

Smad DSX-30B2E

Smad 12V/240V 30L Caravan Fridge Instruction Manual

MODEL: DSX-30B2E

1. Introduction

Thank you for choosing the Smad 12V/240V 30L Caravan Fridge. This compact and versatile absorption refrigerator is designed for use in various environments, including caravans, vans, trucks, RVs, motorhomes, and even at home. Its dual power supply options (12V DC and 240V AC) provide exceptional flexibility, ensuring your food and drinks remain cool and fresh wherever your adventures take you.

The fridge features a silent absorption cooling system, operating at a low noise level of 21dB, making it ideal for quiet spaces like bedrooms or living areas. It is also environmentally friendly, as it does not use a compressor or Freon. With an adjustable thermostat, you can maintain temperatures between 0°C and 10°C. The reversible door and removable shelves offer flexible storage solutions to suit your needs.



The Smad 30L Caravan Fridge with its door open, revealing ample storage space for various items.

Mini Compact Fridge



Compact dimensions of the Smad fridge, measuring 40.2cm (width) x 44cm (depth) x 50cm (height).

2. Important Safety Information

Please read all safety precautions and instructions carefully before installing, operating, or servicing this product. Failure to do so may result in fire, explosion, or other hazards.

- **Risk of Fire or Explosion:** This appliance uses flammable refrigerant.
- **Proper Disposal:** Dispose of the appliance properly in accordance with federal and local regulations.
- **Do Not Puncture Refrigerant Tubing:** Avoid puncturing or damaging the refrigerant tubing.
- **Service by Trained Personnel Only:** Repairs must only be performed by trained and authorized service personnel.
- **Consult Manual:** Always consult the repair manual or owner's guide before attempting to install or service this product.

⚠ CAUTION - Risk Of Fire Or Explosion. Dispose Of Properly In Accordance With Federal Or Local Regulations. Flammable Refrigerant Used.
⚠ CAUTION - Risk Of Fire Or Explosion Due To Puncture Of Refrigerant Tubing; Follow Handling Instructions Carefully. Flammable Refrigerant Used.
⚠ DANGER - Risk Of Fire Or Explosion. Flammable Refrigerant Used. To Be Repaired Only By Trained Service Personnel. Do Not Puncture Refrigerant Tubing.
⚠ CAUTION - Risk Of Fire Or Explosion. Flammable Refrigerant Used. Consult Repair Manual/Owner's Guide Before Attempting To Install or Service This Product. All Safety Precautions Must be Followed.

⚠ VORSICHT - Brand- und Explosionsgefahr. Ordnungsgemäße Entsorgung gemäß den bundesstaatlichen und örtlichen Vorsc.
⚠ VORSICHT - Brand- und Explosionsgefahr durch Durchstoßen der Kältemittelleitungen; Handlungsanweisungen sorgfältig befolgen. Entflammbares Kältemittel verwendet.
⚠ GEFAHR - Brand- oder Explosionsgefahr. Entflammbares Kältemittel verwendet. Darf nur von geschultem Servicepersonal repariert werden. Die Kältemittelleitungen nicht durchstechen.
⚠ VORSICHT - Brand- oder Explosionsgefahr. Entflammbares Kältemittel verwendet. Lesen Sie das Reparaturhandbuch/Benutzerhandbuch, bevor Sie versuchen, dieses Produkt zu installieren oder zu warten. Alle Sicherheitsvorkehrungen müssen befolgt werden.

⚠ ATTENTION - Risque d'incendie ou d'explosion. Disposer de manière appropriée conformément aux réglementations fédérales ou locales. Utilisation d'un réfrigérant inflammable.
⚠ ATTENTION - Risque d'incendie ou d'explosion en cas de perforation de la tuyauterie du réfrigérant ; suivre attentivement les instructions de manipulation. Réfrigérant inflammable utilisé.
⚠ DANGER - Risque d'incendie ou d'explosion. Utilisation d'un réfrigérant inflammable. Les réparations ne doivent être effectuées que par du personnel formé à cet effet. Ne pas percer les tuyaux de réfrigérant.
⚠ ATTENTION - Risque d'incendie ou d'explosion. Réfrigérant inflammable utilisé. Consulter le manuel de réparation/guide du propriétaire avant d'essayer d'installer ou d'entretenir ce produit. Toutes les mesures de sécurité doivent être respectées.

