



MASSIMO

E-KOOLER CX SERIES



Model CX30 CX40 CX50

OWNER'S MANUAL

FEATURES

- DC power connections
- High-efficiency DC compressor and conversion module
- Dual mode operation (Max & Economy)
- Digital temperature display with adjustable control
- 3-stage low voltage battery protection
- USB port to charge USB devices
- Handle and wheels

BOX CONTENTS

- 1 x Portable Fridge/Freezer
- 1 x 12/24V Car Cigarette Power Lead
- 1 x Mains Power Lead

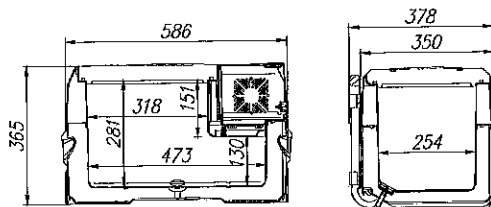
SPECIFICATIONS

| | |
|----------------------------|------------------------------------------------|
| Input Voltage: | 12/24VDC |
| Average Power Consumption: | 45W |
| Power Consumption: | 0.25kw.h/24hr |
| Rated Current: | 3.8A/1.9A |
| Temperature Range: | 68°F~0°F (with ambient temperature at 77°F) |
| Refrigerant: | R134a |
| Insulation: | 100% CFC & HFC free PU Foam insulation |

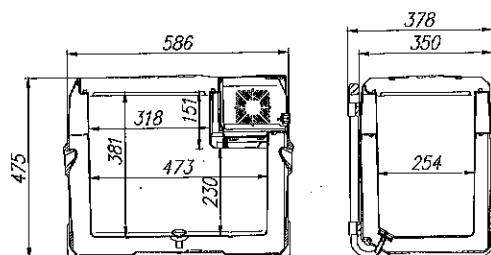
SAFETY

- The installation of DC power sources in a boat must be handled by a qualified electrician
- Make sure to connect power to the suitable voltage socket
- No electrical devices are to be used inside the product
- The product can be powered on only after being unpacked and put on a flat level surface for over 6 hours
- Make sure to keep the product horizontal when it is running. The tilt angle must be less than 5° for long periods of usage, and less than 45° for short periods of usage
- Product must be well ventilated. Ensure there is a minimum of 200mm clearance at the back, and 100mm around the sides
- The product should be in a well-ventilated space, away from heat sources. Try to avoid direct exposure to sunlight
- Keep product stable
- When there is water inside the tank, do not turn the product upside down to empty. Dry the water, do not soak in water
- Do not put metal in the air inlet vent, outlet vent, or gap
- Do not connect to other power except 12V/24VDC
- Do not soak the product in water or wash with water
- The product should not be repaired. If there is any issues please consult the place of purchase
- Turn off the product before cleaning to avoid electric shocks or other issues
- Keep product away from wet or humid places

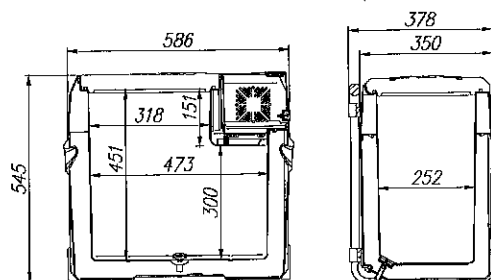
DIMENSIONS



CX30



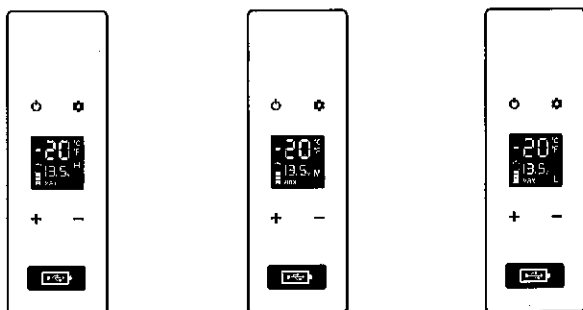
CX40



CX50

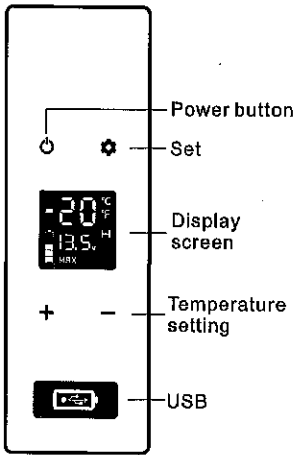
USING IN CAR

The product has a three-level battery protection function, which not only guarantees the normal operation of the product, but also protect the battery of the vehicle. When in the power-on state, long press SET button for 3 seconds and the display screen flashes H, select low voltage production L(ow), M(edium), and H(igh) by clicking SET button. The factory default is set to H(igh) protection.





