

# CoolingBox Dreiha **MANUAL**



Modelo  
**CoolingBox** Dreiha **18 / 25**  
CBX18 CBX25

**Dreiha**

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# Contents

<b>General Information &amp; Safety Instructions.....</b>	<b>2</b>
ELECTRICAL SAFETY & CORD HANDLING.....	2
<b>APPLIANCES AND ACCESSORIES .....</b>	<b>3</b>
<b>Getting Started. ....</b>	<b>3</b>
<b>OPERATING YOUR FRIDGE/FREEZER. ....</b>	<b>4</b>
POWER REQUIREMENTS.....	4
OPERATING WITH 12/24V DC.....	4
OPERATING WITH 100~240V AC. ....	5
<b>TEMPERATURE CONTROL/GENERAL OPERATION.....</b>	<b>5</b>
POWER- OFF AND ON.....	5
CABINET TEMPERATURE - SETTING.....	6
BATTERY MONITOR - SETTING.....	6
CAUTION WHEN CLEANING.....	6
<b>TIPS, MAINTENANCE &amp; SERVICE .....</b>	<b>7</b>
<b>TROUBLESHOOTING .....</b>	<b>8</b>
<b>ERROR CODE INFORMATION .....</b>	<b>9</b>
<b>OTHER SETTINGS .....</b>	<b>9</b>
<b>PRODUCT SPECIFICATIONS.....</b>	<b>10</b>

Thank you very much for choosing our product. Please read these operating instructions carefully before putting them into operation. Keep the operating instructions for future reference.

# GENERAL INFO & SAFETY INSTRUCTIONS

**Read this manual thoroughly before first use**, even if you are familiar with this type of product. The safety precautions enclosed herein reduce the risk of fire, electric shock and injury when correctly adhered to. Keep the manual in a safe place for future reference, along with the purchase receipt and the packaging. If applicable, pass these instructions on to the next owner of the appliance.

Always follow basic safety precautions and accident prevention measures when using an electrical appliance, including the following:

## 1.1 ELECTRICAL SAFETY & CORD HANDLING.

- **Correct voltage:** Make sure your local outlet voltage and circuit frequency corresponds to the voltage indicated on the appliance rating label.
- **NOTE: Intended use:** This is a portable product, designed for private use. It is exclusively designed for use in cars, caravans and other vehicles including mobile homes, campervans, on trains and in boats. It is designed to cool food and beverages and to be set up in dry, weather protected areas. It is not intended for extended stationary use e.g. as a second fridge at home.
- **Safe connection:** Insert the plug firmly into a properly earthed AC mains or 12V DC socket Do not alter the plug.
- **Protect from moisture:** To protect against electric shock, do not immerse the cable, plug or the appliance itself in water or other liquid. Ensure your hands are dry before handling the plug or switching on the appliance. Do not use it on wet surfaces.
- **NOTE:** Installation of AC in boats should be carried out by a qualified electrician.
- **Protect the power cable.** Do not kink or damage the power cable. Do not wrap it around the appliance. Do not pull the unit by the cable. Do not use the cable as a handle, close a door on the cable or pull the cable around sharp edges or corners. Keep the cable away from hot surfaces.
- **Never touch uninsulated cables with bare hands.** This applies specially to handling AC cables.
- **For installations in boats:** If the device is AC mains operated, it is important that the system is protected by a fuse and an earth leakage protection device.
- **Always ensure that the correct voltage** is applied to the Fridge/Freezer. The voltage is stated on the Fridge/Freezer's data plate.
- **Never obstruct vents** to the Fridge/Freezer's compressor.
- **Defrost the Fridge/Freezer** on a regular basis.
- **Never use hard or sharp implements** to remove ice from the cooling compartment.
- **Never use abrasive or solvent based** materials when cleaning the cooling compartment.
- **Do not use any electrical appliances** inside the cooling compartment.

- **NOTE:** This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.
- Do not expose to rain.
- This appliance is suitable for camping use.

