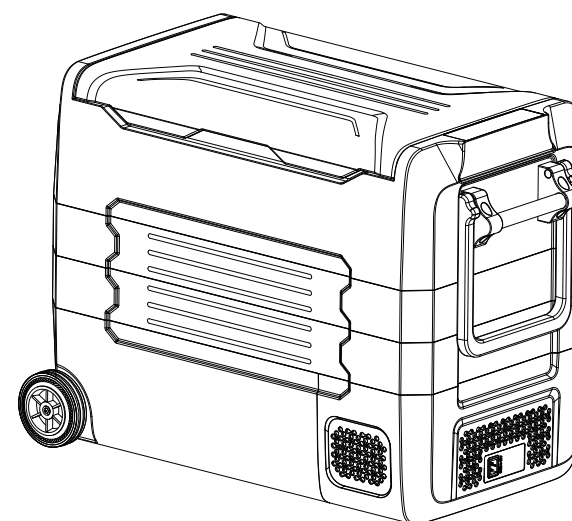


# Costway



## **USER'S MANUAL**

### **Car Refrigerator AX10001US**

THIS INSTRUCTION BOOKLET CONTAINS **IMPORTANT** SAFETY INFORMATION. PLEASE READ AND KEEP FOR FUTURE REFERENCE.

**Please give us a chance to make it right and do better!**

Contact our friendly customer service department for help first.

Replacements for missing or damaged parts will be shipped ASAP!

**Follow Costway**



# Contact Us!

## Do NOT return this item.

Contact our friendly customer service department for help first.

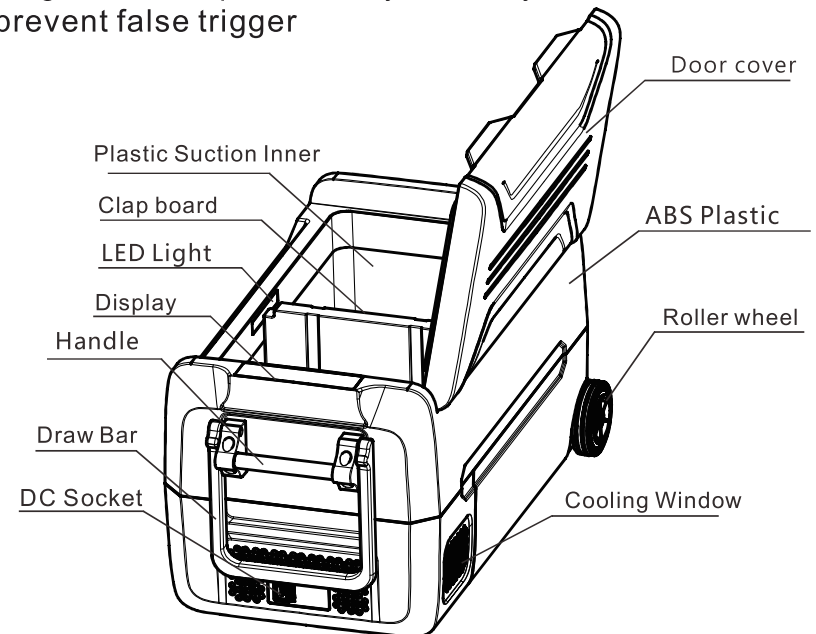


# Before You Start

- ⚠ Please read all instructions carefully.
- ⚠ Retain instructions for future reference.
- ⚠ Separate and count all parts and hardware.
- ⚠ Read through each step carefully and follow the proper order.
- ⚠ We recommend that, where possible, all items are assembled near to the area in which they will be placed in use, to avoid moving the product unnecessarily once assembled.
- ⚠ Always place the product on a flat, steady and stable surface.
- ⚠ Keep all small parts and packaging materials for this product away from babies and children as they potentially pose a serious choking hazard.

## Product function introduction

- ◆ High quality DC variable frequency compressor and drive module are adopted to build a high-efficiency, energy-saving, stable and reliable mobile refrigeration system.
- ◆ Microcomputer intelligent control system, easy to operate, accurate temperature control.
- ◆ Innovative intelligent dual temperature zone function, freezes / refrigerates the space to switch at will, satisfies the different storage demand.
- ◆ Compatible with a variety of power input, intelligent recognition of DC12 / 24 V voltage, meet the needs of various scenes, car, marine, home, outdoor at will.
- ◆ With the function of voltage detection and low voltage protection, it can effectively prevent the car battery from over discharging.
- ◆ The inner liner is made of grade plastic materials, which is safe, anti leakage and anti odor.
- ◆ Built in LED lighting, more convenient to use at night.
- ◆ High definition LED digital display.
- ◆ Intelligent touch operation keys and keyboard child lock function to prevent false trigger



