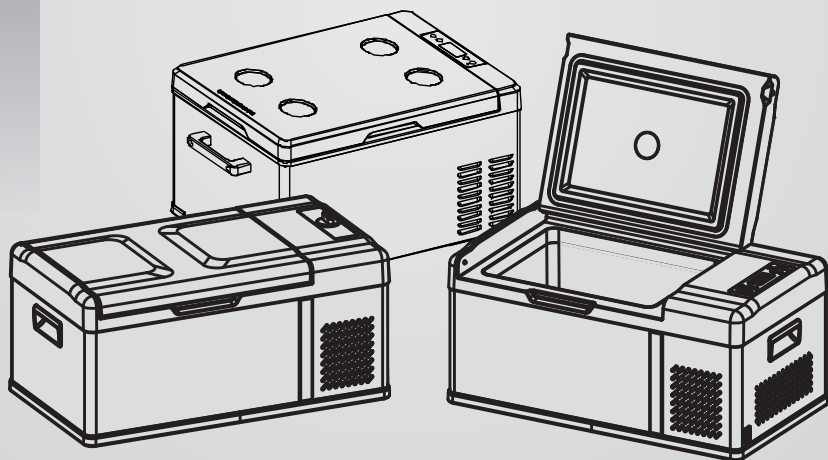


OPERATION MANUAL

Models applicable to this manual:

KE15E、KE15F、KE20E、KE20F
KE25、KE30、KE40、KE50、KE75



Thank you for buying Portable Compressor Refrigerator for Vehicle. Please read this user's manual carefully in order to be familiar with the functions and operational requirements of the product, which will help you to get the best service of the product and the experience of keeping food fresh during your outdoor exploration.

Please contact info@keedbing.com for aftersales services.



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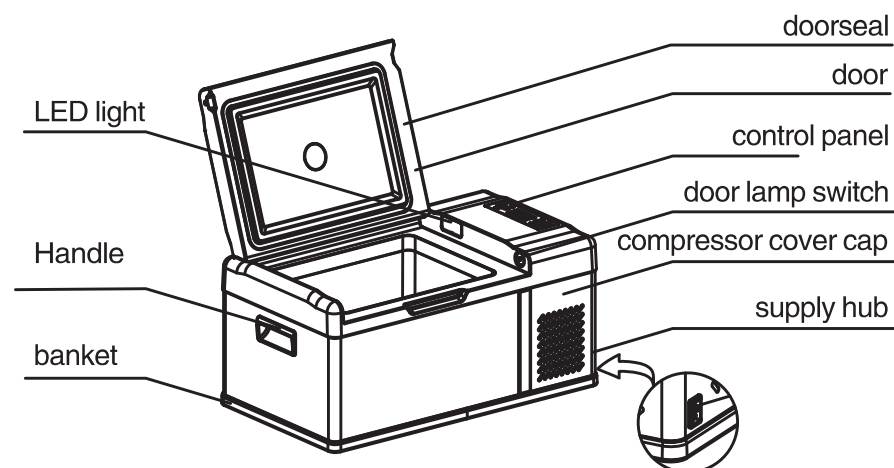
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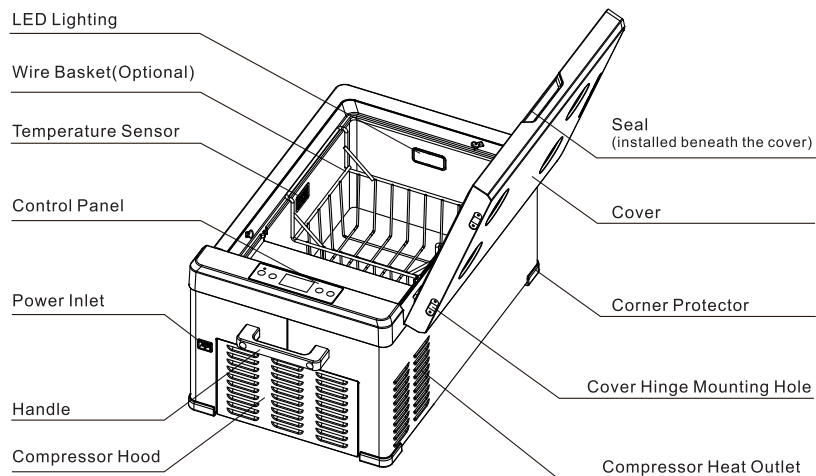
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Introduction of Product Functions

