Glycol Chiller Instruction Manual

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Supplier of Draft Beer Dispensing Equipment and System Solutions

Talos
www.talosusa.com

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Overview

This instruction manual is an important part of theproduct and an indispensable part,Please keep it properly.

The precautions recorded in this manual are very important information. Please read carefully so that you can install, use and maintain the equipment correctly. This product is a glycol Glycol Chiller and can only be used for designated purposes, beyond the designated purposes Other uses are considered improper and can cause danger.

The manufacturer does not assume any responsibility for any losses caused by incorrect installation or irregular use.

In order to better service, TALOS will continue to develop more models, while continuously optimizing and improving product quality, and may make slight improvements in appearance and component details. If there are differences, we will not notify you, nor do we need to bear any obligations and responsibilities.

If you have any questions, please contact TALOS.

1.Safety precautions

Do not use multiple power strips, which may cause overheating or fire.

Do not place heavy objects on the wires.

There should be no foreign matter or wire entanglement on the wire.

Do not operate the power plug with wet hand.

When unplugging the power plug, please hold the plug body and pull it out, not pull out the plug by the power cord, otherwise the power cord may be damaged.

1. The power supply voltage must be kept within the rated voltage range required on the nameplate of the machine. If it exceeds this voltage range, it may cause smoke, fire,mechanical failure, or unavailability.

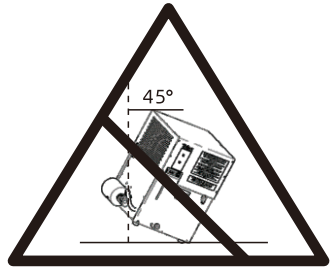
2. The electrical power supply must be entrusted to a professional company or personnel for construction according to the rated voltage of the machine.

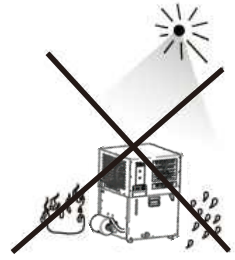
3. Please use a socket that can be connected to the ground terminal, and make sure that the ground wire on the side of the socket is well connected. 4. The socket must meet or exceed the rated current requirements of the machine. If the installed socket does not have the conditions to connect to the ground terminal, you can use the special fixing screw for the ground wire on the front of the machine to connect the ground wire (the wire for the ground wire is not an accessory, please prepare your own locally).

5. When installing, make sure that the wires are not pressed by the machine or pressed by heavy objects. Can not be entangled by other objects. 6. Some high-spec products may be equipped with an anti-leakage protector on the power line when they leave the factory. You must test whether the switch action of the protector is effective once a month. If the machine indicator does not light up, it is possible that the leakage protector on the machine has been cut off. At this time, the machine needs to be checked. There may be leakage caused by some external reasons, which may cause the leakage protector to automatically cut off the power.

7. Others: ①Whether the plug protection cover is fastened tightly. If it is not tight, it may cause poor contact and power failure. Please do not plug or unplug the power plug with wet hands. When unplugging the power plug, please hold the plug body and pull it out. Do not pull the plug by the power cord, otherwise the power cord may be damaged. ②Do no connect the ground wire to the gas pipe Roads, water pipes, lightning rods, telephone lines, etc. Improper grounding may cause electric shock.

2.Storage and transportation instructions





Keep away from heat sources, avoid direct sunlight, and prohibit damp, water-drenched rings

①Glycol Chiller : It can only be transported after being packed in a professional carton.

② Boxes packed in cartons should be placed horizontally and evenly on the vehicle. And it is fixedwell toprevent the box fromcolliding, falling, turning over and tilting during the driving process.

③Do not carry the machine by one person, wear gloves when carrying it, hold the bottomplate, and move the machine. Try to keep the cabinet upright, do not tilt more than 45°, and avoid placing it horizontally or upside down.

④The Glycol Chiller should be stored on a flat ground, and the indoor temperature should be within +5° ~ +40°. The relative humidity cannot exceed 60%, and there is no acidic, alkaline or gaseous smoke in the air.

3. Unpacking inspection

After receiving the product, you should unpack and check:

①Check whether the outer packaging is intact, if it isseverely damaged, reject it or contact customer service.

