveling the unit on uneven surfaces.
- **12V Cable:** For DC power connection.
- **Door Bin:** Storage compartment on the inside of the door.
- **Gas Power:** Controls for gas operation.

4. INSTALLATION AND SETUP

Proper installation is crucial for the performance and longevity of your refrigerator.

1. Unpacking and Initial Placement:

Carefully unpack the refrigerator. After unpacking, place the unit upright horizontally for at least 6 hours before

plugging it in. This allows the refrigerant to settle properly.

2. Leveling:

Place the refrigerator on a firm, flat surface. Use the adjustable feet to ensure the unit is perfectly level. A tilt angle greater than 5° can impair cooling performance.

3. Ventilation (Gas Operation):

If you intend to use the refrigerator with gas in an enclosed space (e.g., RV, camper), ensure there is adequate ventilation. A proper ventilation kit or chimney accessory may be required to safely vent exhaust gases. Contact SMETA for chimney accessory options if needed.

4. Power Connection:

Before connecting to any power source, ensure the refrigerator has been upright for 6 hours. Test the 220-240V AC connection first. Set the temperature to the lowest setting and connect to 240V. After 6-8 hours, check if the interior is cold and the back is heated. If so, you can then connect to 12V DC or gas.

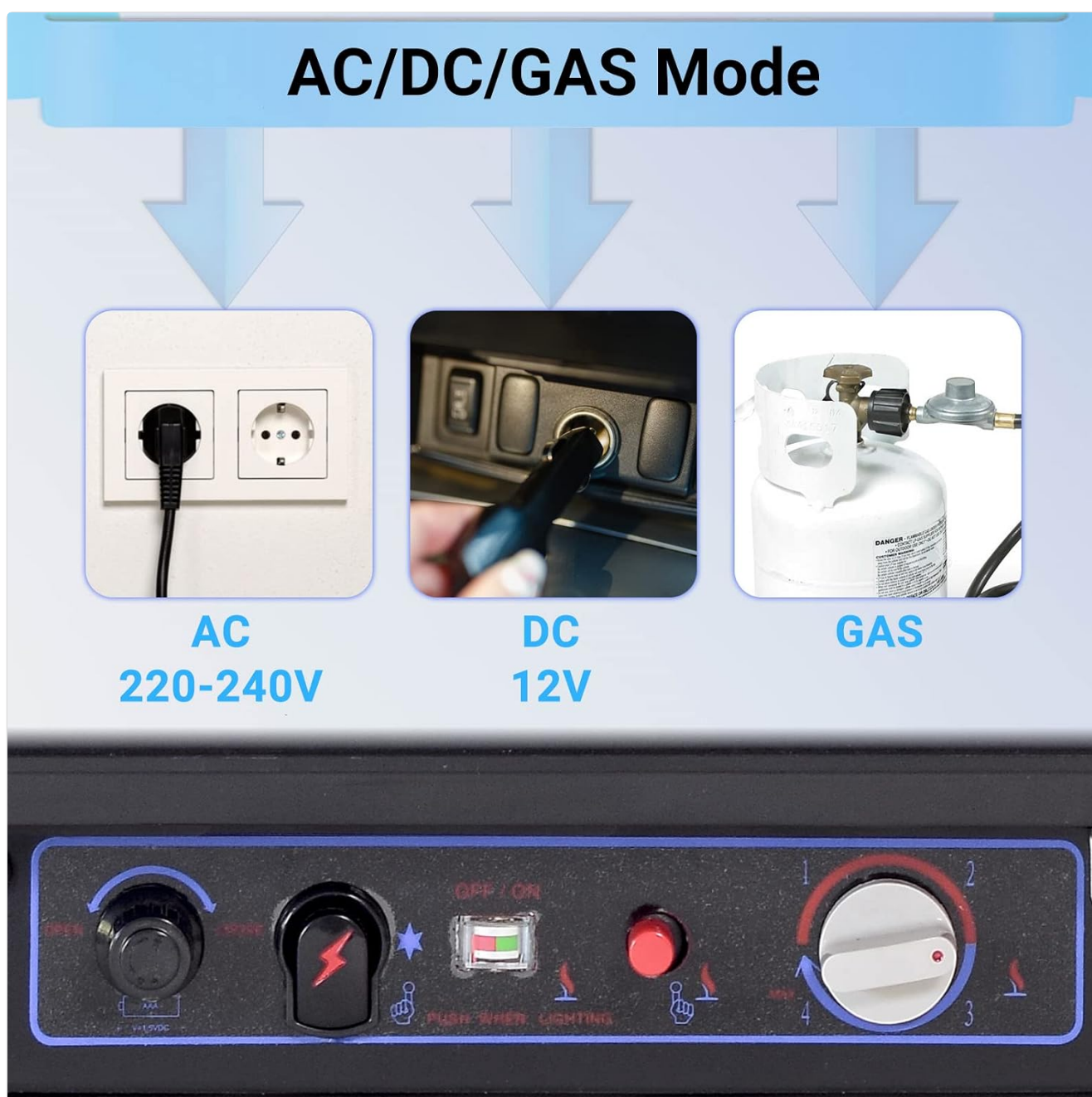


Image: Illustration of the three power modes: AC (220-240V), DC (12V), and Gas, demonstrating the versatility of the refrigerator.

5. OPERATING INSTRUCTIONS

Your SMETA refrigerator can operate on three different power sources: AC (220-240V), DC (12V), and Propane Gas.

5.1. General Operation Tips

- This is an absorption refrigerator, which works differently from compressor refrigerators. It uses a mixture of ammonia, water, and hydrogen for cooling and operates silently.
- It may take approximately 6 to 8 hours to reach its optimal cooling temperature upon first use.
- Do not use two power sources simultaneously. Select only one at a time.

5.2. Operating on AC (220-240V)

1. Ensure the refrigerator is properly leveled.
2. Plug the AC power cord into a standard 220-240V wall outlet.
