

## BACK BAR COOLER



### INSTRUCTION MANUAL



CONFORMS TO UL STD.471  
CERTIFIED TO CSA STD. C22.2  
NO.120  
Conforms to NSF/ANSI STD. 7



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# INTRODUCTION

A great addition to any operation with bar service, this back bar cooler is the perfect place to chill bottles of beer and cider. Featuring glass doors, durable construction, and eco-friendly refrigerant, this back bar cooler makes it easy to provide patrons with their favorite beverage quickly and easily. Whether full of specialty options or popular customer favorites, this unit is engineered to support your business and make it easier to serve customers with the quality and attention you strive to provide.

Designed to maximize your drinks sales is the back bar cooler, keeping your best sellers attractively merchandised and ready to serve thanks to the internal LED light and easy to use digital controls and display. Capable of holding up to 190 x 330ml bottle across 4 adjustable shelves it is ideal for busy bars and restaurants. Plus, back bar coolers can store other items such as milk and cream, along with food ingredients for beverage garnishes, including olives, onions, pickles and more.



## Product Features:

- Fan-assisted cooling
- 4 Adjustable shelves
- Energy efficient Low-E multi glass doors
- Interior light with an independent switch
- Electronic controller with digital LED display
- Holds 32 °F to 50 °F
- Automatic defrost
- Locks and keys
- Capacity: 190 x 330ml bottles.

## Technical Specifications

<b>Model</b>	<b>WX-BBC-209</b>
<b>Capacity</b>	7.4 cu.ft
<b>Voltage</b>	110V/60HZ
<b>Dimensions(L*W*H)</b>	21.18" x 20.66" x 69.76"
<b>Weight</b>	130LBS/59KG
<b>Cooling System</b>	Fan cooling
<b>Refrigerant</b>	R600a
<b>Temperature Range</b>	32°F -50°F
<b>Defrost</b>	Automatic
<b>Climate Class</b>	ST ~ T
<b>Door No &amp; Type</b>	2 Hinged Glass Door
<b>Tempered Glass</b>	Yes
<b>Low-E Glass</b>	Yes
<b>Shelves No.</b>	4
<b>Interior Light</b>	LED
<b>Lock &amp; Key</b>	yes
<b>Type of Controller</b>	Digital

## Details of Product



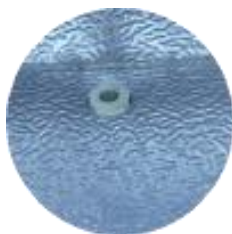
Dynamic Cooling



Low-E Glass Door



Inner Light



Drainage Hole



Electronic Controller



Adjustable Shelves



Lock

# SAFETY PRECAUTIONS

This manual contains the product's basic knowledge, use instruction, fault diagnosis and basic trouble shooting methods. In order to better understand and use this product, please take good care of this manual and read it carefully.

The purpose of the safety precautions in this manual is to ensure safe and correct use of the unit to minimize risks that could cause serious damage and injury. These safety precautions are divided into WARNINGS and CAUTIONS. Cases where improper handling of the unit could lead to death or serious injury are listed under the "WARNING" heading. However, the cases listed under the "CAUTION" heading could also lead to serious results, to ensure the safety, adhere strictly to both types of safety precautions.

## Refrigerant Safety & Warning Information



**CAUTION!** Keep all ventilation openings clear of obstruction in the appliance enclosure or in the structure housing the appliance.



**DANGER!** Risk of fire or explosion, Flammable refrigerant used, Do not damage the refrigerant circuit. Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.



**DANGER!** Risk of fire or explosion, Flammable refrigerant used, consult repair manual/owner's guide before attempting to service this product. All safety precautions must be followed. Dispose of properly in accordance with local and federal regulations. Follow all safety precautions.