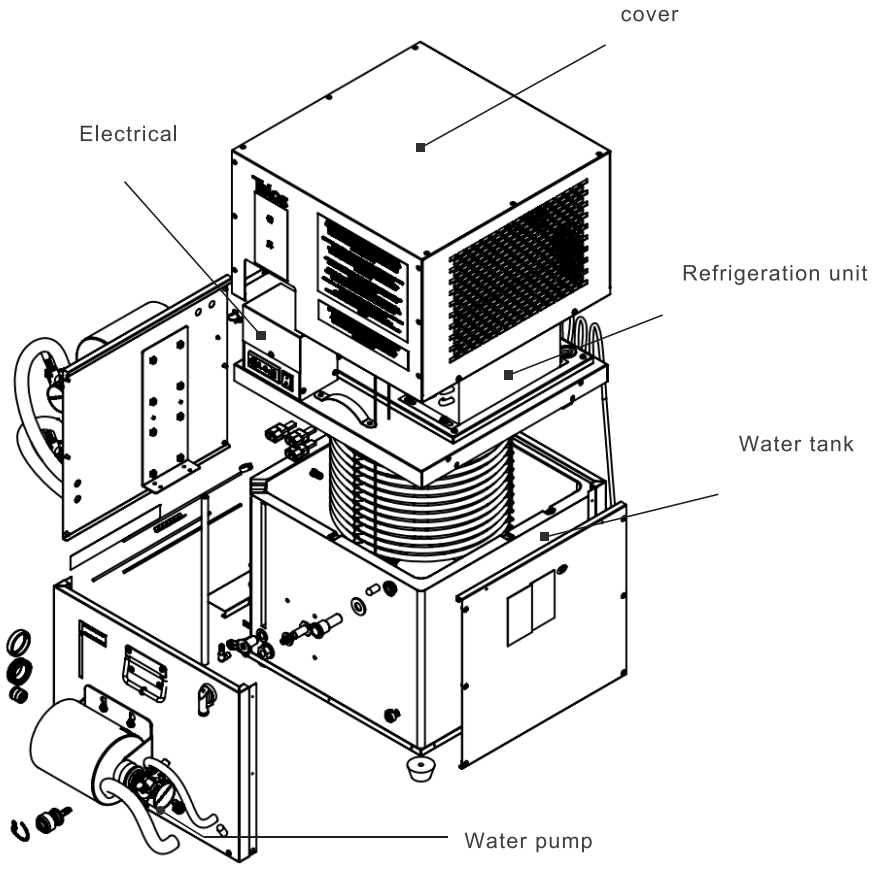
② Use a knife to cut the sealing tape on the packaging carton. Do not cut the knife too deep into the carton when cutting, to avoid scratcheson the appearance of the product.

③Check the appearance of the machine. If the appearance of the product is damaged at the factory or during transportation, contact customer service for processing.

④ Take out the products in the box one by one, count the number of products, if there isany missing, contact customer service.

