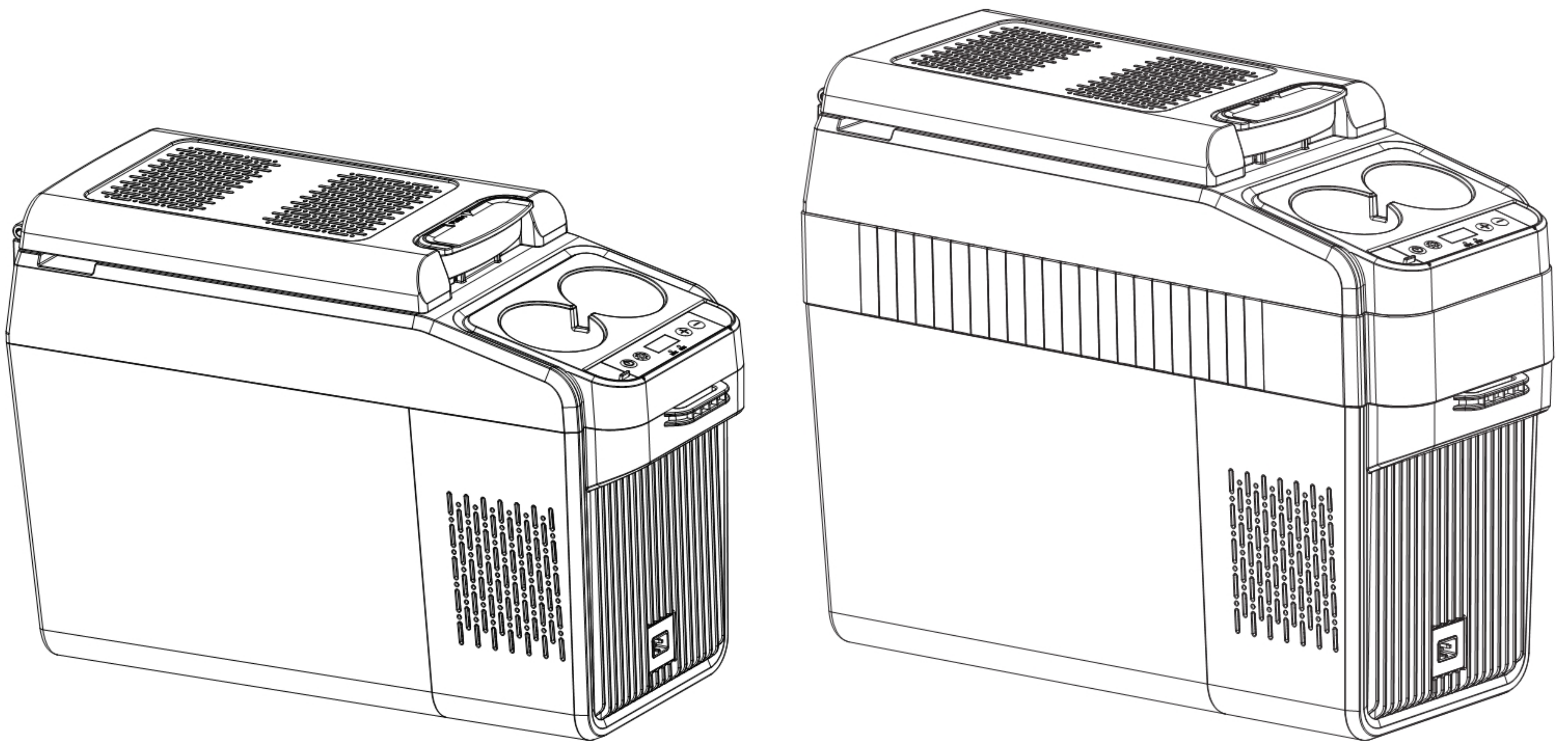


USER MANUAL

Car Refrigerator



Please read this operating manual carefully before starting the device. Keep it in a safe place for future reference.

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1.Safety Precaution

Improper operation may pose a safety risk or cause damage to the refrigerator.

Warnings related to electrical current or voltage hazards. Failure to follow these instructions may damage the refrigerator or impair its functionality.

