

Thank you for purchasing the thermoelectric containers. Please read this manual carefully before use and carefully collect it for future reference. The pictures are for reference only, and the products are subject to the actual objects.

Safety precautions

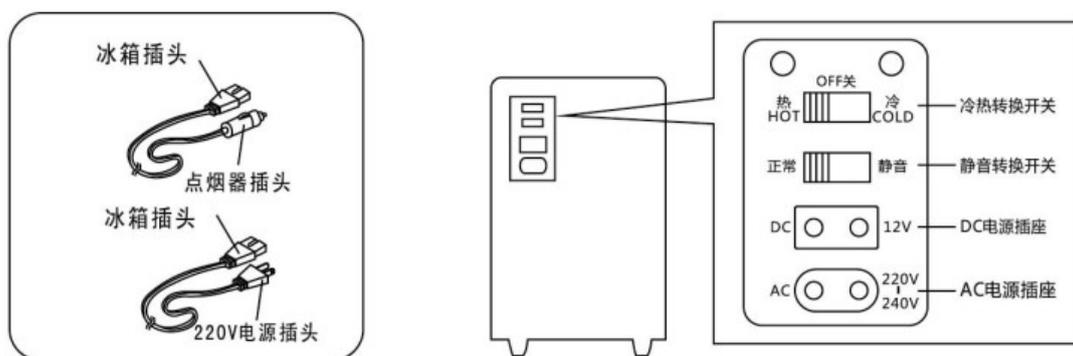
1. In case of power cord damage, do not touch AC power cord with your hands to avoid danger.
2. Pay attention to the absolute correct voltage when using the product (the applicable voltage of this product has been clearly marked on the product nameplate)
3. The product should not be transported or loaded with acid corrosive articles, and the product should not be wiped with corrosive solvent.
4. Do not block the position of ventilation and heat dissipation openings during normal use.
5. Use this product in strict accordance with the instructions. Do not disassemble the internal components without permission.
6. During heating operation, the machine can control the temperature in the box to about 65°C. Please pay attention to the high temperature to avoid scalding.
7. "Cooling" and "heating" gear conversion, must first adjust the gear to "off" gear, 15 minutes later and then dial to another gear.
8. The products shall be stored in a place that is easy to be ventilated and tidy. A 10cm ventilation channel shall be reserved around the products to prevent the products from being placed or exposed to rain or heat sources, such as electric heating furnace, liquefied petroleum gas furnace, heat pipe or flame sunlight.
9. If there is water in thermoelectric containers, should regularly clean up the water in the box.
10. The cold-hot box is not a refrigerator. Fresh meat cannot be frozen. The frozen food and beverage can be stored well.
11. In order to keep the internal items fresh, please don't open the door often, the time to open the door cannot be too long.
12. Children should be supervised to ensure that they cannot play with utensils.

Product description

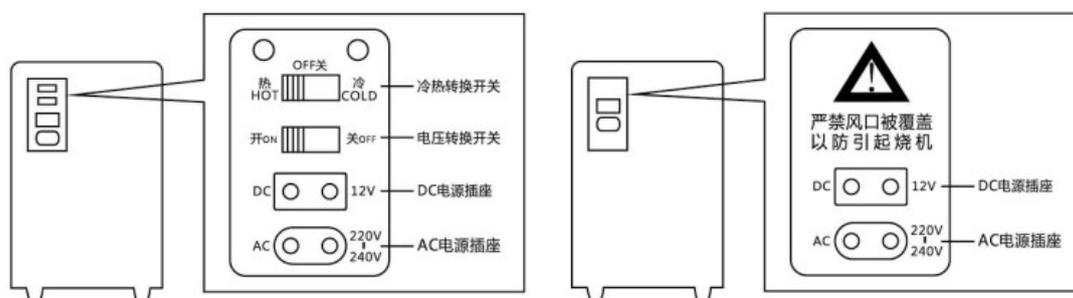
1. This product can not only be refrigerated but also heated. It is simple and lovely in appearance, small in size, easy to carry, long in service life, low in power consumption, efficient in cold and hot functions, and a good helper for home travel.
2. Fully embody the concept of "green environmental protection". This product adopts semiconductor refrigeration technology in high-tech space technology and the concept of PELTIER effect in space technology. It has no bulkiness of compressor and no refrigerant, thus avoiding noise and fluorine pollution. It is a pollution-free environmental protection refrigeration product.
3. Because of its versatility, light weight, small size and convenient carrying, this product is especially suitable for drivers, tourists, working people, single people, mothers, office workers, students, etc.
4. The product has simple structure, long service life, convenient maintenance, low power consumption and strong earthquake resistance.
5. The service life of the product is long. The DC fan with a service life of 30,000 hours radiates heat. Insulation and heat preservation ensure the service life of the product. The product has strong refrigeration power. Single refrigeration can be lower than the current ambient temperature by 19-22°C, double refrigeration can be lower than the current ambient temperature by 25-28°C, and