1. Using the compressor and the control module of a famous brand—a portable cooling system that is efficient, energy-saving, stable and reliable
2. Using a world's leading electric control technology bringing high efficiency and low energy consumption
3. Compatible with multiple voltage inputs, operating at 12V/24V DC and 110V–240V AC conditions
4. Provided with intelligent automatic battery protection function in case of low voltage, which effectively prevent battery shortage of the vehicle
5. Inner tank with food grade ABS plastic making more environmentally friendly
6. With LED lighting making the night use more convenient
7. Built-in temperature sensor
8. Widescreen LCD display
9. Real time voltage display function



KE15E、KE15F、KE20E、KE20F



KE25、KE30、KE40、KE50、KE75

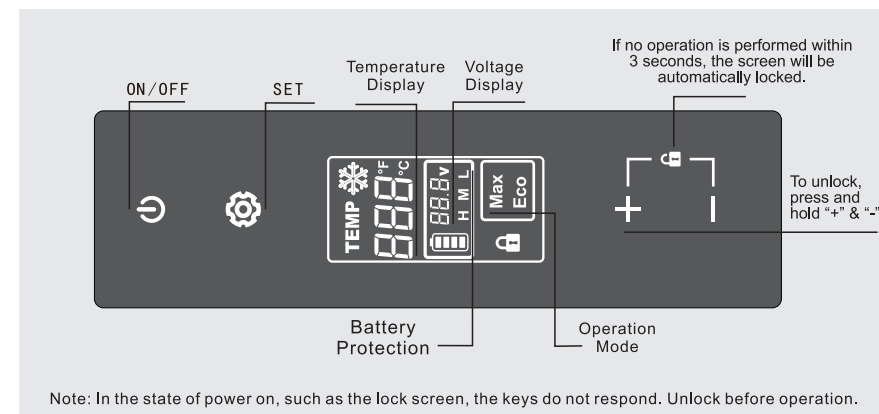
Product Safety

- ◆ Do not touch the exposed power wire by hand.
- ◆ Do not touch the power inlet and power panel by wet hand, which will cause hazard.
- ◆ When using this product on board, make sure that the power supply circuit and fuses have sufficient current rating.
- ◆ Qualified professional is required to install for the use of AC devices in automobiles, recreational vehicles and yachts.
- ◆ Please make sure that the power is properly connected.
- ◆ Do not soak the product in water.
- ◆ Do not place any electrical equipment in the refrigerator.
- ◆ Professional service is required for maintenance, or contact your sales person.
- ◆ Do not expose the product to rain or strong sunlight for a long time.
- ◆ After receiving and unpacking the product, please put it upright and static for 6 hours or more before use.
- ◆ Do not put cans, beer bottles, etc. in the refrigerator a long time for freezing, prevent burst.

Basic Introduction and Operation Skills

- ① Please use the refrigerator in a well-ventilated position, which is good for heat dissipation. Especially, the compressor is located in rear of the refrigerator, please leave at least one 200mm space from the compressor side, and about 100mm from the other.
- ② Do not leave the cover open for a long time. The difference between the inside and outside temperature will adversely affect the cooling effect, so defrost regularly.
- ③ Do not clean the refrigerator under running water.
- ④ Do not use the refrigerator near heat source, which is harmful to the performance and the efficiency of refrigeration.
- ⑤ Please use the refrigerator on a flat surface instead of a greatly sloping surface for a long time, which may affect the performance of the refrigerator.