**CAUTION!** Do not store any explosive substance such as aerosol cans with a flammable propellant into this appliance.

## Basic Safety & Warning

- Take care during operation, maintenance or repair to avoid cut or pinching from any part / component of the cabinet.
- Ensure the unit is properly installed and located in accordance with Installation Instructions before use.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- DO NOT allow children to play with the appliance or climb, stand, or hang on the unit's shelves to

prevent damage to the refrigerator and personal injury.

- The appliance shall be disconnected from its power source during cleaning or maintenance and when replacing parts.
- When the cooler will be not be used for a long time, disconnect the power and clean it. Please examine the circuit before reuse.
- DO NOT store or use gasoline, or other flammable vapors and liquids, in the vicinity of this or any other appliance.
- DO NOT store explosive substances such as aerosol cans with a flammable propellant in this appliance.
- Strong base, strong acid, organic solvent and corrosive goods or those are easy to pollute to food are prohibited storing in the cooler, otherwise, it can cause corrosive problem or accident.
- DO NOT use other electrical appliances inside the food storage compartments of the appliance, unless they are of the type recommended by the manufacturer.
- The LED light must not be replaced directly by the user! If the light is damaged, please contact the customer service for assistance.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- When disposing of the appliance, do so only at an authorized waste disposal centre. Do not expose to flame.
- When positioning the appliance, ensure the supply cord is not trapped or damaged.
- Make sure the power cable does not come in contact with sharp or hot objects and keep away from open fire.
- If the supply cord is damaged, it must be replaced by a special cord or assembly available from the manufacturer or its service agent.
- ATTENTION! As long as the power plug is in the electrical socket the appliance is connected to the electric grid.
- Before you scrap the appliance, please take off the doors to prevent children trapped.



***DANGER! RISK OF CHILD ENTRAPMENT***

***Child entrapment and suffocation are not problems of the past.***



The symbol is a warning and indicates the refrigerant and insulation blowing gas are flammable.

Warning - Risk of fire / flammable materials.

Warning - Do not store explosive substances such as aerosol cans with a flammable propellant in the unit.

Warning - Do not locate multiple portable socket-outlets or portable power supplies at the rear of the appliance

Warning - The refrigerant and insulation blowing gas are flammable. When disposing of the appliance, do so only at an authorized waste disposal centre. Do not expose to flame.



**WARNING** Improper handling of the unit could lead to death or serious injury.



**CAUTION** Improper handling of the unit could lead to serious results depending on the circumstances.

#### NOTE:

Text set off by the exclamation mark contains information that should be strictly adhered to.

After reading the instruction manual, store it in an easily accessible place where the user(s) of this product can easily find it.

## Precautions for Installation

### **WARNING**



Installation should be performed only by the dealer or a qualified expert. Attempting to install the unit yourself could result in water leakage, refrigerant leakage, electrical shock, or fire.

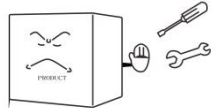


**Precautions for Use**

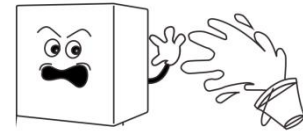
**! WARNING**



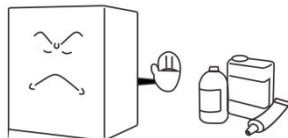
All repairs, disassembly and modifications should be performed only by qualified technicians. Attempting to perform these yourself could result in a fire, malfunction, and injury.



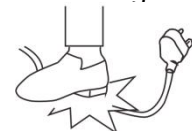
Never splash water directly onto the product or wash with water as short-circuit and electrical leakage could result.



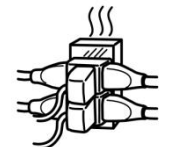
Never put flammable or volatile substances into the unit as explosion and fire could result.



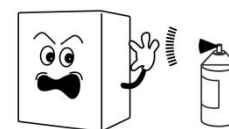
Do not damage, modify, excessively bend, strain, twist or bundle up the power cord. Also, placing heavy objects the power cord or squeezing it in a tight place could damage it, possible resulting in electrical shock or fire.



