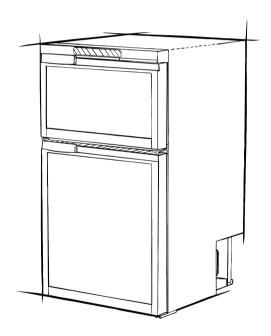


# **USER MANUAL**



Model: COOL.MATE.DUAL80

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#### 1.SAFETY INSTRUCTIONS



# A WARNING!

- Do not operate the appliance if it is visibly damaged.
- Do not block the gaps of the fridge with things like pin, wire, etc.
- Do not expose the appliance to rain or soak it in water.
- Do not place the appliance near naked flames or other heat sources (heaters, direct sunlight, gas ovens etc.)
- Do not store any explosive substances like spray cans with a flammable propellant.
- Ensure the supply cord is dry and not trapped or damaged. Do not locate multiple portable socket-outlets or portable power supplies at the rear of the appliance.
- Check the voltage specification on the type plate corresponds to that of the energy supply. The appliance is only to be used with the power supply unit provided with the appliance.
- Do not use electrical appliances inside the food storage compartments of the appliance, unless they are of the type recommended by the manufacturer.
- Once unpacked and before turning on, the appliance must be placed on a level surface for more than 6 hours.
- Make sure that the appliance stays horizontally when it is running. The tilt angle must be less than 5° for long time running and be less than 45° for short time running.
- · Keep the ventilation openings in the unit casing or in the built-in structure free of obstacles.
- Keep the appliance stable on the ground or in the car; Do not drain upside down.
- When positioning the appliance, ensure the supply cord is not trapped or damaged.
- Do not locate multiple portable socket-outlets or portable power supplies at the rear of the appliance.
- Risk of child entrapment. Before you throw away your old refrigerator or freezer:
- \* Take off the doors.
- \* Leave the shelves in place so that children may not easily climb inside.
- Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.



• 📤 🛕 : Risk of fire/ flammable materials.

# (!) CAUTION!

- Repairs may only be carried out by qualified personnel. Incorrect repair may cause danger. The lamp and supply cord must be replaced by the manufacturer or qualified persons.
- The installation of DC power in the boat must be handled by qualified electricians.
- Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

 The appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they've been given supervision or instruction concerning use of the device in a safe way and understand the hazards.

# **1** NOTICE!

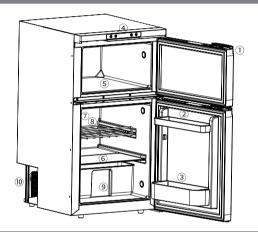
- Disconnect the power supply before each cleaning and maintenance and after every use.
- Do not use sharp tools to defrost; Do not damage the refrigerant circuit.
- Risk of child entrapment. Before you throw away your old refrigerator or freezer: take off the doors: leave the shelves in place so that children may not easily climb inside.
- Check if the cooling capacity of the appliance is suitable for storing the food or medicine. Food may only be stored in its original packaging or in suitable containers.
- If the appliance is left empty for long periods, switch off, defrost, clean, dry, and leave the door open to prevent mould developing within the appliance.
- The appliance is intended to be used in household and similar applications such as:
  - Staff kitchen areas in shops, offices and other working environments;
  - Camping, Farm houses and by clients in hotels, motels and other residential environments;
  - Bed and breakfast type environments;
  - Catering and similar non-retail applications.
- To avoid contamination of drink, please respect the following instructions:
- Opening the door for long periods can cause a significant increase of the temperature in the compartments of the appliance.
- Clean regularly surfaces that can come in contact with drink and accessible drainage systems.
- Store raw meat and fish in suitable containers in the refrigerator, so that it is not in contact with or drip onto other food;
- Store raw meat and fish in suitable containers in the refrigerator, so that it is not in contact with or drip onto other food.
- If the refrigerating appliance is left empty for long periods, switch off, defrost, clean, dry, and leave the door open to prevent mould developing within the appliance.