⚠ PRECAUCIÓN - Riesgo de incendio o explosión. Elimínese de acuerdo con la normativa local o federal. Refrigerante inflamable utilizado.
⚠ PRECAUCIÓN - Riesgo de incendio o explosión debido a la perforación del tubo de refrigerante. Siga atentamente las instrucciones de manipulación. Refrigerante inflamable utilizado.
⚠ PELIGRO - Riesgo de incendio o explosión. Sólo debe ser reparado por personal de servicio cualificado. No perforar los tubos de refrigerante.
⚠ PRECAUCIÓN - Riesgo de incendio o explosión. Consulte el manual de reparación o la guía del usuario antes de intentar instalar o reparar este producto. Deben seguirse todas las precauciones de seguridad.

⚠ ATTENZIONE - Rischio di incendio o esplosione. Smaltire correttamente in conformità alle normative federali o locali. Refrigerante infiammabile utilizzato.
⚠ ATTENZIONE - Rischio di incendio o esplosione a causa della perforazione dei tubi del refrigerante; seguire attentamente le istruzioni per la manipolazione. Seguire attentamente le istruzioni per la manipolazione. Refrigerante infiammabile utilizzato.
⚠ PERICOLO - Rischio di incendio o esplosione. Refrigerante infiammabile utilizzato. La riparazione deve essere effettuata solo da personale di assistenza qualificato. Non perforare i tubi del refrigerante.
⚠ ATTENZIONE - Rischio di incendio o esplosione. Refrigerante infiammabile utilizzato. Consultare il manuale di riparazione/guida del proprietario prima di tentare di installare o riparare questo prodotto. Tutte le precauzioni di sicurezza devono essere seguite.

A safety warning label indicating the use of flammable refrigerant and the need for professional servicing.

3. What's in the Box

Upon unpacking, please ensure all the following items are present:

- Smad 30L Caravan Fridge Unit
- 240V AC Power Plug
- 12V DC Power Plug (Car Cigarette Lighter Adapter)
- Instruction Manual (this document)
- 2 Keys (for the door lock)
- Free accessory replacement (details in warranty section)

4. Setup and Installation

4.1 Initial Placement

Before plugging in the fridge, it is crucial to allow it to stand upright for at least 5 hours (or as recommended by some users, turn it upside down for 5 hours, then right side up for 1 hour). This allows the refrigerant fluids to settle properly within the absorption system, ensuring optimal performance and preventing potential issues.

Place the fridge on a stable, level surface. Ensure there is adequate ventilation around the unit, especially at the rear where the cooling system is located, to allow for proper heat dissipation.

4.2 Reversible Door Installation

The fridge features a reversible door, allowing you to change the door's opening direction from left to right or right to left to suit your installation space. Refer to the diagrams below for guidance on reversing the door. This process typically involves unscrewing hinges, flipping the door, and reattaching hinges on the opposite side.



Absorber cooling

**No Freon
Only 21 dB
No mechanics
Environmental
Longer use 15 years**

VS



**Compressor cooling
with Freon
noisy
with mechanics
polluting
short service life**

Illustration of the reversible door design, offering flexibility for placement.

5. Operating Instructions

5.1 Power Connection

The Smad fridge supports two power input options:

- **240V AC:** For household use, simply plug the provided 240V power cord into a standard wall socket.
- **12V DC:** For mobile use in vehicles, connect the provided 12V power cord to your vehicle's cigarette lighter socket.

Ensure the correct power cord is used for the respective power source. The fridge is designed to seamlessly switch between these power modes if both are connected, prioritizing AC power when available.

DC 12V/AC 220-240V
30L 2 Way Fridge

0-10°C

12V

220-240V

The fridge supports both 12V DC and 220-240V AC power inputs for versatile use.