4. Installation

4.1 Assembly drawing



4.2 Installation and removal tools

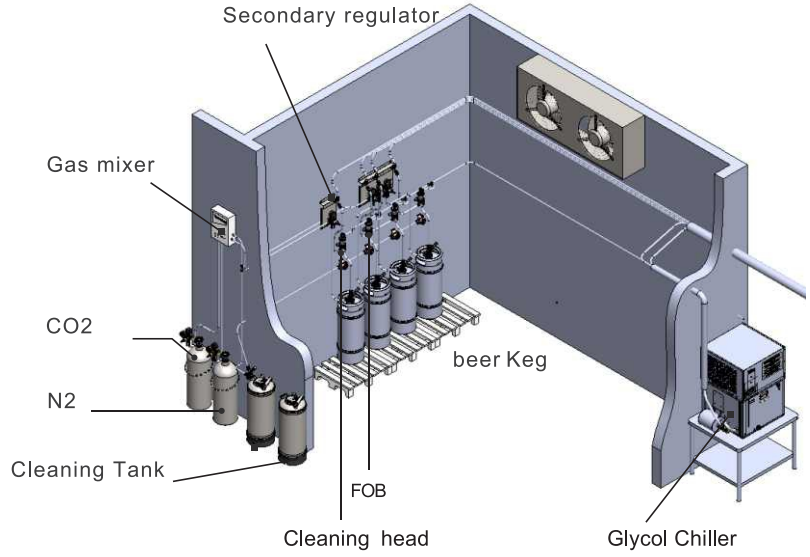
Screwdriver

Wrench

Hose cutter

Clamp Pliers

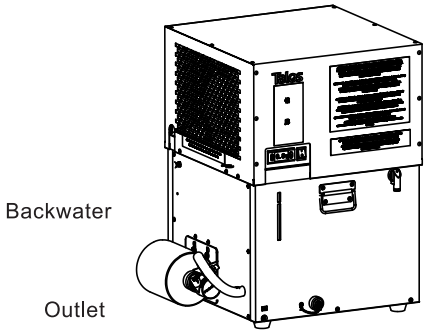
4.3 Usage scenarios



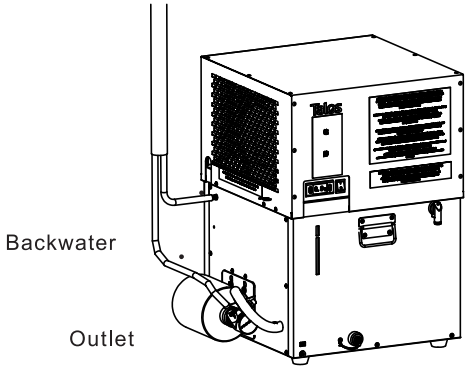
The placement position as shown in the figure should ensure that there is at least 50 cm spacing on the left, right, and back of the ethylene glycol Glycol Chiller. The floor of the placement position must be flat, and the indoor temperature must be 5°C~40°C. (Except for the machine itself, other products need to be purchased separately.)

5. Instructions

5.1 Line connection



(Picture 1)



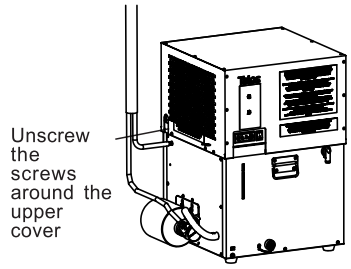
(Picture 1)

Step 1: Find the outlet port on the water pump and the backwater port reserved on the side of the water tank, and remove the protective cover, (as shown in Figure 1 above)

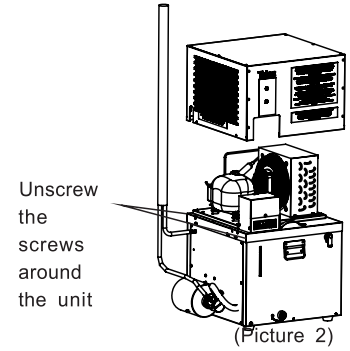
Step 2: Connect one of the circulating water pipes to the outlet of the water pump, and the other to the water return to form a loop.

After the connection is made, the exposed circulating pipes should be insulated. (Picture 2 above)

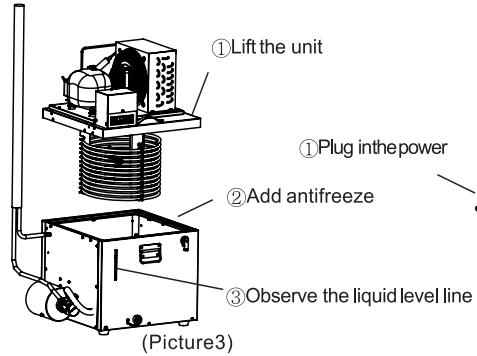
5.2 Operating instructions



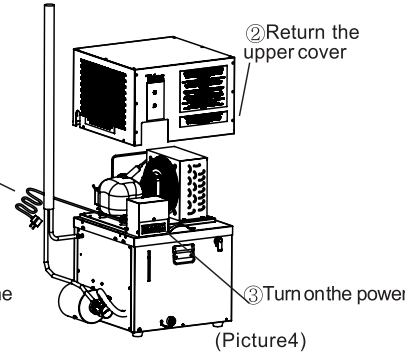
(Picture 1)



(Picture 2)



(Picture3)



(Picture4)

Step 1: Use a crosss crew driver to unscrew the screws around the upper cover, and you can take off the upper cover. (Asshown in Figure 1)

Step 2: Use a crosss crew driver to unscrew the screws around the refrigeration unit and lift the unit or push it to one side. (Asshown in Figure 2)

Step 3: Open the refrigeration unit, and add the ethylene glycol solution that has been prepared, and the added volume can reach the indicating mark. (Asshown in Figure 3)

Step 4: Plug in the power cord and thewater pump cord to start the power supply. After running, the glycol level will drop. Continue to add glycol solution to thewater tank to the indicating scale. After the filling iscomplete, replace the cover. (Asshown in Figure 4)

Note: If the business needs to be cooled at least 8 hours in advance to ensure normal business.

5.3 Temperature control adjustment method

The temperature control probe is inserted in S2 and set: the following settings (exit function.)

