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TREK SERIES


PLEASE READ & RETAIN USER MANUAL FOR FUTURE REFERENCE

USER MANUAL

Contents

Important Safety Warnings	3-4
Intended Usage & Environment	4
Operating Instructions & Control Panel	5-9
Disconnecting & Handling Instructions	9
Maintenance	10
Defrost	11
Troubleshooting Guide	12
Product Specification	13
EPREL	14
Warranty	14
Environmental Friendly Disposal	14

Important Safety Warnings

- Ensure the appliance's power cable is not trapped or damaged during positioning.
- Refrain from positioning portable power sockets or cables at the rear of the appliance.
- Exercise caution to prevent the risk of child entrapment.
- Maintain adequate ventilation openings around the appliance, ensuring it remains unobstructed without any door coverings.
- Avoid damaging the refrigerant circuit.
- Use only recommended methods to defrost; sharp objects or other tools may cause permanent damage.
- Refrain from using electrical appliances inside the fridge unless manufacturer recommended.
- Before disposing of the appliance, remove doors.
- Never allow children to interact with the appliance, avoid cleaning with flammable liquids, and keep flammable materials away from the appliance.
- Use non-abrasive cleaners or soapy water for cleaning; avoid solvents.
- Symbol ISO 7010 W021 indicates a fire hazard. 
- Maintain a minimum of 3-5cm clearance at the top of the appliance, and a 3-5cm clearance on each side of the appliance for proper ventilation and heat dissipation.
- Minimise the time the door is open to maintain a stable temperature.
- Avoid placing the appliance in damp areas.
- Avoid storing perishable food for extended periods as the indoor temperature may not be sufficiently cold.
- Ensure the power plug has its own socket, grounded to prevent overheating.
- The voltage and frequency should be 220-240V; 50Hz. Contact a qualified local electrician or retailer for electrical cord damage.
- Always disconnect the power by pulling the plug directly, not by the cord.
- Persons with low physical, sensory, and mental capabilities, including children under 8, should use the appliance under supervision. Children must not play with it or perform maintenance unsupervised.
- Keep ventilation openings clear of obstruction.

Important Safety Warnings

- Avoid storing explosive substances in the appliance. It's intended for household, and similar environments.
- Do not use electrical appliances inside food storage compartments unless recommended.
- Faulty parts should be replaced by a certified technician.
- The supply cord should be replaced by the manufacturer or a certified person if damaged.
- This refrigerating appliance is not suitable for built-in installation.

Intended Usage & Environment

The Subcold car fridge freezer is designed for versatility, functioning flawlessly in vehicles at 12V/24V and indoors with a 100-240V adapter. It's perfect for keeping drinks and food chilled on road trips, camping, or at home.

- **Powerful Cooling:** Cools down to -22°C, even in ambient temperatures up to 32°C, ensuring your provisions stay cold.
- **Smart Controls:** Features an intelligent control system with a power-off memory, maintaining your settings between uses. You can adjust temperatures from +24°C to -22°C based on your needs.
- **Battery Protection:** Includes an auto battery protection system to prevent excessive drain, keeping both your vehicle and fridge running efficiently.
- **Compact Design:** Easily fits in cars, SUVs, campers, and boats, making it an essential for any journey.

Travel with Comfort and Convenience

Whether it's for a day trip or a long excursion, the Subcold fridge is your reliable travel companion, ensuring access to fresh and chilled food and beverages throughout your adventure.

Built to be energy-efficient, this fridge offers sustainability without sacrificing performance, suitable for both outdoor adventures and home use. Enjoy the convenience of chilled refreshments wherever you go with the Subcold car fridge freezer.

Operating Instructions & Control Panel

Power Connection and Usage

For Car Use:

DC Power Cord: The unit comes with a 12V/24V DC power cord specifically for use in vehicles. Refer to Image 1 to see how to connect it in your car.

For Home Use:

Power Adapter: For indoor use, there is an optional power adapter that works with the DC power cord. This adapter supports a household alternating current of 100-240V. See Image 2 for details on connecting it at home.