Operation Instructions



Temperature control range: $-20^{\circ}\text{C} \sim 20^{\circ}\text{C}$

Temperature display range: $-20^{\circ}\text{C} \sim 20^{\circ}\text{C}$

Voltage display range: $0\text{V} \sim 35\text{V}$

1. Switch operation of the power:

Connect the refrigerator to the appropriate power source using the DC power wire or the AC adapter. Press the "⊙" power button for 3 seconds. Then the display screen is on and the system enters testing status. After testing, the screen will display the current temperature in the refrigerator. The refrigerating mode will begin to work in a while, and status indicator LED is on in the meantime. (In order to protect the compressor, it is provided with a protection function of time delay start, and the default time is 3 minutes.); Press the "⊙" power button for 3 seconds to turn off the refrigerating mode. Then all the control outputs stop, the display screen is off, and the status indicator LED goes out.

2. Temperature adjustment:

Press "△" and "▽" to set the temperature you want. "▽" lowers the temperature, while "△" raises the temperature. 5 seconds after setting the temperature, the figure on the screen will not flicker any more. Then the real time temperature in the current refrigerator is shown, and the settings are completed.

3. Operation modes switching:

Press the "⊙" button to switch between ECO (energy saving mode) and MAX (rapid refrigerating mode). Then the corresponding indicator LED of the selected mode is on.

ECO mode: The power consumption is reduced effectively under this mode, thus refrigerating to the needed temperature in the most energy-saving condition;

MAX mode: The rapid refrigerating mode can cool down the internal temperature of the refrigerator, but it consumes more energy.

4. Low voltage battery protection function:

This product is configured with automatic battery protection function in case of low voltage. If the DC power voltage drops to a cut-off value, the compressor will be automatically turned off and the "Er1" error code will appear on the display screen. Long press "⊙" for 3 seconds, battery protection will switch between "High", "Med" and "Low".

Under the turn off state, long press "▽" and "△" for 6 seconds to enter the factory setting. All the parameters will be set according to the factory setting.

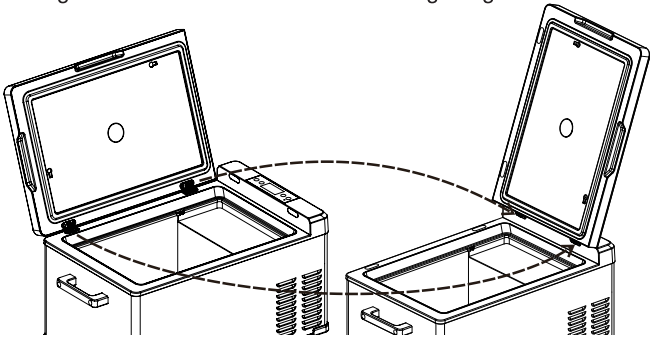
See below table of parameters:

Battery Protection	Cut-off Value(12V/24V)	Turn-on Value(12V/24V)
Low	9.6V/21.3	10.9V/22.7
Medium	10.2/22.5	11.5/23.9
High	10.6/23.3	11.9/24.7

Note: If your refrigerator enters into the battery protection ahead of time, it is possibly because that the supply voltage is too low, protection value is set too high, or the DC wire is inappropriate and can/not supply enough current.

5. Change the opening direction of the cover(only for KE25,KE30,KE40,KE50,KE75)

First, open the cover and place a soft brace at the back of the cover. Unscrew the zipper and the hinge of the cover with a cross screwdriver. Then reinstall them according to the arrows shown in the following image.



Cleaning and Maintenance

The power supply should always remain disconnected when cleaning. Clean the inside and outside of the refrigerator with clean cloth. Do not clean directly under the running water, you can also use some baking soda dissolved in warm water to clean and scrub.

When the refrigerator will be out of use for a long time, clean it and place it in a flat position.

Error Code Instructions

When the compressor, module, fan, temperature sensor do not work normally, and the input voltage is too low, an error code will appear on the display screen and the compressor will stop working. When the error is removed, then the inside temperature will be displayed again. After 3 minutes, the compressor will begin to work.