The key is the confirmation function,

ECO Keyforexit function

Temperature display function setting method:

Display UNP, press the up and down keys at the same time for 5 seconds to press the up key twice to display Asi, press the enter key to display USA; press the down key 9 times to display S1A, press the enter key to enter, display SCO, press the key once to adjust to nC;

Press the confirm key to display S1A; press the down key once to display S2A, display nC, press the confirm key, press the up key once to adjust to SCo; press the confirm key to display S2A, press to exit the temperature page,The temperature can be displayed.

Turn off ECO method:

Press the up and down keys at the same time for 5 seconds to display tHE, Press down 10 times to display Ecs, press confirm to display Eco, press confirm to display Yes, press once to set it to no.

Water cooling -1.6 (29F) open -3.3 (26F) stop setting method:

Press the up and down keys at the same time for 5 seconds to display tHE, Press OK to display SEt, press OK to display 2.0, set to -3.3;

Press OK to display SEt, press once to display SPr, press OK to display 0.5, press to adjust to 0.0; press OK to display SPr, press once to display diF, press OK to display 1.7, no need to change

Press OK to display diF, press twice to display LSE, press OK to display -35, press up to -5; press OK to display LSE, press to exit to the temperature display interface.

The setting method of the American Fahrenheit temperature unit ℃ is set to F (such as the domestic display ℃, this step is not necessary):

Press the up and down keys at the same time for 5 seconds to display tHE, Press the last 7 times to display dis, press OK to display diC, then press 2 times to display CFu, press OK, -C appears, press the last time to set -F; (If you need to set the ℃, press it once. Can)!

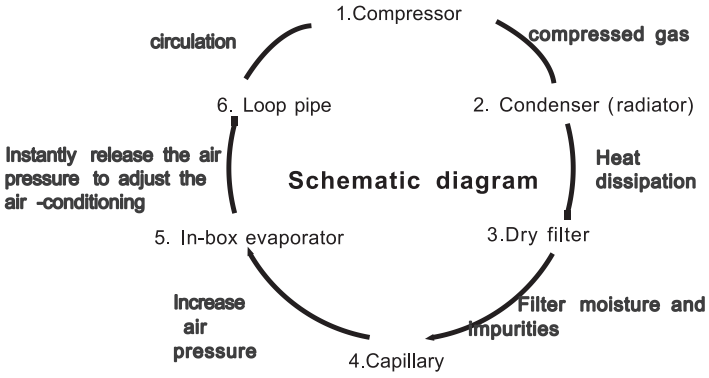
Press OK to display CFu, and press to exit to the temperature interface.

6. Technical parameters

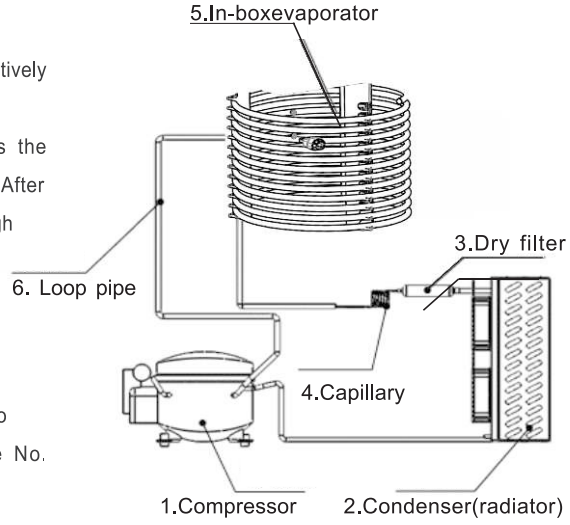
6.1 Performance and Parameters

Device parameters		
Model:	1085577	1085576
Water Tank:	55L	55L
Pump Type:	Vane	Vane
Moter of Pump:	1/3HP	1/3HP
Pump Capacity:	600(2pcs)L/h	300(1pcs)L/h
Pumping Head:	35m	35m
High-pressure:	260psig	260psig
Nominal Voltage:	208-230V	110-120V
Frequency:	60Hz	60Hz
Current:	6.6A	8.2A
Energy Consumption:	1200W	685W
Compressor Power:	3/4HP	1/2HP
Refrigerant:	R290/3.35OZ	R290/3.35OZ
Low-pressure:	145Pisg	145Pisg
Dimensions:	64*49*71(cm)	64*49*71(cm)
N.W.:	61kg	47kg