the heating temperature can reach 65°C.

Power schematic



Schematic diagram of single-core mechanical power supply



Schematic diagram of dual-core mechanical board/dual-core digital display board power supply

Schematic diagram of dual-core numerical control board power supply

Refrigerator plug	冰箱插头
Cigarette lighter plug	点烟器插头
220V power plug	220V 电源插头
Refrigeration and heating transfer switch	冷热转换开关
Mute switch	静音转换开关
DC power outlet	DC 电源插座
AC power outlet	AC 电源插座
Normal	正常
Mute	静音
Voltage transfer switch	电压转换开关
It is strictly prohibited to cover the tuyere to prevent the machine from burning.	严禁风口被覆盖以防引起烧机

Product technical parameters

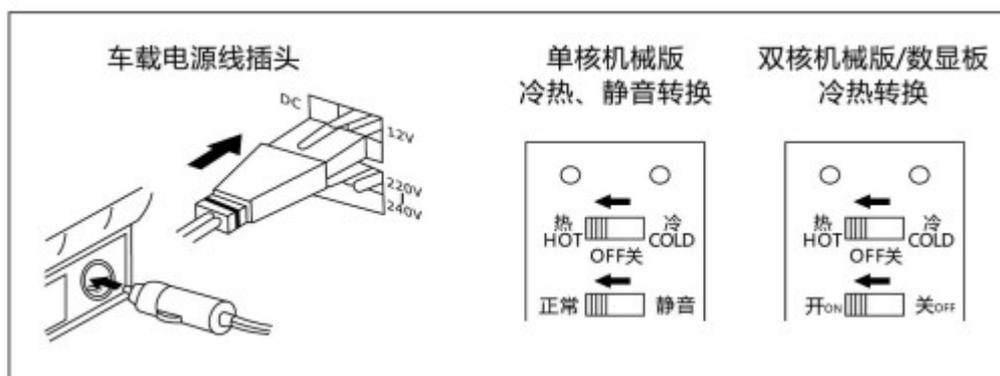
Model	AQ-20L-A			
Version	Single-core mechanical edition	Dual-Core Mechanical Edition	Dual-Core Digital Display Edition	Dual-Core CNC Edition
Power supply	DC12V (Vehicle) /AC220V (Household)			

Power	55W	72W
Refrigeration	22°C lower than the current ambient temperature	28°C lower than the current ambient temperature
Heating	Can be heated to 65 DEG C.	