## APPLIANCES AND ACCESSORIES

No.	Name
1	Door handle
2	Sealing ring
3	LED Inner Light
4	Freezer Zone
5	Fridge Zone
6	USB interface
7	Radiator
8	Display Screen
9	Handle
10	Power line interface
11	DC power cable
12	AC adaptor



# GETTING STARTED

## INSTALLATION

After unpacking the Fridge/Freezer check that no parts are missing. Place the unit in a dry place which is protected from water. Do not place directly adjacent to sources of heat such as heating, gas ovens, hot water, pipes or under direct hot sunlight.

It is important that your appliance is installed and operated in accordance with these instructions to guarantee its performance, efficiency and operation.

## APPLICATION & OPERATION

### COOLING RANGE

The cooling compartment has varying temperature zones. The values indicated on the digital display are related to the centre of the cabinet.

The Fridge/Freezer is designed to either refrigerate or freeze food, it can also be used as a fridge or a freezer. The Fridge/Freezer may be used for outdoor use such as for camping purposes.

If you wish to refrigerate medicines, first check to ensure the Fridge/Freezer's cooling capacity meets the demands of the respective medicines.

The Fridge/Freezer is designed to operate in ambient temperatures between  $-10^{\circ}$  and  $+55^{\circ}$  C in a maximum air humidity of 90% and can operate continuously at a maximum angle of  $30^{\circ}$ .

➤ **Note:** The normal operation of the appliance requires heat to be radiated away from the condenser located at the end of the cabinet. Adequate airflow is required around the compressor at all times.

The cooling system has been designed to operate correctly when the appliance is positioned on slopes of up to 30 degrees. It is recommended that the period of time the unit is exposed to angles over 30 degrees is limited to a maximum of four (4) hours of continuous operation.

# OPERATING YOUR FRIDGE/FREEZER

## POWER REQUIREMENTS

The Fridge/Freezer is designed to operate on AC or DC voltage.

- AC input 100-240V AC at 50~60Hz to ac adaptor
- DC input 12V or 24V DC (e.g. car cigarette lighter or car battery)
- If the Fridge/Freezer is operating when the vehicle ignition is switched OFF, the Fridge/Freezer will switch OFF automatically unless the vehicle is fitted with a dual battery system.
- The Fridge/Freezer will automatically switch back ON when the vehicle is re-started and the power source voltage reaches the Battery Monitor cut-in setting.

## OPERATING WITH 12/24V DC

- Plug the 12V/24V DC power cable into the DC POWER socket on the side of the Fridge/Freezer and then connect to the vehicle cigarette lighter socket or suitable 12V or 24V DC power source.
- The Fridge/Freezer will automatically turn on, there is no requirement to switch the appliance on.
- The display will automatically show the current internal cabinet temperature.
- For optimum performance and efficiency, it is important that the Fridge/Freezer has a reliable DC power source available.
- Use only the DC power cable supplied with the Fridge/Freezer.

As a protection for your battery, the Fridge/Freezer switches OFF automatically if the power source voltage is insufficient. The fridge will only restart when the voltage reaches the cut in level.

## OPERATING WITH 100~240V AC

- Plug the 100~240V AC power adaptor & cable into the Fridge power socket on the end of the Fridge/Freezer and then connect to a suitable 100~240V AC power source.
- The Fridge/Freezer will automatically turn on, there is no requirement to switch the appliance on.
- The display will automatically show the current internal cabinet temperature.
- The Fridge/Freezer is equipped with a multi-voltage internal power supply with priority circuit for connecting to an AC voltage power source of 100~240V.

**CAUTION:** Do not touch cables, plugs or switches with wet hands or when your feet are in contact with water!



## TEMP CONTROL/GENERAL OPERATION

When your Fridge/Freezer is first connected to the AC or DC power input the appliance will automatically switch on and the LCD control panel will display the current cabinet temperature, battery monitor and Eco setting as well as the current input voltage.

- The Temperature Controller provides the ability to set the desired temperature level and display the current

cabinet temperature. The electronic controller has been programmed to maintain an average of the set temperature.