Please according to local regulations regarding disposal of the appliance for its flammable refrigerant and blowing gas.

#### 2.PRODUCT FEATURES

- High-efficiency DC compressor and conversion module.
- CFC free and great heat insulation.
- Intelligent battery protection system prevents your vehicle from running out of battery.
- LED display control panel for temperature setting.
- Easy to install, reversible door.
- Detailed designs: removable door bins, crisper drawer, removable wire shelves, interior LED light, night light for control panel..

#### **3.PRODUCT STRUCTURE**

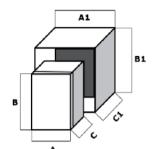


- ①Door latch
- 23Door bins
- 4 Control panel
- **5**Small compartment
- **©**Large compartment
- 7 Interior light
- ®Shelve
- **10** Compressor

### 4. INSTALLATION INSTRUCTIONS

**Precautions before installation:** Ensure that the fridge is not damaged when opening the package after receiving the product. Any transportation damage could be reported to the place of purchase. Handle the product with the utmost care and attention.

**STEP 1:** Prepare the cabinet. Leave space around the refrigerator to keep good ventilation. **(the back and top≥50mm, the side ≥20mm).** Always keep the fridge on a horizontal surface and away from heat sources.



There should be a minimum of 50mm of space at the rear and top of the refrigerator and 20mm on each side.

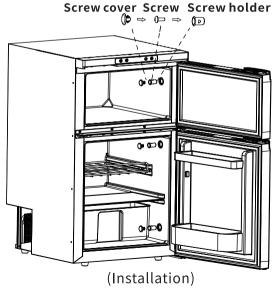
Model	Product Dimension (A*C*B)	Recommended Installation Dimension (A1*B1*C1)	
DR 80	546*500*830mm	496*550*880mm	

**STEP 2:** Connect to a power supply. Connect the refrigerator to the vehicle 12/24V DC system directly (\*Note: The plug and power-supply cord are not included in the standard configuration). Do not locate multiple portable socket-outlets or power supplies at the rear of the device.

**STEP 3:** Push the fridge into the cabinet carefully to avoid scratching the floor, and the power cable should be kept loosen.

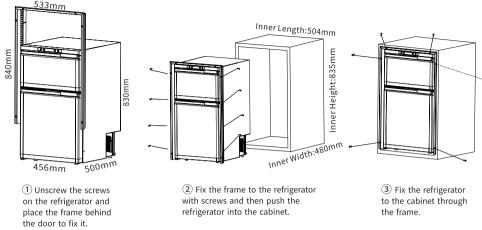
**STEP 4:** Fix the refrigerator. There are three methods you can choose:

—Method 1: Mount the fridge with the cabinet wall. The screw holders ①②③④ is built in the side wall of the refrigerator, a hole needs to be drilled through the screw holders into the side metal panel with screws (M5, 15mm minimal) and fix it on the wall; after that, use the screw cover to cover the hole. (If the refrigerator needs to be drilled through, it should be confirmed before leaving the factory. The screws are not included with the refrigerator.)

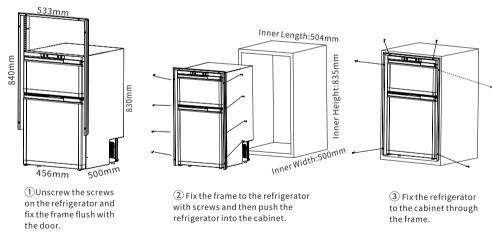


**EXAMPLE-1 Mount to the cabinet wall** 

—Method 2: Optional installation frame (standard frame or flush-mount frame) for a secure fit and a smart finish (as shown below).