See the following table for error code description :

Error Code	Problem Description	Solution
Er0	Temperature sensor damage	Check or change the temperature sensor
Er1	Input voltage is too low	Check the input voltage and adjust the battery protection level
Er2	Overcurrent protection	Check the cooling fan
Er3	Protection for abnormal start of compressor	Disconnect the power supply and turn on after 30 minutes
Er4	Protection for abnormal speed of compressor	Adjust operation mode of the compressor(MAX/ECO)
Er5	Module temperature is too high	Move the refrigerator to a well-ventilated area
Er9	Temperature sensor circuit is open	Check if the sensor head inlet is loose

Troubleshooting

◆If the product doesn't work properly, please check:

- 1.whether the power inlet is connected;
- 2.whether the voltage supply is too low;
- 3.whether any of connections are loose;
- 4.the fuse;
- 5.whether the refrigerator is switched on;
- 6.whether the temperature sett too high.

◆If the refrigeration performance is inferior:

- 1.too much food is placed in the fridge;
- 2.the temperature of the food is too high;
- 3.the cover is not properly closed;
- 4.the cover seal (sealing ring) is damaged;
- 5.the ventilation is not well around the refrigerator;
- 6.the ambient temperature is too high;
- 7.the temperature setting is not proper.

◆If you can hear the sound of water flowing in the refrigerator:

1. This is normal due to the flow of refrigeration agent.

◆If the noise is loud when the refrigerator starts:

- 1.check if the refrigerator is placed on a flat horizontal surface;

2.check if there is vibration around the product;

3.When the compressor starts to work, the motor runs from standstill to high speed, making its sound a little bit louder, which is a normal phenomenon.

Technical Parameter

Model	KE15E	KE15F	KE20E	KE20F	KE25
Capacity	15L	15L	20L	20L	25L
Input Voltage	DC 12V/24V				
Temperature Control Range	-20℃~20℃				
Refrigeration Agent	R134a				
Thermal Insulation Material	Polyurethane Foam				
Rated Power	45W				
Rated Current	3.7A /1.8A				
Net Weight(Kg)	11	10	12	11	14
Gross Weight(Kg)	14	13	15	14	16
Product Dimensions(L*W*H)mm	570*320*270	570*320*270	570*320*333	570*320*333	575*365*300
Packing Dimensions(L*W*H)mm	640*400*340	640*400*340	630*380*398	630*380*398	690*430*370

Model	KE30	KE40	KE50	KE75
Capacity	30L	40L	50L	75L
Input Voltage	DC 12V/24V			
Temperature Control Range	-20℃~20℃			
Refrigeration Agent	R134a			
Thermal Insulation Material	Polyurethane Foam			
Rated Power	45W			
Rated Current	3.7A /1.8A			
Net Weight(Kg)	15	16	17	19
Gross Weight(Kg)	17	18	19	24
Product Dimensions(L*W*H)mm	575*365*350	575*365*420	575*365*490	575*365*665
Packing Dimensions(L*W*H)mm	690*430*420	690*430*490	690*430*560	690*430*735

Due to the continuous improvement of the product,if there is any change in technical parameters,no further notice will be given.

Packing List

- 1.Portable refrigerator for vehicle
- 2.Power wire for DC
- 3.AC power adapter (Optional)
- 4.User manual, QC card and warranty card

Customer Service and Warranty

Should there be any quality problems, we provide a one-year warranty for the whole machine. The following situations are not within the scope of free warranty.

- ◆ Damage caused by improper use (problems caused by the parts or accessories bought from other manufacturers are not covered in the warranty);
- ◆ Man-made damage;
- ◆ Problems or damage caused by failure to operate according to the instructions in the user manual;
- ◆ Problems damage caused by self-disassembly of the product without manufacturer's permission;
- ◆ Damage caused by force majeure (earthquakes, fires, etc.);
- ◆ Claims should be within the validity of the warranty (required proof of purchase);
- ◆ Lost items stored in the refrigerator are not covered;
- ◆ Fuses, connectors, power inlets, handles, etc. purchase);
- ◆ Lost items stored in the refrigerator are not covered;
- ◆ Fuses, connectors, power inlets, handles, etc.

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