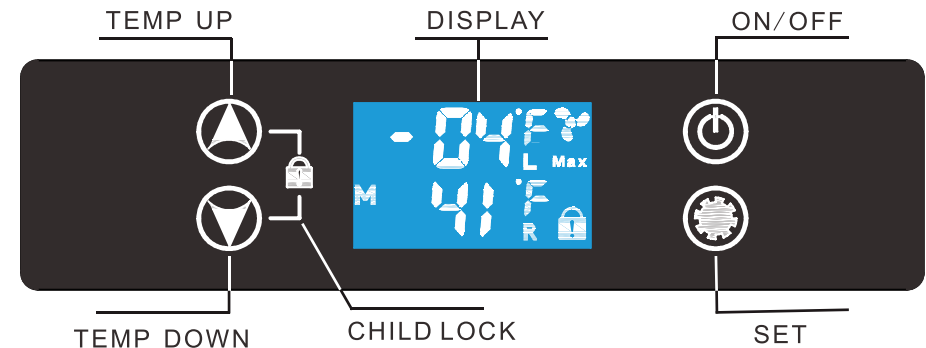
## Product safety

- ◆ Do not touch the exposed power cord with hands
- ◆ Do not bring water to touch the power socket and power panel, which may cause danger
- ◆ When using this product on board, please make sure that the power supply lines and fuses have enough carrying current
- ◆ If the AC device is used in the car, RV and yacht, it needs to be installed by professional personnel
- ◆ Make sure the power connection is correct
- ◆ Do not immerse this product in water
- ◆ Do not put cans, beer, etc. into the refrigerator for low temperature freezing
- ◆ Do not place any electrical equipment in the refrigerator
- ◆ Only professional personnel are required for maintenance service, or please contact your seller
- ◆ Do not expose the product to rain or strong sunlight for a long time
- ◆ After receiving and unpacking the refrigerator, please leave it standing for more than 3 hours before power on

## Precautions for use

- ① When using the refrigerator, please place it in a well ventilated place, which is conducive to heat dissipation. Especially, the gap between the cooling hole on the compression side and other objects must be greater than 100 mm (4"), so as to prevent high temperature from causing failure or affecting the refrigeration effect.
- ② Please do not open the door for a long time, the temperature difference between the inside and outside of the refrigerator will be too big and frosting will affect the refrigeration effect.
- ③ Do not clean the refrigerator under tap water.
- ④ Do not use the refrigerator near the heat source, it will reduce the refrigeration performance of the refrigerator.
- ⑤ Please use the refrigerator on a flat surface. Do not use it at a large angle for a long time. It may affect the service life of the refrigerator and reduce the refrigeration efficiency.

## Precautions for basic use



Temperature control range: -4°F -50°F

Standard voltage input range: DC12V / 24V, maximum not exceeding DC30V

### 1. Refrigerator opening and closing operation:

Connect the correct DC12 / 24 V power supply. If the refrigerator is in standby mode, the "OFF" symbol will be displayed in the middle of the display screen after the refrigerator completes the self-test. At this time, long press the on / off key for 3 seconds to complete the start-up. After the start-up, the display screen will normally display the current temperature in the incubator, working mode and other characters. After the start-up delay (1 minute preset from the factory), the refrigerator works in the working mode, and the compressor starts to work for refrigeration. To turn off the refrigerator, press the on / off key for 6 seconds while the keyboard is unlocked.

### 2. Refrigerator keyboard locking and unlocking operation:

If the keyboard is locked (the child lock icon in the lower right corner of the display is on), press and hold the "up / down" key for 6 seconds at the same time to release the lock. If the child lock icon is not on and there is no operation for 30 seconds, it will automatically enter the keyboard lock state.

### 3. Refrigerator temperature setting operation:

When the keyboard is unlocked, press the "up / down" key to adjust the temperature rise or fall of the refrigerator (a group of temperature

values on the display screen flicker to display the current setting value. Each time you press the key, the temperature rises or falls by 1 degree. If you hold the key, you can quickly adjust to the required temperature value. If there is no change within 5 seconds, the setting value will be saved automatically.

#### 4. Compressor working mode setting:

When the keyboard is unlocked, press the "set" key to freely switch the compressor working mode "Eco / Max". If you need to quickly cool to a lower temperature, switch to the "Max" mode. If you only need to refrigerate or keep warm, you can set to the "Eco" mode to save energy and power.