Image 1



Image 2

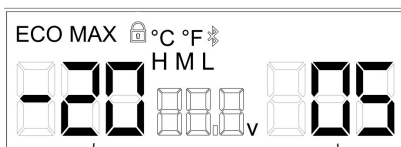
Display and Control Panel Features:

Connectivity and Charging: The control panel includes ports for USB and Type C charging. These ports are protected by a rubber cover to prevent dust and moisture ingress.

Display: The control panel is equipped with a display that provides essential information and settings adjustments.



Trek 20/32/40



Trek-50DZ

Zone 1
(Big Zone)

Zone 2
(Small Zone)

Operating Instructions & Control Panel

Operating Instructions for Your Appliance

Powering On and Off:

To Power On: Briefly press and hold the POWER button for 1 second. This will turn on the appliance and activate the display screen.

To Power Off: Press and hold the POWER button for 3 seconds.

Using the Control Panel:

Unlocking the Screen: After switching the appliance on, if you need to use the control panel, start by unlocking the screen. Press and hold the SET button for 3 seconds; the lock symbol will then disappear from the display. If no action is taken within 30 seconds, the screen will lock automatically, and the lock symbol will re-appear.

Adjusting Temperature: With the screen unlocked, use the + or - buttons to set your desired temperature within the range of -22°C to +24°C.

Switching Modes and Units: Press the SET button to toggle between different operating modes and unit measurements.

Temperature Control and Battery Settings:

Compressor Operation: The compressor will stop operating once the internal temperature reaches the set level.

Battery Settings:

Car Battery: Use the default setting of M gear.

External or Backup Battery: Switch to L gear.

Operating Instructions & Control Panel

Error Handling:

Voltage Issues: If 'E1' appears on the display, indicating a voltage issue, you may need to lower the battery setting by one level (from H to M or L, or from M to L), depending on your vehicle's output voltage.

These instructions are formatted to provide clear guidance for operating your appliance effectively while ensuring optimal performance and safety.

Parameters for 3 Voltage stages of L / M / H

Voltage stage	12V	12V	24V	24V
Action	stop	start	stop	start
L	9.6	11.2	21.4	23
M	10.4	11.7	22.8	24.2
H	11.1	12.4	24.3	25.7

Error code information

Error code	Possible Cause	Solution
E1	Low voltage to fridge	DC-increase the voltage of DC power source/ check all the connection/check the voltage monitor setting
		AC-replace the defective 240V AC adaptor
E2	Condenser Fan fault	Contact after sales to arrange repair
E3	Compressor over pressure	Disconnect the fridge for 20 minutes and attempt restart
E4	Compressor minimum speed fault	Contact after sales to arrange repair
E5	Over temperature for compressor and control unit	Disconnect the fridge for 20 minutes and attempt restart
E6	NTC / temperature sensor failure	Contact after sales to arrange repair

Caution: Voltage Considerations

Operating Instructions & Control Panel

Variable Vehicle Output:

Be aware that the voltage output can vary from vehicle to vehicle. If the display shows an 'E1' error, it indicates a mismatch or issue with the voltage.

Adjusting Voltage Levels: Should this occur, you can reduce the voltage setting by one level— for example, from High (H) to Medium (M), or from Low/Medium (L/M) to Low (L).

Charging Capabilities:

The fridge is equipped with USB and Type-C ports (5V2.1A), suitable for charging mobile phones and other electronic devices. Ensure these ports are covered with the provided rubber cover when not in use to protect against dust and moisture.

Bluetooth Connectivity

The Trek 50 comes with Bluetooth smart technology for easy control.

To control the fridge via Bluetooth, download the Smart Life app from the App Store or Google Play Store, or scan the QR code with your smartphone.



- **Resetting Bluetooth Connection:** Simultaneously press the ON/OFF and SET buttons for 1-3 seconds.

Steps to Connect:

- **Download and Install the App:** Get the Smart Life app from the app store and install it on your device.
- **Power Connection:** Plug in the fridge using the DC or AC power cord and switch it on.
- **Enable Bluetooth:** Activate Bluetooth on your phone. **App Setup:**
 - Open the app and accept the user agreement/privacy statement.
 - Follow the instructions to create an account. After signing up, the screen will display 'Discovering devices'.
 - Click 'Add' to connect the fridge. The device icon will then appear on the next interface.