**EXAMPLE-2 Optional standard frame** 



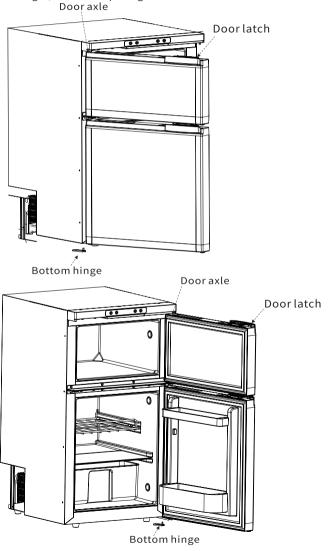
**EXAMPLE-3 Optional flush-mount frame** 

**STEP 6:** Verify the installation. Once the installation had been finished, check the continuity of the earth circuit and carry out all electrical safety testing provided for by current regulations. Protect and fix the cables in order to prevent accidental pulling of the cable from disconnecting it from the connections or coming into contact with hot parts with a temperature above 50° C or with sharp parts.

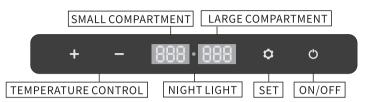
#### **5.REVERSE DOOR OPEN DIRECTION**

Reversible door that can be opened from left to right or from right to left. Follow the steps below if necessary :

- 1.Unscrew the bottom hinge and take off the door body (keep the fridge stable);
- 2. Unscrew and take off the door latch, and install it into the other side;
- 3. Move the top and bottom door axle to the other side, and install the door to the refrigerator; fasten the top and bottom door axles with the top and bottom hinges; screw the door with the hinges, the door opening direction is now reversed.



#### **6.FUNCTION AND OPERATION**



- Power supply: connect to DC 12V/24V or AC 100~240V(using dedicated adapter).
- **Display Screen Initialization:** when the fridge is powered on, the buzzer will make a long beep, and the display will be on for two seconds then enter the standby mode.
- Power ON/OFF: press () to switch ON, long press () for three seconds to switch OFF.
- **Night mode:** under running state, long press **O** for 3 seconds to enter Night mode, the screen will turn off and the night light will be on. Short press **O** again to return to normal display.
- Temperature Setting: under the running state, long press + and at the same time for three seconds to switch ON/OFF the small compartment, long press and at the same time for three seconds to switch ON/OFF the large compartment, two compartments cannot be switched OFF at the same time.

When both left and right compartments are set in running state, press + or − to enter small compartment temperature setting, press + to increase temperature, press − to decrease temperature, and press to switch small/large compartment. The setting will be saved after stop operating for 3 seconds. Note: the temperature displayed is the current temperature of the compartments, it'll take a while to reach the set temperature.

Temperature setting range: -20~20°C (-4~68°F).

- **Cooling Mode:** under the running state, press to switch HH(fast cooling) and ECO (Energy saving Mode).(\*Factory setting is MAX.)
- Battery Protection Mode: under the running state, long press of for 3 seconds until the left screen flashes, then press of again to switch High, Medium and Low (\*Factory setting is High).

From left to right: High/Medium/Low.

#### **Voltage Reference:**

INPUT	DC 12V		DC 24V		
MODE	сит оит	CUT IN	CUT OUT	CUT IN	
L	8.5V	10.9V	21.3V	22.7V	
М	10.1V	11.4V	22.3V	23.7V	
Н	11.1V	12.4V	24.3V	25.7V	

<sup>\*</sup> the voltage is theoretical value, there may be a deviation in different sceneries.

\* H should be set when the product is connected to car power, and M or L should be set when it is connected to a portable battery or other back-up battery.

#### • Recommended temperature for common food:

	30	B			<b>**</b>	
Drinks	Fruits	Vegetable	Delicatessen	Wine	Ice cream	Meat
5°C/41°F	5~8°C/41~46°F	3~10°C/37~50°F	4°C/39°F	10°C/50°F	-10°C/14°F	-18°C/0°F

#### 7. CARE AND MAINTENANCE

#### **■**Cleaning:

- Unplug the device first to avoid electric shock.
- · Use wet cloth to clean the device and dry it.
- Remove the cover and drain from the hole at the bottom of the device.
- Do not soak the device in water and do not wash it directly.
- Do not use abrasive cleaning agents as these can damage the device.