#### 5. Low voltage protection function setting:

This product has the function of low voltage protection. When it detects that the battery voltage is lower than the set value, it will automatically turn off the compressor to prevent over discharge from damaging the battery or causing the car unable to start normally. At this time, the display screen will display "E1" code prompt. If the voltage returns to normal, the refrigerator will automatically enter the working state one minute later. The factory default is "medium". If you need to change it, please follow the following steps:

a: Unlock keyboard

b: Long press the "set" key for 6 seconds, release it after hearing the beep of the buzzer, and then press the "set" key for a short time. At this time, one of the battery protection level icons "L, m, H" on the display will flash, and then press the "up / down" key to change the setting. Specific value

Battery protection	12Vcut-off	12Vcut-in	24Vcut-off	24Vcut-in
Low	9.6V	10.9V	21.3V	22.7V
Med	10.4V	11.7V	22.8V	24.2V
High	11.1V	12.4V	24.3V	25.7V

**Note:** if your refrigerator enters the battery protection ahead of time, it is likely that your power supply voltage is insufficient and the low voltage protection value is set too high. Or your DC power supply wiring is not suitable, can not provide enough current. Check whether the power supply wiring is suitable, and consider appropriately lowering the battery protection gear.

In order to ensure that the car can start normally, it is recommended to

set the protection level at "H" when using the refrigerator on the car

#### 6. Single and double temperature zone function:

This product has the function of automatically identifying the temperature zone. Inserting the middle partition, the default is double temperature zone. The left zone is the freezing zone, and the right zone is the refrigeration zone. At this time, the temperature of the freezing zone can be adjusted. Remove the diaphragm to use it as a single temperature zone, and the temperature is subject to the actual set value

#### Cleaning and maintenance

Before cleaning, it is necessary to disconnect the power supply and wipe the inner and outer surfaces of the refrigerator with a cleaning cloth dipped with an appropriate amount of water or detergent. It is not allowed to wash directly with water to avoid damaging electrical components.

When the refrigerator is not used for a long time, it is necessary to clean the inside and outside of the refrigerator and keep it dry, and take moisture-proof and dust-proof measures to avoid mildew and peculiar smell inside the refrigerator.

#### Error code description

When the compressor, module, fan and temperature sensing head are abnormal and the input voltage is too low, the error code will appear on the display screen, and the compressor will stop working. When the abnormality is eliminated, unplug the power supply and plug it in again to return to the temperature display in the box, and the refrigeration mode of the compressor will start to work in 1 minute.

Error code	Problem description	Resolvent
E 0	Temperature sensing head is damaged	Check or replace the temperature sensing head
E 1	Input voltage too low	Check the input voltage and adjust the battery protection level
E 2	DC fan over current protection	Check the cooling fan
E 3	Abnormal start of compressor	Turn off the power and let it stand for 30 minutes
E 4	Abnormal compressor speed	Adjust compressor operation mode (MAX/ECO)
E 5	Module temperature too high	Move the refrigerator to a ventilated place to lower the module temperature

## Frequently asked questions

### ◆ If the product does not work properly:

1. Check whether the power is on
2. Check whether the voltage is too low
3. Check all connections from battery to refrigerator for looseness or poor contact
4. Check the fuse
5. Check whether the refrigerator is turned on
6. Is the temperature set too high

### ◆ If the refrigeration performance is poor:

1. Too much food is put in the refrigerator
2. The temperature of the food in the refrigerator is too high
3. The door is not closed properly
4. Whether the door seal (sealing ring) is damaged
5. Whether the ventilation around the refrigerator is good
6. The environment temperature is too high;
7. Incorrect temperature setting

### ◆ Can hear the sound of "water flowing" in the refrigerator

This is normal. It is caused by the flow of refrigerant

### ◆ When the refrigerator starts, the sound is loud

1. Is the refrigerator placed on a flat horizontal surface for use
2. Check the surrounding objects for vibration
3. At the moment of starting the compressor, when the motor runs from static to high speed, the sound will be a little louder  
After the speed is stable, the sound will decrease, which is a normal phenomenon

### ◆ There are water drops around the shell or door seal

It is normal for moisture in humid air to liquefy and condense water droplets when it comes into contact with a lower temperature shell











## ◆ Freezing in the cold storage area

The temperature of the frozen zone can be appropriately raised

## Technical parameter

Model	AX10001US
Input voltage	DC12V/24V , AC 100~240V
Temp control range	-4°F -50°F
Cryogen	R134a
Insulation material	C <sub>5</sub> H <sub>10</sub> Cyclopentane
Rated power	50W
Rated current	3.7A /1.8A

## Recommendations for optimum storage temperature

	Purified water	41°F
	Drinks	41°F
	Fresh juice	46°F -50°F
	Red wine	55°F
	Fruits	41°F -46°F
	Vegetables	37°F -50°F
	Cooked Food	39°F
	Seafood	26°F
	Meat	-4 °F
	Frozen Foods	-4 °F

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We would like to extend our heartfelt thanks to  
all of our customers for taking time to assemble  
this product and giving us valuable feedbacks.