6.2 Opareation principle

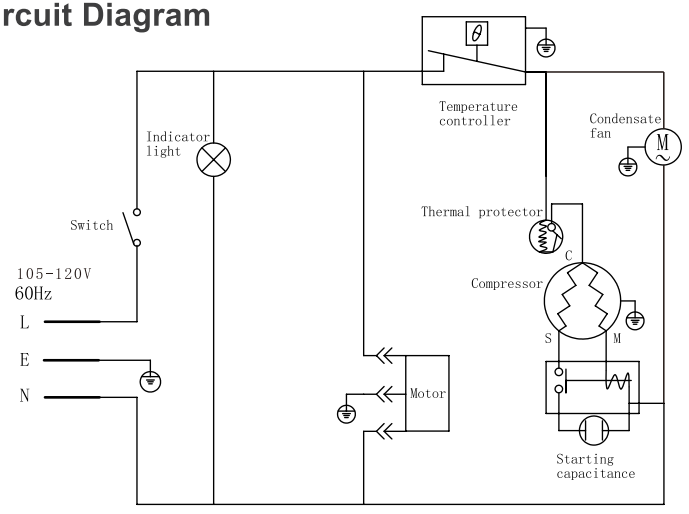


The oparean principle of refrigeration: the refrigerant enters through the compression of No. 1 compressor (because the line is compressed gas, there will be a relatively high temperature) No. 2 condenser reduces the temperature and enters the No. 3 filter drier to remove the gas After filtering and drying, pressurize through the No. 4 capillary tube and then enter the No. 5 evaporator.

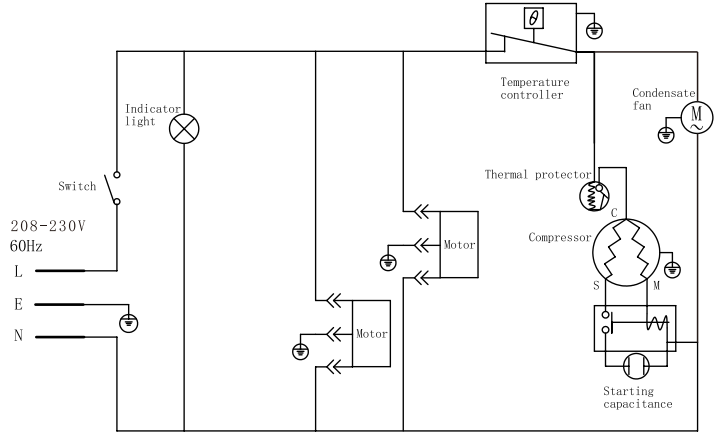


The high- pressure gas from the evaporator is instantly released to produce cold air, which enters the No. 6 loop pipe to the compressor for recirculation.

6.3Circuit Diagram



Model-1085576



Model-1085577

6.4 Safety tips

a)“DANGER - Risk Of Fire Or Explosion.Flammable Refrigerant Used. To Be Repaired Only by Trained Service Personnel.Do Not Puncture Refrigerant tubing".

b)“CAUTION -Risk Of Fire Or Explosion.Flammable Refrigerant used. Consult Instruction manual/Repair Manual/Owner's GuideBefore Attempting To Install Or Service This Product.AllSafety Precautions Must be Followed""CAUTION-Risk Of Fire Or Explosion.Flammable Refrigerant Used.Consult Repair BManual/Owner's Guide Before Attempting To ServiceThis This Product.All Safety Precautions Must beFollowed".

“CAUTION -Risk Of Fire Or Explosion.Dispose Of Property In Accordance With Federal OrLocalRegulations.Flammable Refrigerant Used"."CAUTION -Risk Of Fire Or Explosion.DueTo Puncture Of Refrigerant Tubing; Follow HandingInstructions Carefully. Flammable Refrigerant Used".

Remark: The shipping carton of the appliance that employs a flammable refrigerant shall be marked“Caution -Risk of Fire or Explosion due to Flammable RefrigerantUsed.FollowHandling Instructions Carefully in Compliance with US.Government Regulations”. The warning marking shall also appear on the shipping carton.The color and format of this symbol shall be as shown in Symbol W021 in Registered SafetySignsIso7010. The perpendicular height of the triangle containingtheCaution,risk of fire” sign shall be atleast 9/16 inch(15mm).