Ensure that only items suitable for the set cooling temperature are placed inside the refrigerator.

If storing medication, please verify that the refrigerator's cooling performance meets the specific requirements for the storage of such items.

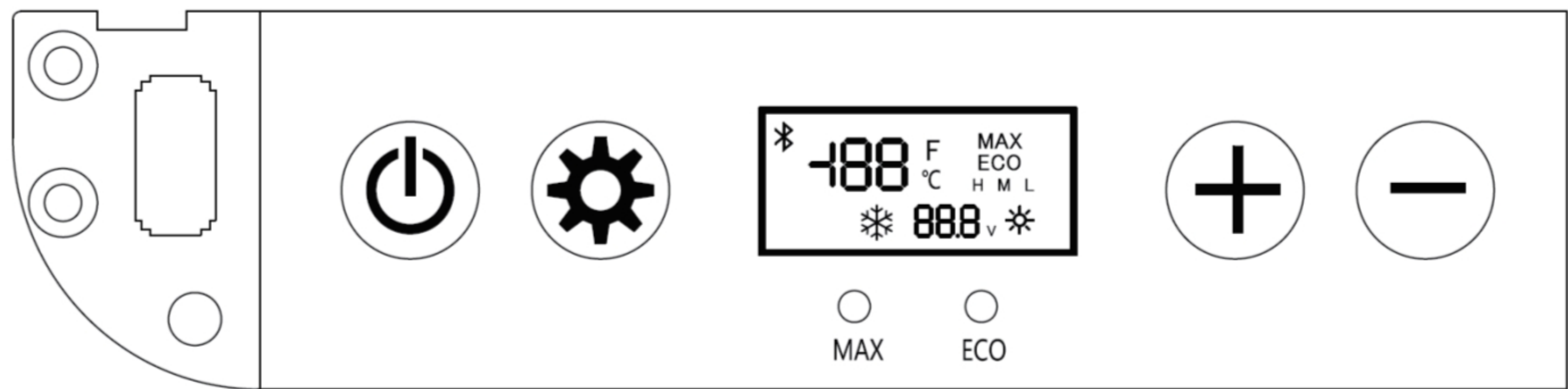
- This product must not be placed at a 90-degree angle, nor should it be placed upside down.
- If the power cord is damaged, it must be replaced by the manufacturer, customer service, or a similarly qualified service provider.
- This product should only be repaired by qualified personnel. Improper repairs may cause damage to the product and harm to individuals.
- Children should not clean or maintain this product.
- This product should be kept out of the reach of children under 8 years old.
- Flammable items (such as spray cans containing flammable substances) should not be stored inside the refrigerator.
- Ensure that the refrigerator's input voltage matches the power supply voltage.
- When not in use, unplug the power cord from the outlet or cigarette lighter.
- If the power cord is damaged, unplug it immediately and replace it with a power cord of the same type and specifications. Please ensure the power cord is unplugged before replacing it.
- If the refrigerator shows visible damage, do not operate it; please contact customer service immediately.
- The appliance should be serviced by a professional. Improper repairs may cause significant damage to the refrigerator. For repairs, please contact customer service.
- It is prohibited to open the control circuit.
- Cooling equipment should not be transported with perishable or solvent-containing materials.
- Food should be stored in its original packaging or compatible containers.
- Before starting, ensure the power cord and plug are dry.
- Do not use any electrical appliances inside the refrigerator except those specifically recommended by the supplier for special purposes.
- Start the refrigerator in a dry area to avoid water splashing.

- Keep the refrigerator and power cord away from moisture and rain.
- The refrigerator should not be placed near open flames or other heat sources (heaters, direct sunlight, gas, etc.).
- During operation, place the refrigerator in a well-ventilated area to allow heat dissipation, ensuring that the ventilation slots are not covered.
- Keep the refrigerator away from walls and other objects to ensure proper airflow, which will improve the cooling performance.
- The refrigerator should not be placed in water.
- Do not store ice blocks or liquids inside the refrigerator.
- If connecting the refrigerator to a DC socket, remember to turn on the cigarette lighter switch to ensure proper power supply.
- When using an external battery for quick charging, disconnect the refrigerator and other power-consuming devices, as overvoltage may damage the refrigerator’s electrical components.