Operating Instructions & Control Panel

Using the App: With the Bluetooth app, you can access various features of your fridge:

- **Adjust Settings:** Tap the lock icon to unlock; it will automatically re-lock after 30 seconds of inactivity.
- **Temperature Controls:** Check or change the temperature settings and the unit of measurement.
- **Voltage Monitoring:** Check or modify voltage monitor settings.
- **Compressor Speed:** Adjust compressor speed settings.
- **Power Controls:** Turn the fridge on or off.
- **Connection Status:** A paired icon indicates that you are within Bluetooth range and connected to the fridge.

By following these instructions, you can ensure full functionality and convenience with your Bluetooth-enabled fridge.

Disconnecting & Handling Instructions

How to Safely Disconnect Your Compressor Car Fridge

- **Switch Off the Fridge:** Before unplugging the appliance, ensure to turn off the power using the on/off switch on the control panel. This prevents any electrical sparks or damage.
- **Unplug the Appliance:**
 - **Direct Connection:** If your fridge is directly connected to a 12V or 24V DC socket in your vehicle, carefully pull the plug out by holding the connector rather than the cable to avoid damaging the wires.
 - **AC Adapter Use:** If connected to an AC power source via an adapter, first switch off the AC power outlet before unplugging to eliminate any residual current.
- **Inspect the Cord:** After unplugging, check the power cord and plug for signs of wear or damage. Should you find any fraying or cracks, do not use the fridge until it has been inspected and repaired by a professional.
- **Secure the Fridge:** When disconnecting the fridge for transport or storage, make sure it is securely fastened to prevent any movement that might cause damage. Allow the fridge to reach room temperature before moving to minimise the risk of internal damage.
- **Clean and Ventilate:** After disconnecting, use the opportunity to clean both the interior and exterior of the fridge as per the manufacturer's guidelines. Leave the door open for a few hours to ventilate and prevent mildew or unpleasant smells if the fridge is to be stored for a lengthy period.

By adhering to these steps, you can ensure that your compressor car fridge is disconnected safely and effectively, thus preserving its functionality and prolonging its life.

Maintenance

Interior Maintenance:

- Clean the interior of the appliance with clean water or neutral detergent. Clean thoroughly and wipe it dry with a clean cloth.

Maintenance of the Door Gasket:

- Carefully clean the door gaskets to prevent damage, especially if they are polluted by stains like oil or sauce.

Outer Maintenance:

- Wipe away dust with a dry cloth, and use a neutral detergent for deeper cleaning if necessary.
- Power Supply Precautions:
- Before cleaning, turn off the cool-heat switch and unplug the fridge from the power source. Avoid unplugging while the control switch is in the "on" position.

Cleaning Instructions:

- Clean the surfaces of the fridge with a soft, warm cloth and a mild, non-hazardous detergent. Ensure the switch is turned off and the fridge is unplugged before cleaning.

Avoid Water Exposure:

- Do not expose the fridge to water directly. Take care to prevent water from splashing on working parts such as the heat dissipation outlet, switch, or socket, as this may cause electrical damage or shock.

Fan/Vent Maintenance:

- Hoover the fan/vent where accessible to clear any debris or dust buildup. Regular maintenance of these areas helps ensure optimal performance.

Defrost

Excessive frost accumulation can impact the appliance's refrigeration efficiency and escalate energy consumption. Therefore, defrosting becomes necessary when the frost reaches a thickness of 5 mm. The manual defrosting process involves the following steps:

- Remove all contents from the appliance.
- Unplug the power cable.
- Open the door and wait for the natural thawing process.
- Wipe away the defrost water with a dry cloth.

Caution: Do not employ alternative equipment or methods to aid the defrosting process, as it may cause damage to the cooling system.

Additional Information:

- Ensure to regularly check and defrost the appliance to maintain optimal performance.
- Avoid using sharp objects to scrape off frost, as it may damage the interior surfaces.