7. Maintenance

(Note: all the following operations must first turn off the switch and unplug the power plug)

7.1 Maintenance

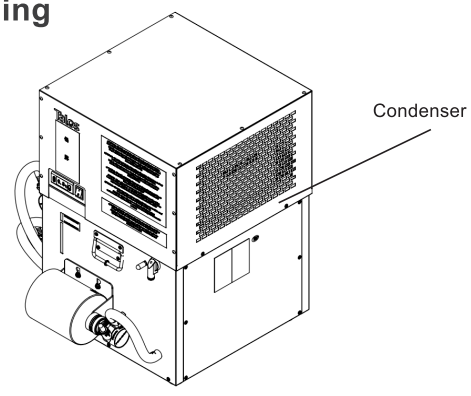
1. Check whether the glycol level in the water tank is full every month. If the level is low, add glycol solution.
2. If there is ice accumulation in the water tank, you need to melt the ice and replace it with a new glycol solution.
3. The glycol solution should be replaced every 18 months. If the solution is frozen, foreign matter, or turbid, it must be replaced in time.
4. It is necessary to check the heat dissipation and ventilation of the equipment regularly, and no obstacles are allowed to block the vents.
5. The condenser needs to be inspected and cleaned every 60 days.
6. The safety of the electrical circuit needs to be checked regularly.

7.2 Shell maintenance

Wipe the surface of the air-cooled machine with a dry cloth. If there are stains that are difficult to wipe with a dry cloth, wipe it with alcohol. Do not use corrosive cleaning agents when cleaning the surface of the air- cooled machine.

7.3 Condenser cleaning

Use a dry brush to clean the fins of the condenser. Keeping the condenser clean is helpful for heat dissipation and cooling.



8. Fault identification and Elimination

Number	Anomalies	Analyze	Method of exclusion	Remark
1	The compressor does not work	Power supply voltage is low	Check the supply voltage	Electrical maintenance personnel repairs
		Compressor motor winding burned	Check/replace motor winding	Refrigerator repair qualified personnel repair
		The compressor and protector urned out	Change protector	
		Compressor running components are stuck	Check/repair compressor	
		The temperature control switch is not set	Check the adjustment switch	Draft beer machine operator
2	The compressor does not stop	The temperature in the compressor is not adjustable, and thesensor and the ther mostat are in poor contact or damaged	Re-fix/replace thesensoror thermostat	Refrigeration electrical maintenance qualified personnel maintenance
3	The compressor stops and starts frequently	Condenser fan doesn't rotate	The fan motor shaft loses oil and needs to be refueled	Maintenanceby personnel qualified to repair refrigeration appliances
			The motor winding column burned out and needs to be replaced	
		Short circuit of compressor windings	Check/replace compressor	
4	Draft beer machine is not cooling	Short circuit of compressor windings	The fan on the side of the compressor is working, touch the compressor with your hand. If the compressor does not vibrate , it means that there is a problem with the compressor circuit or the compressor is faulty. Call electrical maintenance personnel to check the circuit. If there is no abnormality in the circuit, the compressor is faulty.	Thelinemustberepaired by qualifiedpersonnelfor electrical repair, and the compressor mustbe repaired byqualified personnel forrefrigeration electrical repair
		Insufficient refrigerant	Open the upper cover of the draft beer machine, lift the unit, and pinch the refrigeration tube in the water tank with your hand. If you feel that there is no cold feeling on the tube, it means that the refrigerant is insufficient and you need to call the refrigeration maintenance staff to repair it.	Confirm that the compressor is working, and the maintenance personnel must be qualified to repair refrigeration appliances
		Condenser cooling fins are more dusty, resulting in failure to dissipate heat normally	Open thedooroftheдraftbeer machine anduseabrushtoclean thedustonthefins	Do not touch the fins with metal brushes and blunt objects
		Condenser failure, unable to dissipate heat	Remove the lower left panel of the nacelle of the draft beer machine, the fan beside the compressor is not working	Maintenancebypersonnel who needrefrigeration electrical maintenance qualification

Number	Anomalies	Analyze	Method of exclusion	Remark
4	Draft beer machine is not cooling	The thermostat is malfunctioning	Adjust the electronic temperature control to the highest level, the compressor or the fan beside the compressor does not work, it can be determined that the temperature controller isdamaged and needsto be replaced.	The replacement thermostat needs to purchase a matching thermostat model from the manufacturer of the draft beer machine. The replacement must be carried out by qualified personnel with electrical maintenance.
		The unreasonable place ment of the draft beer machine resulted in insufficient space for the radiator and the inability to fully dissipate the heat	Check whether there isa 50cm space around and above the draft beer machine.	Do not put in a sealed cabinet

9. Packing Details

name	unit	QTY	Remark
beer cooler	pcs	1	Power cord included
Warranty Card\Quality Certificate	pcs	1	
Instruction manual	pcs	1	