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. Because of the different output voltages between vehicles, the battery gear can be set from H to M or from M to L if there is a voltage protection code F1 shown on the panel. The battery gear should be set to H if the product will keep working after turning off the car engine, or the product may drain the battery.

OPERATION



• How to Turn on the Fridge

1. Connect to power
 2. Press button 
 3. The internal temperature will display and the compressor will start
- SET: Press button  to enter different modes, ECO (Energy Saving Mode), and MAX (Fast Cooling Mode). Factory setting is MAX
 - Press button + or - and set the temperature to 68°F~0°F

CLEANING & MAINTENANCE

1. Do not wash the product with water or soak.
2. Please disconnect from power before cleaning the product to avoid electrical shock.



3. Drain the product simply by removing the plug at the bottom.
4. Clean it with a soft wet cloth.

If you will not use the product for a long period of time, ensure you:



1. Turn it off and disconnect from power.
2. Remove everything from inside (food, drinks, etc)
3. Drain any remaining water by removing the drain plug, and all internal surfaces with a soft cloth.
4. Keep it stored away from wet or humid places.

ELECTRIC CONTROL INSTRUCTION

1. Car battery protection setting (voltage cut out setting)

Power on, and press "SET" button until it appears "L" display, press "SET" button to choose from the three stages of car battery protection stages: "L", "M", "H".

| Stage | 12V input | 24V input |
|-------|--------------------|--------------------|
| L | 8.5V off;10.9V on | 21.3V off;22.7V on |
| M | 10.1V off;11.4V on | 22.3V off;23.7V on |
| H | 11.1V off;12.4V on | 24.3V off;25.7V on |

2. Other settings

Standby mode, Press "SET" button until it displays "E1". Press "SET" button, it will displays settings of "E1", "E2", "E3", "E4", "F1", "F2", "F3" in accordance with the order cycle. Choose the setting you need, and press "UP" or "DOWN" button to change and set the parameter.

Setting instructions:

| Stage | 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 |

3. Temperature compensation setting

Displayed temperature= detected temperature+ temperature compensation

| Stage | Function | Setting Range | Factory Default |
|-------|-----------------------------------------------------------------------------------------------|---------------|-----------------|
| E6 | Temperature compensation for temperature set $\geq 7^{\circ}\text{C}$ | -10°C~10°C | 0°C |
| E7 | Temperature compensation for temperature set rang $-7^{\circ}\text{C}\sim-12^{\circ}\text{C}$ | -10°C~10°C | 0°C |
| E8 | Temperature compensation for temperature set rang $\leq -13^{\circ}\text{C}$ | -10°C~10°C | 0°C |

4. How to return to factory default?

Standby mode, Press "SET" button until it displays "E1", then press button "UP" and button "DOWN" at the same time until it displays "-188". Then all data returns to factory default.

TROUBLESHOOTING

- The product is not working:
 - If using the DC cable please ensure the cable still works.
 - Check the power supply is working
 - Check if the plug and socket are connected
 - Check the fuse
 - Check power switch on control panel is on
 - Compressor starts delay protection for 3 minutes after turning on
- Food inside the product is frozen:
 - Temperature is set too low
- Water flowing sound inside the tank:
 - Refrigerant is flowing, this is normal
- Water drops around the case or door gap:
 - When moisture in the air meets the lower temperature case, it will naturally become liquefied and condensed. Wipe away with a towel or soft cloth
- Code F1 displayed:
 - Low voltage protection, which can be solved by setting the battery protection button from H to M or from M to L
- Code F2 displayed:
 - Fan overload protection. Please turn off the product and restart it after 30 minutes. If the code displays again, please contact the place of purchase
- Code F3 displayed:
 - Compressor frequent start protection. Please turn off the product and restart it after 30 minutes. If the code displays again, please contact the place of purchase
- Code F4 displayed:
 - Compressor is overloaded or working at a low speed. Please turn off the product and restart it after 30 minutes. If the code displays again, please contact the place of purchase
- Code F5 displayed:
 - High temperature compressor module protection. Please move the product to a ventilated area and turn it off for 30 minutes then restart it. If the code displays again, please contact the place of purchase

- Code F6 displayed:
 - No parameter can be detected by the controller. Please restart the product. If the code displays again, please contact the place of purchase
- Code F7 / F8 displayed:
 - Temperature sensor error protection. Please check the sensor terminal

During the warranty period the following are excluded from coverage:

- Intentional damage
- Damage by fire, flood, etc
- Damage or malfunction caused by incorrect usage and not following this user manual
- Damage or malfunction caused by disassembling