2.Product Information

Product Model	CR15	CR18
Product Dimensions	length 599 mm (23.6 in), width 220 mm (8.7 in), height 384 mm (15.2 in)	length 599 mm (23.6 in), width 220 mm (8.7 in), height 454 mm (17.9 in)
Capacity	13L (13.73 quarts)	18L (19.03 quarts)
Net Weight	5.5 kg (12.12 lbs)	6.5 kg (14.33 lbs)
Climate Type	T/ST/N/SN	
Rated Power	35W	
Rated Voltage	DC12/24V	
Cooling Temperature Range	COOLING TEMPERATURE RANGE: -20°C TO 10°C (±3°C) / -4°F TO 50°F (±5.4°F)	
Temperature Control	Electronic temperature control	

3.Operating Instructions



3.1 Button Operation

3.1.1 SET Menu Button

Pressing the SET button continuously cycles through the following options:

- **Preset Temperature**
Press SET once to make the preset temperature flash, then press "+" or "-" to adjust the preset temperature up or down.
- **ECO/MAX Mode**
Press SET twice to make ECO/MAX flash (the selected mode will flash, defaulting to MAX), then press "+" or "-" to toggle between ECO and MAX modes.
- **Battery Protection Value**
Press SET three times to make the current battery protection value flash (default is H mode). Then, press "+" or "-" to switch between battery protection values.

The default battery protection values are shown in the table below.

	12(V)		24(V)	
	Compress or stops	Compress or runs	Compress or stops	Compress or runs
H3	11.3V	12.6V	24.3V	25.7V
H2	10.8V	11.8V	22.3V	23.7V
H1	9.6V	10.9V	21.3V	22.7V

The refrigerator can still start at a voltage of 30.5V. However, if the voltage exceeds 31.5V, the high voltage protection mode will be activated, preventing the refrigerator from starting.

3.1.2 In standby mode, press and hold the SET button for 3 seconds to enter the menu settings.

Once in the menu, press SET again to cycle through the compensation temperature settings (F1/F2/F3/C-F). Then, press the + or - buttons to adjust the corresponding parameters and switch between Celsius and Fahrenheit.

Parameter	Function	Setting Range	Default Value
F1	Temperature compensation value when the set temperature is $\geq -6^{\circ}\text{C}$	$-10^{\circ}\text{C} \sim +10^{\circ}\text{C}$	-0°C
F2	Temperature compensation value when the set temperature is between -7°C and -12°C	$-10^{\circ}\text{C} \sim +10^{\circ}\text{C}$	-0°C
F3	Temperature compensation value when the set temperature is $\leq -13^{\circ}\text{C}$	$-10^{\circ}\text{C} \sim +10^{\circ}\text{C}$	-0°C

3.1.3 If no button action is detected within 5 seconds, the flashing will stop, and the display will return to normal mode.

3.1.4 ON/OFF: Press and hold the "ON/OFF" button for 3 seconds to turn the refrigerator on/off or to standby mode.

3.2 Display

- When the system is powered on, the digital screen will display full white light for 2 seconds, then enter normal display mode.
- If no button is pressed within 30 seconds, the brightness of the screen and indicator lights will be reduced by half. Press any button to restore full brightness.
- In standby mode, the digital screen and backlight will not operate.

4. Daily Cleaning And Maintenance

Cleaning Method:

Clean the refrigerator once a week. Use a damp cloth to wipe the interior and exterior surfaces of the refrigerator. If it is too dirty, use a mild detergent, then wipe the area with a cloth soaked in water, ensuring to wring it out to remove excess moisture.

Plastic Parts Maintenance:

Properly maintain the door seals and ensure they are kept clean at all times. Avoid getting oil stains or causing deformation. If oil (animal or vegetable) is left on the plastic parts for an extended period, the plastic may age, crack, and emit unpleasant odors. Therefore, it is important to develop a habit of regular cleaning.

Warning:

Never wash the refrigerator directly with water to avoid reducing electrical insulation and preventing rust. The following substances may damage the paint surface and plastic parts and should not be used for cleaning: alkaline detergents, soap, abrasive powders, hot water, brushes, turpentine, gasoline, and alcohol.