#### ■Storage:

If the device will not be in use for a long time, please follow the steps:

- Turn off the power and remove the plug.
- Remove all the items stored in the device.
- Remove the cover and drain from the hole, wipe off excess water with a soft rag.
- Put the device in a cool and dry place.

### **■**Defrosting:

Humidity can form frost in the interior of the cooling device or on the evaporator, which will affect the cooling performance. Defrost the device regularly to avoid this.

- Switch off the device.
- Take out the contents of the device.
- Remove the cover and drain from the hole.
- · Keep the door open.
- · Wipe off the defrosted water.



Never use hard or sharp tools to remove ice or to loosen objects which have frozen in place.

# 8.TROUBLESHOOTING

Issues	Cause/Suggestions
Refrigerator does not work	<ul> <li>Check if the switch is on.</li> <li>Check if the plug and socket are connected well.</li> <li>Check if the fuse has been burnt.</li> <li>Check if the power supply is malfunctioned.</li> <li>Switch on/off the fridge frequently may cause start delay of the compressor.</li> </ul>
Refrigerator compartments are too warm	<ul><li>The door is opened frequently.</li><li>A large amount of warm or hot food was stored recently.</li><li>The refrigerator has been disconnected for a long time.</li></ul>
Food is frozen	The temperature was set too low.
There is "water flow" noise from inside the refrigerator	• It's a normal phenomenon, caused by the flow of refrigerant.
There are waterdrops around the refrigerator casing or door gap	It's a normal phenomenon, the moisture will condense to water when it touches a cold surface of the refrigerator.
The compressor is slightly noisy when starting	It's a normal phenomenon, the noise will be reduced after the compressor works stably.
Code F1 displayed	Possible cause: low voltage to fridge.     Adjust the battery protection from High to Medium or from Medium to Low.
Code F2 displayed	Possible cause: condenser fan is overloaded.     Disconnect power to fridge for 5 minutes & re-start.     If the code shows again, contact manufacturer for service.
Code F3 displayed	Possible cause: the compressor starts too frequently.     Disconnect power to fridge for 5 minutes & re-start.     If the code shows again, contact manufacturer for service.
Code F4 displayed	Possible cause: compressor not kicking in.     Disconnect power to fridge for 5 minutes & re-start.     If the code shows again, contact manufacturer for service.
Code F5 displayed	<ul> <li>Possible cause: overheating of the compressor &amp; electronics.</li> <li>Disconnect power to fridge for 5 minutes &amp; re-start.</li> <li>If the code shows again, contact manufacturer for service.</li> </ul>
Code F6 displayed	Possible cause: no parameter can be detected by the controller.     Disconnect power to fridge for 5 minutes & re-start.     If the code shows again, contact manufacturer for service.
Code F7 or F8 displayed	Possible cause: temperature sensor is faulty. Contact manufacturer for service.

#### 9.WARRANTY

If the device gets malfunctional, the compressor limited warranty will be provided for 3 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.

### **10.TECHNICAL INFORMATION**

MODEL	COOL.MATE.DUAL80		
RATED VOLTAGE	DC12/24V OR AC100~240V (USING DEDICATED ADAPTER)		
RATED POWER	80W		
GROSS CAPACITY	79.8L/2.82 Cu.Ft		
LARGE COMPARTMENT	50.8L/1.79 Cu.Ft		
SMALL COMPARTMENT	29L/1.02 Cu.Ft		
NOISE	≤45dB		
CLIMATE CATEGORY	T/ST/N		
TEMPERATURE SETTING RANGE	-20~20°C (-4~68°F)		
DIMENSIONS (L*W*H)	546*500*830mm 21 1/2*19 11/16*32 11/16 inch		
NET WEIGHT	24.5kg/54.0lb		

<sup>\*</sup>Due to product improvement, the technical information might be different from actual information, please refer to the rating label on the product.