3. Turn the thermostat knob (E) to your desired cooling setting (1-4). Setting 4 is the coldest.

5.3. Operating on DC (12V)

1. Ensure the refrigerator is properly leveled.
2. Connect the 12V DC cable to a compatible 12V power source (e.g., vehicle's cigarette lighter socket).
3. Turn the thermostat knob (E) to your desired cooling setting. Note: The LED light may not turn on when operating on 12V.
4. **Important Note for 12V Wiring:** The white wire is typically Earth/Ground, and the black wire is Positive (+). This may be reversed compared to some standard wiring conventions.

5.4. Operating on Propane Gas

1. Ensure the refrigerator is properly leveled and adequate ventilation is provided.
2. Connect the refrigerator to a propane gas supply. Ensure the gas pressure is 30 mbar.
3. Turn the thermostat knob (E) to the desired setting.
4. Press and hold the Safety Valve Button (D).
5. While holding the Safety Valve Button, repeatedly press the Battery Ignition (B) until the flame ignites.
6. Observe the Flame Indicator (C). It should illuminate once the flame is stable. Continue holding the Safety Valve Button for a few more seconds after ignition, then release it slowly.
7. If the flame does not ignite or goes out, repeat the process. Ensure the gas supply is open and there is no air in the line.
8. Note: The LED light may not turn on when operating on Gas.

6. MAINTENANCE AND CARE

Regular maintenance helps ensure optimal performance and extends the lifespan of your refrigerator.

- **Cleaning:** Clean the interior and exterior of the refrigerator regularly with a mild detergent and a soft cloth. Do not use abrasive cleaners or solvents.
- **Defrosting:** This unit features a frost-free defrosting system. However, if ice buildup occurs, manually defrost by turning off the unit and leaving the door open until ice melts.
- **Gas System Check:** Periodically check gas connections for leaks. Use a soapy water solution; bubbles indicate a leak.
- **Ventilation Grilles:** Keep ventilation grilles clear of obstructions to ensure proper airflow, especially during gas operation.
- **Long-Term Storage:** If storing the refrigerator for an extended period, ensure it is clean, dry, and the door is slightly ajar to prevent odors and mold.

