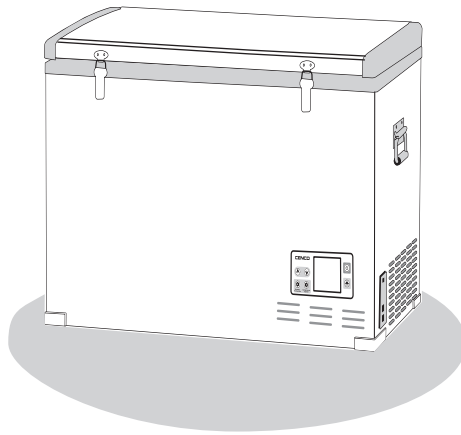


# CENCO

## User Manual and Product Specifications



Part No. BCD45---45L  
BCD60---60L

# IMPORTANT

Read instructions before operation.

## The character of the product

- The best electronic technology, high efficiency, low energy consumption
- Multi-voltage system (DC 12/24 Volt )
- Battery protection, protect your vehicle battery efficiently

### 1.Safety Instructions

Warning: Do not touch exposed cables with your bare hands, especially applies when operating the appliance from an AC mains.

Warning: It is dangerous to touch the plug when your hand is wet.

When using the refrigerator in the vehicle or boat, please make sure the electricity has a fuse if using the mains power.

The installation of the DC power source in the boat should be handled by the qualified personnel.

Make sure the voltage is right. On the technical data label there is the voltage data.

Do not place any electrical devices inside the refrigerator.

**Please keep the appliance away from substance, which can cause ignition.**

The appliance is not intended for use by young children or infirm persons unless they have been adequately supervised by a responsible person to ensure that they can use the unit safely.

Young children should be supervised to ensure that they do not play with the appliance.

### 2.Notes on using the product

- Your refrigerator requires good ventilation, especially around the back of the refrigerator, allow a gap of at least 200mm around the back and 100mm around the right.
- Avoid humidity: Humidity inside the appliance can form frost and impair cooling. Therefore, defrost it before this happens. Never clean the appliance under running water or in dish water.
- Avoid placing your refrigerator near a heat source. This helps the refrigerator to work more efficiently and keep the contents cool.
- Place the refrigerator on a flat surface and away from any edges. When placing the refrigerator into the car, please use the belt to fasten it.

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## 3. Operation







➤ **Power:** The 12/24V and mains power can both be present at the same time, the device will always set itself on mains power priority feeding by 100-120V / 220-24V. The electronic device can control the compressor system and have the function of battery protection. When the input voltage comes to the minimum, it can stop the compressor; when the voltage comes back to the normal value, the compressor will rework automatically.

➤ **Battery Protection:** Selecting the Low, Med, High positions of the switch, you can choose different levels for battery protection. Here below you can find the battery tension values when the compressor stops running (cut-out) and when the compressor restarts working

| Battery protection | 12V CUT-OUT | 12V CUT-IN | 24V CUT-OUT | 24V CUT-IN |
|--------------------|-------------|------------|-------------|------------|
| LOW                | 10.2V       | 11.2V      | 21.6V       | 23.0V      |
| MED                | 10.7V       | 11.7V      | 22.6V       | 24.0V      |
| HIGH               | 11.7V       | 12.7V      | 24.6V       | 26.0V      |

(cut-in).

➤ **Battery electric power display**

| Battery | section | LCD Display                                                                         | Battery level |
|---------|---------|-------------------------------------------------------------------------------------|---------------|
|         | 1       |  | 10.7V         |
|         | 2       |  | 11.2V         |
|         | 3       |  | 11.7V         |
|         | 4       |  | 12.2V         |
|         | 5       |  | 12.7V         |
|         | 6       |  | 13.2V         |

➤ **Buzzing**

1. If you press any button, the refrigerator will have a buzzer alarm sound.
2. The battery gauge to display the gear to 1, a buzzer alarm sound.

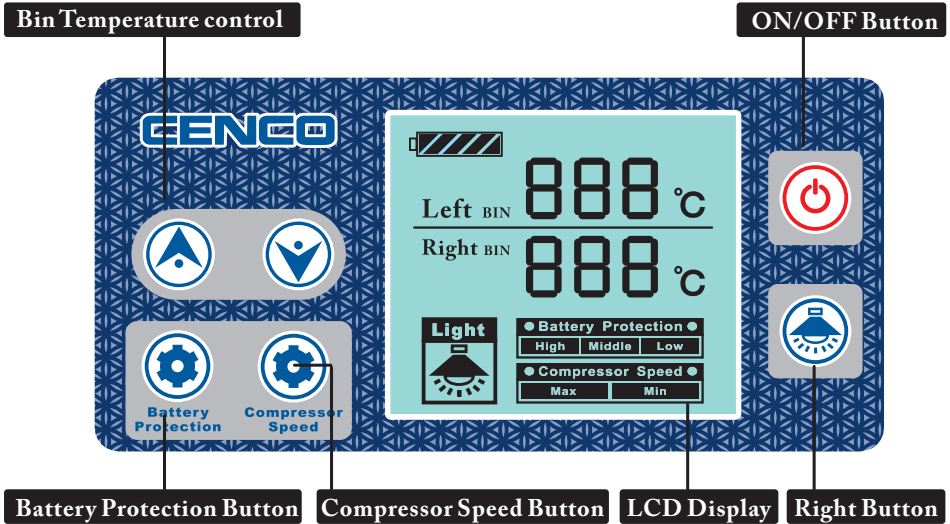
## ➤ Cable Length Specification

The DC cables must have a suitable cross-section for their length, according to this table:

| Cable Area         |     | 12V Max Cable Length |       | 24V Max Cable Length |       |
|--------------------|-----|----------------------|-------|----------------------|-------|
| [mm <sup>2</sup> ] | AWG | [m]                  | [ft.] | [m]                  | [ft.] |
| 2.5                | 12  | <2.5                 | <8    | <5                   | <16   |
| 4                  | 12  | <4                   | <13   | <8                   | <26   |
| 6                  | 10  | <6                   | <20   | <12                  | <39   |
| 10                 | 8   | <10                  | <33   | <20                  | <66   |



\*The length is from the battery to the refrigerator.

- AC Max Cable Length: 0.75mm<sup>2</sup> or 18AWG
- Temperature setting range: -18°C~10°C;
- The LCD Display range: -20°C~40°C;



— Press the  $\Delta$  button or  $\nabla$  button to adjust the temperature the unit aims to achieve. Press the  $\Delta$  button to increase or the  $\nabla$  button to decrease the temperature.

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- ON/OFF power button: Hold ON/OFF button for 3 seconds to turn the unit off, hold the ON/OFF button for 3 seconds to turn unit on.
- If the power source is cut off or disconnected, the unit will switch off automatically and once the power is restored it will automatically switch back on with the same settings.
- Press the Compressor Speed button to set the speed of the compressor, MAX (3000 RPM) 、 MIN (2500 RPM) the LCD light will show which speed is selected.
- Press the Battery Protection button to set the voltage the fridge cuts out at, LOW, MID or HIGH. The LCD light will show which voltage is selected.
- Press the  button ,then the light of the left and right bin turn on and the LCD will display,Press the  button again,the light turn off; If forget to turn off the right,the light will be turn off automatically in 3 minuter later.
- If the power supply is cut off, the refrigerator will switch on automatically when the energy is on again.
- If you press any button,the refrigerator will have a buzzer alarm sound.

## 4.Cleaning and maintenance

- Clean the appliance inside and out with a damp cloth for every week. If it is dirty, using sodium bicarbonate dissolved in lukewarm water, and then clean it.
- Never use abrasive products, detergents or soap. After washing, rinse with clean water and dry carefully. Do not leave the refrigerator shut off, warn inside, with food inside or lid closed.
- Never clean the appliance under running water or in dish water. Do not use abrasive cleaning agents or hard objects during cleaning as these can damage the refrigerator.



## 5. Troubleshooting

- The appliance is out of work
  - Check the power supply
  - Whether the plug and the socket have a good connection.
  - Whether the fuse has been burned out
  - Whether the appliance has been turned on
- The food inside is frozen.
  - The setting temperature is too low
- Bad performance in refrigeration
  - Has too much food been placed inside the refrigerator
  - The door is unlock
  - The door seal is broken
  - Problems arising from poor ventilation
  - There are too much heated food inside
  - There is no room around the appliance
  - There is a hot source around
  - The temperature setting is inappropriate
- Hear the sound of water from the inside place
  - It's normal, due to the flow of the refrigerant.
- Noise
  - The refrigerator is not placed on a level surface
  - Touch the wall or other place
  - The parts fall off the interior of the refrigerator

## 6.Security Certificate



## 7.Technical Data (DC )

| MODEL                                                  | BCD45DC         | BCD60DC |
|--------------------------------------------------------|-----------------|---------|
| CLIMATIC CATEGORY                                      | T / ST / N / SN |         |
| PROTECTIVE CLASSIFICATION OF ELECTRIC SHOCK RESISTANCE | III             |         |
| RATED VOLTAGE DC (V)                                   | 12/24V          |         |
| DC FUSE (A)                                            | 15A             |         |
| TOTAL INPUT POWER (W)                                  | 55W             |         |
| RATED CURRENT FOR DC (A)                               | 2.7A/5.4A       |         |
| REFRIGERANT (g)                                        | 45g             | 60g     |
| FOAM VESICANT                                          | C5H10/C-Pentane |         |

Guidelines for protection of the environment

**DISPOSAL:** Do not dispose this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.



Meaning of crossed-out wheeled dustbin: Do not dispose of electrical appliances as unsorted municipal waste. Use separate collection facilities.

Contact you local government for information regarding the collection systems available.

If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.

# CENCO

## Packing List

| <b>Item</b><br><i>Quantity</i><br><b>Model</b> | <b>Refrigerator</b> | <b>DC<br/>Power<br/>Cord</b> | <b>AC<br/>Adapator</b> | <b>User's<br/>manual</b> |
|------------------------------------------------|---------------------|------------------------------|------------------------|--------------------------|
| <b>BCD45 DC</b>                                | <b>1</b>            | <b>1</b>                     | <b>1</b>               | <b>1</b>                 |
| <b>BCD60DC</b>                                 | <b>1</b>            | <b>1</b>                     | <b>1</b>               | <b>1</b>                 |