5. Product Warranty

If the device gets malfunctional, the compressor limited warranty will be provided for 1 year from the date of purchase, except following situations:

- Contrived damage.
- Damage caused by force majeure such as earthquake, conflagration, etc.
- Damage from inappropriate use or violating this instruction.
- Damage or malfunction caused by disassembling.

6.Trouble Shooting

Problem	Cause/Solution
Refrigerat or Not Working	<p>Cause:</p> <ol style="list-style-type: none">1. Check if there is a power supply issue or if the voltage is too low.2. Check if the power plug is properly connected.3. Check if the fuse is blown. <p>Solution:</p> <ol style="list-style-type: none">1. If the power supply or voltage is the issue, ensure the refrigerator is connected to a stable power source with the correct voltage.2. If the power plug is not securely connected, plug it in properly.3. The fuse is located at the cigarette lighter plug. Unscrew the cigarette lighter and open the cover to replace the fuse.
Food Freezing Inside the Refrigerator	<p>Cause:</p> <p>The temperature setting is too low.</p> <p>Solution:</p> <p>Adjust the temperature setting to a higher value to prevent the food from freezing.</p>
Poor Cooling	<p>Cause:</p> <ol style="list-style-type: none">1. Too much food stored, causing overcrowding and restricting airflow.2. The refrigerator door is not properly closed.3. The door seal is damaged or deformed, leading to poor sealing.4. Poor ventilation around the condenser fan.5. Excessive hot food placed inside the refrigerator.6. Exposure to direct sunlight or nearby heat sources. <p>Solution:</p> <ol style="list-style-type: none">1. Reduce the amount of food stored and ensure proper airflow.2. Ensure the refrigerator door is completely closed.3. Inspect and replace the door seal if damaged or deformed.

6.Trouble Shooting

Problem	Cause/Solution
Poor Cooling	<div>4. Ensure proper ventilation around the condenser fan.</div> <div>5. Avoid placing hot food inside the refrigerator.</div> <div>6. Keep the refrigerator away from direct sunlight or heat sources.</div>
Hearing a Water Flow Sound Inside the Refrigerator	<div>Cause:</div> <div>This is the sound of refrigerant flowing, which is a normal occurrence.</div> <div>Solution:</div> <div>No action required, as it is a normal sound during operation.</div>
Abnormal Noise	<div>Cause:</div> <div><div>1. Faulty condenser fan.</div><div>2. Loose or fallen parts inside the refrigerator.</div></div> <div>Solution:</div> <div><div>1. Check and repair the condenser fan if it is malfunctioning.</div><div>2. Tighten or replace any loose or fallen parts inside the refrigerator.</div></div>
Error Code E1	<div>Cause:</div> <div>Low input voltage, triggering the low voltage protection. Please refer to the input voltage table for the acceptable voltage range.</div> <div>Solution:</div> <div>Set the battery protection level to M/L (Medium/Low). If the E1 error persists, set the battery protection level to L (Low).</div>
Error Code E2	<div>Cause:</div> <div>The fan is operating beyond the product's allowable current load range, triggering the overload protection.</div> <div>Solution:</div> <div>Turn off the power, check the connections and wiring. If there are no issues, restart the unit after 5 minutes.</div>

6.Trouble Shooting

Problem	Cause/Solution
Error Code E3	<p>Cause: Frequent compressor cycling has activated the protection mechanism.</p> <p>Solution: Turn off the power and restart the unit after 10 minutes.</p>
Error Code E4	<p>Cause: The compressor speed has decreased or is running under overload, triggering the protection mechanism.</p> <p>Solution: Turn off the power and restart the unit after one hour.</p>
Error Code E5	<p>Cause: Insufficient cooling has triggered the overheat protection.</p> <p>Solution: Check if the vents are blocked and ensure the unit is placed in a well-ventilated area (at least 15 cm away from the wall). Then, turn off the power and restart the unit after one hour.</p>
Error Code E6	<p>Cause: The temperature sensor terminal may be loose.</p> <p>Solution: Remove the compressor cover (rear panel of the refrigerator) and check if the temperature sensor is loose. If there are no issues, please contact the seller.</p>