7. TROUBLESHOOTING

Before contacting customer support, please refer to the following common issues and their solutions:

Problem	Possible Cause	Solution
Refrigerator not cooling or not cold enough.	Unit not level (tilt > 5°). Cooling unit clogged. Insufficient power supply (AC/DC). Gas supply issues (empty tank, low pressure, air in line). Heating element failure. First use, not enough time to cool.	Ensure the unit is perfectly level using adjustable feet. For clogged cooling unit: 1. Turn upside down for 8 hours. 2. Place upright for 8 hours. 3. Reconnect power. Check power connections and voltage. Check gas tank, ensure 30 mbar pressure, bleed air from line. Replace heating element (professional service recommended). Allow 6-8 hours for initial cooling.
Gas flame does not ignite or goes out.	No gas supply or low pressure. Safety valve not held long enough. Air in gas line. Igniter issue.	Check gas tank and pressure (30 mbar). Hold safety valve button longer after ignition. Bleed air from the gas line by attempting ignition multiple times. Check battery in battery compartment (A).
LED lights do not turn on.	Normal behavior on 12V or Gas mode. Light bulb failure.	This is expected for 12V and Gas operation. Replace LED light (included in package).

8. TECHNICAL SPECIFICATIONS

Detailed specifications for the SMETA 40L 3-Way Absorption Refrigerator, Model DSG-40B1E.

Feature	Specification
Brand	SMETA
Model Identifier	DSG-40B1E
Product Dimensions (W x D x H)	46 x 48 x 65 cm (approx. 45T x 40B x 63H cm also listed)
Capacity	40 Liters
Annual Energy Consumption	229 kWh per year (also 292 kWh/annum listed for TSG-40B1E)
Freezer Compartment Volume	40 Liters (Note: Listed as "Nutzinhalt Gefrierfach" which usually means freezer, but this is a mini-fridge, likely refers to total usable volume)

Feature	Specification
Installation Type	Freestanding/Counter-depth/Tabletop
Form Factor	Compact
Special Features	Compact, Adjustable Shelves, Absorption Refrigerator, 12V 240V Gas Camping Refrigerator for Caravan, Truck, RV and Van, Silent Operation
Color	Black
Voltage	12 Volt (DC)
Wattage	65 Watts
Number of Drawers	2
Defrost System	Frost-free
Shelf Type	Adjustable Shelves
Certification	CE
Included Components	LED Light
First Available on Amazon.de	June 5, 2022

For detailed energy information, please refer to the official product information sheets:

[Energy Label and Product Information Sheet \(TSG-40B2E\(A\)\)](#)


ENERG


QINGDAO SMAD ELECTRIC APPLIANCES TSG-40B2E(A)

A
B
C
D
E
F
G

229 kWh/annum



32 L



22dB

A B C D

2019/2016

Produktdatenblatt					
DELEGIERTE VERORDNUNG (EU) 2019/2016 DER KOMMISSION zur Energieverbrauchskennzeichnung von Kühlgeräten					
Name oder Handelsmarke des Lieferanten: QINGDAO SMAD ELECTRIC APPLIANCES CO.,LTD					
Anschrift des Lieferanten: APEX CE SPECIALISTS LIMITED, UNIT 3D NORTH POINT HOUSE, NORTH POINT BUSINESS PARK, NEW MALLOW ROAD, T23 AT2P CORK, IE					
Modellkennung: TSG 40B2E(A)					
Art des Kühlgeräts:					
Geräuscharmes Gerät:		Ja	Bauart:	freistehend	
Weinlagerschrank:		Nein	Anderes Kühlgerät:	Nein	
Allgemeine Produktparameter:					
Parameter		Wert		Parameter	Wert
		Höhe	563		
Gesamtabmessungen (in Millimeter)		Breite	460	Gesamttrauminhalt (in dm³ oder l)	
		Tiefe	465		
EER		298	Energieeffizienzklasse	G	
Luftschallemissionen (in dB(A) re 1 pW)		22	Luftschallemissionsklasse	A	
Jährlicher Energieverbrauch (in kWh/a)		229	Klimaklasse:	erweiterte gemäßigte Zone, gemäßigte Zone	
Mindestumgebungstemperatur (in °C), für die das Kühlgerät geeignet ist		16	Höchstumgebungstemperatur (in °C), für die das Kühlgerät geeignet ist	32	
Winterschaltung		Ja			
Fachparameter:					
Fachparameter und -werte					
Fachtyp	Rauminhalt des Fachs (in dm³ oder l)	Empfohlene Temperatureinstellung für eine optimierte Lebensmittellagerung (in °C) Diese Einstellungen dürfen nicht im Widerspruch zu den Lagerbedingungen nach Anhang IV Tabelle 3 stehen	Gefriervermögen (in kg/24h)	Defrosting type (auto-defrost-A, manual defrost-M)	
Speisekammerfach	Nein	-	-	-	
Weinlagerfach	Nein	-	-	-	
Kellerfach	Nein	-	-	-	
Lagerfach für frische Lebensmittel	Ja	32,0	12	A	
Kaltlagerfach	Nein	-	-	-	
Null-Sterne- oder Eisbereiterfach	Nein	-	-	-	
Ein-Sterne-Fach	Nein	-	-	-	
Zwei-Sterne-Fach	Nein	-	-	-	
Drei-Sterne-Fach	Nein	-	-	-	
Vier-Sterne-Fach	Nein	-	-	-	
Zwei-Sterne-Abteil	Nein	-	-	-	
Fach mit variabler Temperatur	-	-	-	-	
Lichtquellenparameter:					
Art der Lichtquelle		LED			
Energieeffizienzklasse		E			
Mindestlaufzeit der vom Hersteller angebotenen Garantie: 12 Monate					
Weitere Angaben:					
Weblink zur Website des Herstellers, auf der die Informationen gemäß Nummer 4 Buchstabe a des Anhangs der Verordnung (EU) 2019/2019 der Kommission zu finden sind: https://www.smad.com.cn/					