Operation instruction

I. Use of In-Vehicle Power Supply (DC 12V)

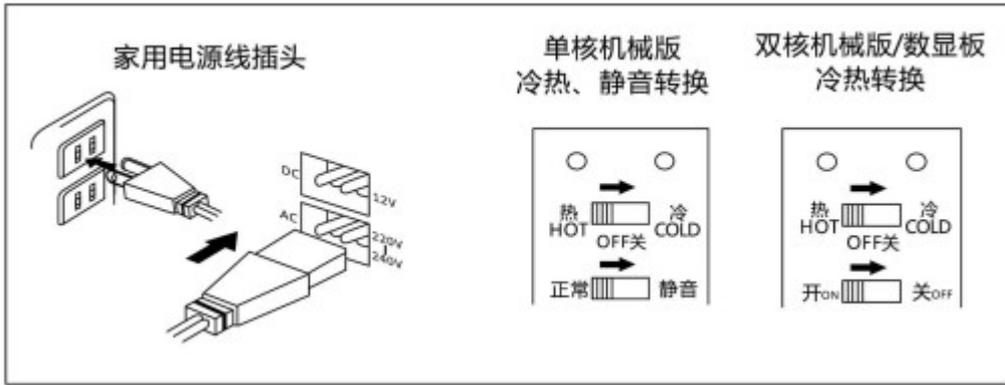
1. Start the car engine when the key power supply of the car is on;
2. Align the vehicle power cord with the vehicle socket of this machine and insert it to the bottom.
3. Plug the 12V plug of the vehicle power cord directly into the socket of the vehicle cigarette lighter;
4. The dual-core mechanical version/digital display version needs to turn the voltage switch to the "ON" gear (i.e. DC gear); According to your requirements, the switch can be pushed to the "cold" or "hot" position, the green light starts cooling, the red light starts heating, the switch is in the "off" position, the indicator light is not on, and the refrigerator is in a shutdown state
5. Dual-core NC version on/off: control panel, press "key for 1 second to turn on, press long key for 3 seconds to turn off



Plug for vehicle power cord	车载电源线插头
Single-core mechanical version cold, hot and mute conversion	单核机械版冷热、静音转换
Refrigeration and heating Conversion of Dual-Core Mechanical Plate/Digital Display Plate	双核机械版/数显板冷热转换

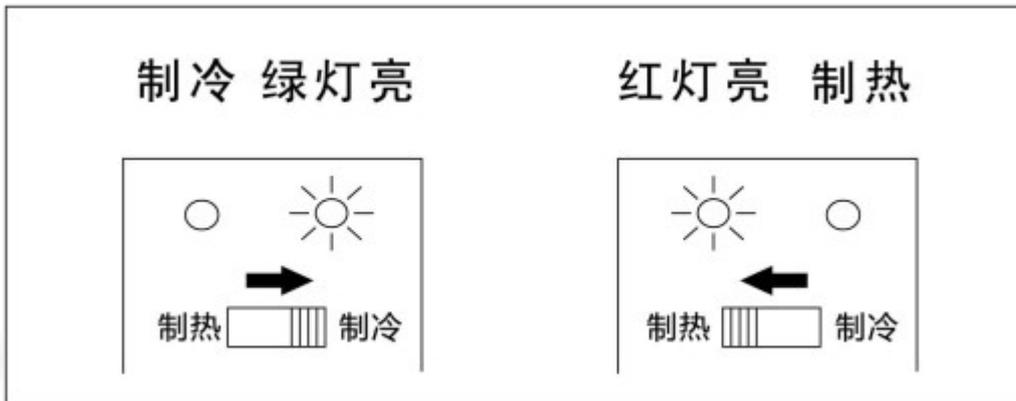
II. Domestic power supply (220V-240V AC) link

Insert one end of the household power cord into the AC socket (AC 220-240V) of the refrigerator. For the dual-core mechanical version/digital display version, push the voltage conversion switch to the "OFF" position (namely AC position), and insert the other end of the power cord into the ordinary household socket.



III. Single-core mechanical board and dual-core digital display board: cooling and heating operations

1. When refrigerating, turn the switch to "Refrigeration". At this time, the green light is on and the refrigerator starts to refrigerate.
2. When heating, turn the switch to "Heating". At this time, the red light is on and the refrigerator starts heating.
3. When closing, turn the switch to the middle "off" and the refrigerator stops working;
4. When switching between cold and hot, first turn the switch to the "off" position in the middle, wait at least 5-10 minutes before switching the switch to the cooling or heating state. If the switch is directly switched between cold and hot without stopping, the refrigerator refrigeration system may damage the refrigeration plate due to drastic temperature changes.



Cooling green light on	制冷绿灯亮
Red light lights up for heating.	红灯亮制热
Refrigeration	制冷
Heating	制热

Three, dual-core CNC operating instructions

1. Turn on/off: press "⏻" for 1 second for short and press 3 seconds for long to turn off;
2. Refrigeration: Click the "You" key to enter the temperature setting mode, and the temperature display screen will flash to set the temperature. At this time, press the "▲" "▼" key to add and subtract the temperature, click "You" again or wait for 5 seconds to exit the setting mode. When

the set temperature is lower than the current ambient temperature by 2°C, turn on the refrigeration, the blue indicator will be on, and the current temperature will stop within the set temperature of 2°C. Heating: when the current set temperature is 2°C higher than the box temperature, turn on the heating, the red indicator will turn on, and stop when the temperature reaches the set temperature of 2°C.