**POWER- OFF AND ON**

- Press button “START” to switch ON/OFF.
- Press +or - or temperature setting.
- Press setting and choose ECO(Energy-saving) or MAX (Fast cooling). Factory setting is MAX
- Long press “SET” for three seconds. When H flashes on the screen, select three battery protection modes H(High), M(Middle) and L(Low) by pressing setting button again. Factory setting is H.5. Input voltage

**Note:** Maximum temperature settings are from -20°C to +20°C.

1. Press power button & the fridge will go into standby mode then switch off after 5 seconds
2. Press the power button & the fridge will re-start with the previously selected settings
3. The temperature display will flash when selecting the temperature & return to solid display when showing the actual internal temperature

**CABINET TEMPERATURE- SETTING**

1. Adjust the temperature by pressing the + button to increase or the - button to decrease the temperature.
2. The temperature display will flash when selecting the temperature & return to solid display when showing the actual internal temperature

**BATTERY MONITOR- SETTING**

In the standby mode, press and hold “setting” for 5 seconds to enter the battery protection setting mode, and press + or - to set the (H) high, (M) middle and (L) low battery protection.

12V DC input	Cut out	Cut in
LOW	9.6V	10.9V
MEDIUM	10.1V	11.4V
HIGH	11.1V	12.4V

24V DC input	Cut out	Cut in
LOW	21.3V	22.7V
MEDIUM	22.3V	23.7V
HIGH	24.3V	25.7V



# TIPS, MAINTENANCE & SERVICE

## TIPS AND SUGGESTIONS

- Fresh and frozen foods should not be stored beside each other in the cabinet. Doing so may cause fresh food to freeze and/or spoil.
- When the appliance is set at temperatures of 0° or lower, do not store glass bottles or liquids such as beer, milk, juices or soft drinks in the unit as these may freeze and shatter, leak or burst.
- Items such as fruit and vegetables should be stored closer to the top of the cabinet as this area is normally slightly warmer. This will reduce the risk of spoiling and ensures that damage is not caused by being crushed by heavier items.
- To improve the efficiency of your Fridge/Freezer it is best to have the cabinet as full as possible at all times. A full cabinet will have lower power consumption compared to a half empty one. When the cabinet is full there is little air space between the goods and the cold air is trapped. When there is a large air space the cold cannot be captured and held. On a trip it is a best to replace finished products with bottles of water or similar. This will fill the empty spaces and keep the coldness of the cabinet.
- Frequent opening of the lid will allow warm air to enter the cabinet. Where possible keep the number of times you open the lid to a minimum.
- When located in the rear of a car or trailer, it is recommended that the appliance is kept away from direct sunlight to reduce the risk of increased heat. It should also be provided with suitable ventilation to guarantee efficient power consumption and performance. Remember that when a vehicle is parked in the sun that on a day where the ambient temperature is +30°C, the interior of the vehicle can reach +55°C.

## MAINTENANCE & SERVICE

Your Fridge/Freezer is delivered cleaned by the factory - you should nevertheless clean it prior to first using it. Use a cloth which has been slightly moistened with lukewarm water. Take care that no water drops into the seals as this could possibly damage the electronics. Clean your Fridge/Freezer periodically and whenever it gets dirty.

### CAUTION WHEN CLEANING:

- **DO NOT** use solvents or agents with sand or acid in them for cleaning your Fridge/ Freezer.
- **DO NOT** use brushes, graters or hard / sharp tools to clean your Fridge/Freezer.
- Before cleaning, the power cable should be disconnected and the Fridge/Freezer switched OFF.
- Clean the Fridge/Freezer inside and out with a damp cloth. For stubborn dirt, use some sodium bicarbonate dissolved in lukewarm water.
- After washing, rinse with clean water and dry carefully.

**For additional queries, service and maintenance please contact our After Sales Support. They will provide you with expert advice on further information you may require.**

## DISPOSAL



When it comes to the end of its working life, your Fridge/Freezer should be disposed of responsibly to ensure that it does not contaminate the environment. It would be advisable to contact your local council for advice on the disposal of this unit.