Troubleshooting Guide

PROBLEM	POSSIBLE CAUSES & SOLUTIONS
The appliance does not work	<ul style="list-style-type: none">• Confirm if the power supply is functioning correctly.• Ensure the connectors are securely connected.• Check if the fuse has blown.• Verify if the power is switched on, indicated by the panel's illumination.
Poor Operation	<ul style="list-style-type: none">• The gasket on the cover is not closed or is damaged or deformed, resulting in an inadequate seal.• Poor external ventilation of the refrigerator, with obstructions covering the inlet or outlet, or insufficient space for heat dissipation.• Incorrect temperature settings.
Recommended Temperature Settings	<ul style="list-style-type: none">• Red wine storage (10°C)• Fruits (4°C to 6°C)• Beverages (2°C to 5°C)• Meat (-10°C)• Ice cream (-15°C)

Product Specification

Model	TREK20	TREK32	TREK40	TREK50-DZ
Colours	Black + Grey	Black + Grey	Black + Grey	Black + Grey
Cooling System	BX Compressor Cooling	BX Compressor Cooling	BX Compressor Cooling	BX Compressor Cooling
Temperature Range	+24°C to -22°C	+24°C to -22°C	+24°C to -22°C	Dual-zone +20°C to -20°C
Climate Class	N	N	SN/N/ST/T	SN/N/ST/T
Net Volume	20L	32L	40L	50L
Energy Class	D	D	E	D
Noise (dB)	35dB	36dB	40dB	43dB
External Dimensions (WxDxH)	668x350x345 (mm)	665x350x455 (mm)	690x410x445 (mm)	775x460x510 (mm)
Internal Dimensions (WxDxH)	485x260x238 (mm)	485x260x348 (mm)	510x323x332 (mm)	Zone 1: 322x283x398 (mm) Zone 2: 322x193x207 (mm)
Packing Dimensions (WxDxH)	690x410x405 (mm)	680x410x515 (mm)	735x485x505 (mm)	831x510x570 (mm)
Gross Weight	15kg	16kg	19.5kg	23.9kg
Net Weight	13.5kg	14.2kg	17.5kg	21.3kg
Door Material	Plastic	Plastic	Plastic	Plastic
Lighting (W)	0.7W	0.7W	0.7W	0.7W
Input Power (W)	45W	50W	50W	55W
Voltage range	AC 100-240V / DC 12-24V	AC 100-240V / DC 12-24V	AC 100-240V / DC 12-24V	AC 100-240V / DC 12-24V
Refrigerant gas	R1234yf	R1234yf	R1234yf	R1234yf
Refrigerant grams	20g	24g	25g	29g
Lock and Key	Press SET in 3seconds	Press SET in 3seconds	Press SET in 3seconds	Press SET in 3seconds
Certification	CE, UKCA, ERP	CE, UKCA, ERP	CE, UKCA, ERP	CE, UKCA, ERP
Plugs included	DC Cord & UK AC Adapter	DC Cord & UK AC Adapter	DC Cord & UK AC Adapter	DC Cord & UK AC Adapter

**Dual-zone: one is a large box (located far from the display panel), the other is a small box (located close to the display panel)*

EPREL

The appliance's actual consumption is influenced by its usage and location. Please note that this appliance is specifically designed for non-perishable storage. For detailed model information, refer to the product database outlined in Regulation (EU) 2019/2016, accessible via the following link or by scanning the QR Codes below:

<https://eprel.ec.europa.eu/screen/product/refrigeratingappliances2019>



TREK20



TREK32



TREK40



TREK50-DZ

Warranty Registration

To register your product warranty, kindly visit www.subcold.com/pages/product-registration and fill out the online form.

Environmental Friendly Disposal



To avoid any harm to the environment or human health caused by improper disposal of electrical waste, recycle the appliance responsibly to promote the reuse of material resources. Disposal must be done safely at public collection points provided for this purpose.

Older refrigerators may contain CFCs that destroy the ozone layer; contact your nearest waste treatment centre for more details on proper disposal procedures.



sales@subcold.com



01506 440557



[@subcoldltd](https://www.facebook.com/subcoldltd)



[@subcold_official](https://www.instagram.com/subcold_official)

Subcold Ltd.

28/2 Firth Road
Houstoun Industrial Estate
Livingston, EH54 5DJ, United Kingdom.
www.subcold.com

Authorised Representative

Authorised Rep Compliance Ltd.
Ground Floor, 71 Lower Baggot Street
Dublin, D02 P593, Ireland.
www.arccompliance.com