Product Information Sheet COMMISSION DELEGATED REGULATION (EU) 2019/2016 with regard to energy labelling of refrigerating appliances Supplier's name or trade mark: Smeta Supplier's address: Apex CE Specialists GmbH, Ravoldhauser Str. 31 a, 63543 Neuberg, DE Model identifier: TSG-40B1E Type of refrigerating appliance: <table> <tr> <td>Low-noise appliance:</td> <td>Yes</td> <td>Design type:</td> <td>freestanding</td> </tr> <tr> <td>Wine storage appliance:</td> <td>No</td> <td>Other refrigerating appliance:</td> <td>Yes</td> </tr> </table> General product parameters: <table> <tr> <td>Parameter</td> <td>Value</td> <td>Parameter</td> <td>Value</td> </tr> <tr> <td rowspan="3">Overall dimensions (millimetre)</td> <td>Height 635</td> <td rowspan="3">Total volume (dm³ or l)</td> <td rowspan="3">36</td> </tr> <tr> <td>Width 402</td> </tr> <tr> <td>Depth 455</td> </tr> <tr> <td>FEI</td> <td>353</td> <td>Energy efficiency class</td> <td>G</td> </tr> <tr> <td>Airborne acoustical noise emissions (dB(A) re 1 pW)</td> <td>0</td> <td>Airborne acoustical noise emission class</td> <td>A</td> </tr> <tr> <td>Annual energy consumption (kWh/a)</td> <td>292</td> <td>Climate class:</td> <td>temperate</td> </tr> <tr> <td>Minimum ambient temperature (°C), for which the refrigerating appliance is suitable</td> <td>10</td> <td>Maximum ambient temperature (°C), for which the refrigerating appliance is suitable</td> <td>32</td> </tr> <tr> <td>Winter setting</td> <td>No</td> <td></td> <td></td> </tr> </table>						Low-noise appliance:	Yes	Design type:	freestanding	Wine storage appliance:	No	Other refrigerating appliance:	Yes	Parameter	Value	Parameter	Value	Overall dimensions (millimetre)	Height 635	Total volume (dm³ or l)	36	Width 402	Depth 455	FEI	353	Energy efficiency class	G	Airborne acoustical noise emissions (dB(A) re 1 pW)	0	Airborne acoustical noise emission class	A	Annual energy consumption (kWh/a)	292	Climate class:	temperate	Minimum ambient temperature (°C), for which the refrigerating appliance is suitable	10	Maximum ambient temperature (°C), for which the refrigerating appliance is suitable	32	Winter setting	No																							
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9. WARRANTY AND SUPPORT

- **Manufacturer's Warranty:** The minimum duration of the guarantee offered by the manufacturer is 12 months.
- **Customer Support:** For any questions, technical assistance, or warranty claims, please contact SMETA customer service. Refer to your purchase documentation for specific contact details.
- **Online Resources:** Visit the official SMETA brand store on Amazon for additional product information and support: [SMETA Brand Store](#).

ASK A QUESTION ABOUT THIS MANUAL

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Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

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