3. When switching between refrigeration and heating, turn off the refrigerator first, and wait at least 15 minutes before adjusting the temperature to the cooling or heating state. If the refrigerator is directly switched between refrigeration and heating without stopping, the refrigeration system of the refrigerator may damage the refrigeration plate due to drastic temperature changes.



Dual-Core CNC Edition-Control Panel	双核数控版-控制面板
Switch	开关
Control key	控制键
Warming	增温
cooling	降温
Dual-Core Digital Display-Display Panel	双核数显版-显示面板
Green light	绿灯
Red light	红灯

Use Skills of Thermoelectric Containers

1. The closer to the refrigeration position, the better the refrigeration effect;
2. When ice drinks are made, metal pop cans are selected for better effect.
3. Keep watermelons and other fruits fresh, cut them into two halves, seal the plastic wrap, and then close the plane to the inner wall of the refrigerator.
4. Keep food fresh, first place the food on a flat stainless steel plate, seal the film, and then place the whole flat bottom of the plate close to the inner wall of the refrigerator;
5. Cosmetics and medicines are refrigerated and spread evenly on the inner wall of the refrigerator. The closer to the cooling plate, the better.

Cold Storage Temperature Reference

1. Fruits: refrigerated fruits: fresh fruits are stored in a refrigerator, the temperature in the refrigerator is about 0-10 deg c, the quality and flavor of the fruits can be maintained, and the preservation period of the fruits is prolonged;
2. Beer: The storage environment temperature should be between 0-15°C, preferably around 10°C, while bottled beer should be kept between 5-25°C.
3. Tea: If the temperature is controlled between 5-10°C, the preservation effect of tea quality is

good, and generally the flavor of tea can be kept unchanged for more than 1 year.

4. Cosmetics/skin care products: It is generally required to store cosmetics (skin care products) at room temperature below 25°C. The best temperature for storing cosmetics (skin care products) is 10-14°C. Therefore, too high or too low heat preservation will deteriorate cosmetics, while cooled cosmetics (skin care products) will have a good feeling of cooling hot skin and will make skin shrink and comfortable.

5. Drugs: The refrigeration temperature of domestic drugs should be set according to the requirements of the drug instructions. Generally, the normal temperature refrigeration temperature is below 20°C, and the best temperature is between 2-10°C.

Scope of Application

1. Applicable places: car, household, yacht, office, dormitory, cosmetics store, etc.
2. Suitable for cold storage: fruits, bottled/pop can beverages, tea, medicines, breast milk, cosmetics, etc.
3. Not suitable for cold storage: ice cream, ice cream and other foods to be frozen, chemical reagents, fresh and meat (cooked food can be stored for 5-8 hours)

General Troubleshooting

1. If the refrigerator does not work, please check whether the power supply is connected to the socket. It may be that the cigarette holder igniter cannot be ignited. Please operate according to the following measures

- a) Check whether the cigarette holder igniter is open
- b) Check the cigarette holder. it may be improperly connected or the base may be contaminated. please wipe it with a nonmetallic brush.

2. If the cooling effect is not good, please follow the following measures

- a) If the refrigerator does not cool well and the fan does not rotate, the fan may be damaged, please go to the repair center for repair.
- b) If the fan operates normally without hydraulic condensation effect, this is the problem of the cooling plate, please send it to the repair center for repair in time.

Cleaning and Maintenance

1. Must first turn off the hot and cold switch, pull out the plug, cut off the power supply;
2. Wipe the dirt and dust on the surface of the machine with a little cleaner on a soft cloth. The inside of the machine can be tested with warm water.
3. Do not directly shower or clean the machine body with water, especially switch socket heat dissipation entrances and exits and other parts of the machine body, do not splash water, otherwise it will cause damage to product parts and even electric shock hazard.