## TROUBLESHOOTING

Issue	Possible Solutions
The Fridge/Freezer will not turn on	Check the unit is switched ON - Press the button to turn on
	Check the power source (voltage may be too low)
	Check the power cable and all connections from the power source to the Fridge/Freezer
The contents of the fridge are freezing or setting	The temperature has been set too low, therefore increase the temperature setting.
Poor refrigeration performance	The ambient temperature is very high
	There is poor ventilation around the fridge
	Ensure power source has sufficient voltage
	Ensure the lid is closed properly
	The temperature of the food put inside the fridge is too high
	The temperature is not set correctly
There is a "water flow" type of noise from inside the unit	This is normal, it is caused by the flow of refrigerant.
There is a noise from the unit	Ensure the unit is on a flat level surface
	Check for vibrations in surrounding objects
Fridge/Freezer does not work and the display does not illuminate	There is no voltage present in the 12V/24V cigarette lighter socket in your vehicle. The ignition must be switched ON in most vehicles to apply current to the cigarette lighter socket
	No voltage present in the AC voltage socket. Try using another plug socket
	The 240V AC adaptor is defective. This can be replaced by contacting after sales support
Fridge/Freezer does not work and display does not illuminate when operating from the 12V/24V cigarette lighter socket with ignition switched ON	The cigarette lighter socket fuse in the vehicle is defective and needs to be replaced. The cigarette lighter socket in the vehicle must be cleaned or the plug has not been assembled correctly.
The display shows an error message (F1)	Connected to DC power source, the Fridge/Freezer has switched off.
	This may be due to low voltage. Check Battery Monitor setting is on LOW.
	Re-start the vehicle to increase the battery voltage level. Test and charge the battery and the Fridge/Freezer

	The Fridge/Freezer has switched off due to an internal fault. Contact After Sales Support
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## ERROR CODE INFORMATION

Error Code	Possible Cause	Solution
F1	Low voltage to fridge	DC - Increase voltage of DC power source/Check all connections
		AC - Replace defective 240V AC Power adaptor
F2	Condenser Fan Faulty	Contact After Sales Support to arrange repair
F3	Compressor over pressure	Disconnect power to the fridge for 20 minutes & attempt to re-start
F4	Compressor not starting	Contact After Sales Support to arrange repair
F5	Over Temperature of the compressor & electronics	Disconnect power to the fridge for 20 minutes & attempt to re-start
F7	Temperature Sensor Faulty	Contact After Sales Support to arrange repair

## OTHER SETTINGS

Standby mode, Press the "SET" button until it displays "E1". Press the "SET" button, it will display settings of "E1", "E2", "E3", "E4", in accordance with the order cycle. Choose the setting you need, and press "UP" or "DOWN" button to change and set the parameter.

Setting	Function	Setting Range	Factory Default
E1	Lowest temperature setting	-40°C~Highest temperature setting	-20°C
E2	Highest temperature setting	Lowest temperature setting~40°C	+20°C
E3	Temperature return setting	1~10°C	3°C
E4	Soft start setting	0~10 minutes	2 minutes
E5	Fahrenheit and Celsius setting	F or C	C
E6	Temperature compensation for temperature set $\geq 7^{\circ}\text{C}$	-10°C~10°C	0°C
E7	Temperature compensation for temperature set range $-7^{\circ}\text{C}\sim-12^{\circ}\text{C}$	-10°C~10°C	0°C
E8	Temperature compensation for temperature set range $\leq -13^{\circ}\text{C}$	-10°C~10°C	0°C

**Note:** Displayed temperature= detected temperature+ temperature compensation

## SPECIFICATIONS

Model	CBX18	CBXK25
Capacity:	18	25L
Cooling performance:	-20°C~+20°C	
Average power consumption:	45w+/-5W	
Rated Voltage AC (Adaptor)	100V - 240V 50-60Hz	
Rated Voltage DC	12V/24V	
Rated Current for AC(Adaptor)	1.2A- 0.5A	
Rated Current for DC	5.0A(12V)/2.5A(24V)	
Weight	12.1kg	12.86kg
Unit Dimensions L*W*H (mm):	585x335x290	585x335x350
Climatic Category	T/ST/N/SN	
Protective Classification of Electric Shock Resistance	III	
Refrigerant capacity (g)	24g	

**Manufacturer:**

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(Made in China)

# CoolingBox

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Leader in HVAC systems  
and innovation



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