Thermoelectric Beverage cooler / Wine cooler maintenance Manual

Listed below are various faults that may occur during the use of thermoelectric beverage cooler/wine cooler , as well as methods for finding and solving these faults, for reference.

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illustrate :

Before maintenance, please disconnect the power supply to avoid electric shock or life-threatening danger!

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1. Preparation before maintenance

Tool List

1. Pliers
2. Phillips head screwdriver
3. Multi meter
4. Wire strippers
5. Electric soldering iron
6. Power meter

2. Fault Analysis

Fault phenomenon	Root causes	Maintenance method
No display on the display	Is the power on, is the plug firmly inserted, and is the power plug in good contact?	Connect the power cord or plug in the power cord
	The power supply connector of the power board has poor contact	Plug in the connector
	Power board damaged	Repair or Replace
	The signal connection harness is broken	Repair or replace wiring harness
	Display panel damaged	Repair or Replace
	Power board damaged	Repair or Replace
Key failure	Improper button (spring) assembly	Repair or Replace
	Display panel damaged	Repair or Replace

No refrigeration	Heating network failure (heating network leaks refrigerant), refrigeration system failure	Replacement of heating network components or cooling system
	Temperature sensor defective	Replace the temperature probe
	Defective power board	Replace the power board
	Missing short-circuit ring	Reinsert the shorting ring
Refrigerator freeze	The short-circuit ring is not inserted in the specified temperature control position	Changing the shorting ring insertion position
	Door seal leaks air	Check whether the door seal is installed properly
Door light flashing	Defective power board	Replace the power board
Abnormal noise during operation	Defective power board	Replace the power board

3. The relevant information you need to know from Customer

Step 1	Understand the bad order number and the QR code on the back of the product, product model, customer environment temperature and ventilation, whether there is direct sunlight, how long it is used, how often it is used, etc.
Step 2	Collect relevant bad pictures and video information
Step 3	According to the feedback of bad information, we will gradually check the specific bad problems and provide maintenance solutions.

4. Fault code prompts and maintenance instructions

Table 1 Fault code table

Fault Codes	describe	Processing
EE	The temperature probe is short-circuited or open-circuited.	Replace the probe or repair the wiring harness
LL	The temperature is detected to be below 0 degrees	Place in an environment with suitable temperature
HH	The temperature is detected to be higher than 37 degrees	Place in an environment with suitable temperature
--	Communication failure	Check the communication cable

5. Troubleshooting Guide for Common Performance Problems

No.	Fault phenomenon	Troubleshooting	Maintenance method
1	No refrigeration	1、Confirm the ambient temperature and set temperature of the product . If the ambient temperature is lower than the set refrigeration temperature, the product cannot perform refrigeration. Also, avoid direct sunlight that may affect the refrigeration performance of the product. 2、Check whether the temperature sensor is damaged . Open the door for 3-5 minutes and check whether the temperature value on the display panel has changed. If the temperature rises, it means that the temperature sensor is good. If the temperature does not change, it means that the temperature sensor is bad and needs to be replaced. 3、Check whether the display is normal. If it is not normal, replace the control board. 4. If there is no abnormality after the above inspection, the possible cause is a bad refrigeration system (including bad refrigeration plate), and the refrigeration system needs to be replaced	Replace parts according to the inspection results
2	Temperature sensor defective	Check and replace according to the alarm displayed on the display screen. See the fault code prompt for the fourth item	Replace parts according to the inspection results
3	No electricity	1、Check whether the power socket is properly connected 2、Check whether the power board terminals are loose. If so, reconnect the terminals. 3、If all the above checks are OK, it means the power board is bad.	Replace parts according to the inspection results
4	Abnormal sound	1、Fan abnormal sound: ① The internal lead is loose and scrapes the fan, and the fan makes a sound when it rotates. You can disassemble the back panel to check whether the lead scrapes the fan. If so, fix the lead. ② If after troubleshooting, there is no wire hanging on the fan causing abnormal noise, then the fan needs to be replaced. 2、If there is a "squeaking" sound during use , it is mainly due to a defective power board, which needs to be replaced	Replace parts according to the inspection results
5	show " ------ "	Indicates control signal transmission error Troubleshooting plan: Remove the door seal and the screws that fix the control board, check whether the connecting wires between the control board and the power board are loose, unplug the wires and reinsert them into the interface to check whether they are normal. If the " ------ " signal still appears , it means that the control board is defective and needs to be replaced.	Replace parts according to the inspection results