5.2 Temperature Control

The fridge is equipped with an adjustable thermostat, allowing you to set the internal temperature between 0°C and 10°C. Locate the thermostat dial inside the fridge compartment. Turn the dial to your desired setting. A lower number typically indicates a warmer temperature, while a higher number indicates a colder temperature. Allow several hours for the fridge to reach the set temperature after initial power-on or adjustment.

Reversible door design



Internal view showing the thermostat dial for temperature adjustment and the LED light.

5.3 Silent Operation

This absorption fridge operates silently (0dB, rated at 21dB noise level), making it suitable for environments where noise is a concern, such as bedrooms, offices, or quiet living spaces in caravans. The absence of a compressor eliminates mechanical noise and vibrations.



The fridge operates at a low 21dB noise level, ensuring a quiet environment.

5.4 Door Lock

The fridge is equipped with a lock and key mechanism for added security, particularly useful during travel to prevent accidental opening or to secure contents.

6. Maintenance

6.1 Cleaning

To clean the interior and exterior of the fridge, unplug the unit from the power source. Use a soft cloth dampened with mild detergent and water. Avoid abrasive cleaners, solvents, or harsh chemicals that could damage the surfaces. Dry thoroughly with a clean, soft cloth.

6.2 Defrosting

This fridge features an automatic defrost system, minimizing the need for manual defrosting. However, if ice buildup occurs, especially during periods of high humidity or frequent door openings, you may manually defrost the unit by unplugging it and leaving the door open until the ice melts. Place a towel at the bottom to absorb water. Do not use sharp objects to remove ice.

7. Troubleshooting

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

Problem	Possible Cause	Solution
Fridge does not cool or cools insufficiently.	Not plugged in; power outage; thermostat set too high; poor ventilation; refrigerant not settled.	Check power connection. Ensure thermostat is set to a colder setting. Ensure adequate space around the fridge for ventilation. If newly moved, allow to stand upright for several hours (or perform the upside-down/right-side-up procedure as described in Setup).

Problem	Possible Cause	Solution
Internal light not working.	Bulb issue; power issue; door not fully closed.	Check power connection. Ensure door is fully closed. If the fridge is cooling but the light is off, contact support.
Excessive ice buildup.	Frequent door openings; high humidity; door seal not tight.	Minimize door openings. Check door seal for proper closure. Manually defrost if necessary.
Fridge is noisy.	Not level; external vibration.	Ensure the fridge is on a level surface. Absorption fridges are inherently quiet (0dB / 21dB), so any significant noise may indicate an external issue.

If the problem persists after attempting these solutions, please contact Smad customer support for further assistance.

8. Product Specifications

Feature	Specification
Brand	Smad
Model	DSX-30B2E
Part Number	DW30CE
Product Dimensions (W x D x H)	40.2 x 44 x 50 cm
Item Weight	16 kg
Capacity	30 litres
Annual Energy Consumption	226 Kilowatt Hours Per Year
Noise Level	21 dB
Installation Type	Countertop
Form Factor	Compact
Special Features	Reversible Door, 12V/240V 2 Way Fridge, Lock & Keys, LED light for both AC&DC
Colour	Black
Voltage	12 Volts (DC)
Wattage	65 watts
Number of Racks	1

Feature	Specification
Defrost System	Automatic
Door Orientation	Reversible
Door Material	Plastic
Shelf Type	Plastic
Number of Shelves	1
Certification	CE
Country of Origin	China
Number of Doors	1
BEE Star Rating	5 Star

9. Warranty and Support

Smad products are manufactured to high-quality standards. This product comes with a warranty that covers manufacturing defects. Please refer to the warranty card included with your purchase for specific terms and conditions, including the warranty period and claim procedures.

For technical support, troubleshooting assistance beyond what is provided in this manual, or to inquire about free accessory replacement, please contact Smad customer service. Contact details can typically be found on the Smad official website or on your purchase documentation.

Please have your model number (DSX-30B2E) and purchase date ready when contacting support to ensure efficient service.