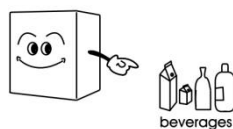
Use a dedicated wall outlet. Do not use extension cords or convenience receptacles as this could result in electrical shock, overheating and a fire.



Never use flammable spray cans or leave flammable substances near the unit. Sparks from electrical switches could result in explosion and fire.



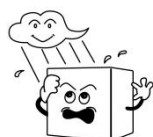
The cooler is intended for storage and display of beverages for sale. Do not use for other purpose than intended as this could adversely affect items placed in the unit.



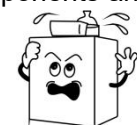
Never attempt to insert fingers, sticks, etc. Into the cold air suction outlet as a circulation fan is rotating at high speed inside the outlet. Injury, electrical shock and improper operation could result.



For indoor use only. Using the unit in a location exposed to rain could result in electrical leakage and electrical shock.



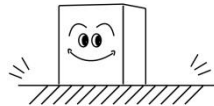
Never place heavy objects or items containing water on top of the unit. Objects could fall down and cause injury and spilled water could deteriorate the insulation of electrical components and result in electrical leakage.



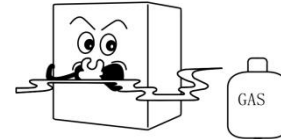


**⚠ WARNING**

**!** Install the unit in a location where the floor is sturdy enough to support the load of the unit. If the floor is not sturdy enough or installation is incorrectly performed, the unit could tip over and falling shelves and products could cause personal injury.



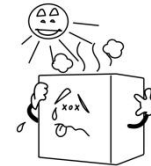
If you find gas leakage, please don't touch the appliance. Turn it off and open the doors and windows for ventilation. Gas leakage could cause explosion, fire, and fire injury.



**!** Store the unit in a location where it is not exposed to rain. Using a unit that has been exposed to rain could result in electrical leakage and electrical shock.



**!** Keep away from hot air sources. Cooling performance is reduced if the unit is placed near heat sources such as hot plates and stoves and if it is exposed to direct sunlight.

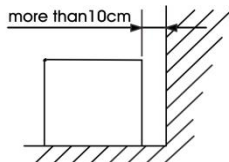


**!** Leave disassembly and disposal of the unit to qualified experts.

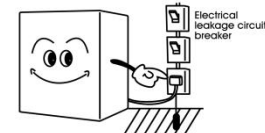


**!** Should the unit need temporary storage, make sure not to store the unit in a location where children play and take precautions so that the door cannot be completely closed. This will minimize the risk that a child becomes trapped inside the compartment.

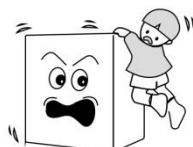
**WELL VENTILATED PLACE**  
Please make sure there is more than 10cm space between UPRIGHT COOLER and the wall. If there is no space, cooling capacity can drop down.



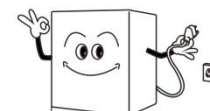
If installation in a damp location is unavoidable, also install an electrical leakage circuit breaker. If no electrical leakage circuit breaker is installed, electrical shock could result.



**⊘ PROHIBITED** Never hang from the door or climb onto the unit. The unit could tip over or fall and cause material damage or injury.



Disconnect the power cord plug from the wall outlet before moving the unit and make sure that the power cord is not damaged during transport. A damaged power cord could result in electrical



**⚠ WARNING**



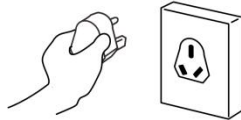
Grasp the handle when closing the door. Holding at other positions could result in pinched fingers and injury.



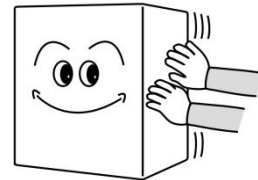
Do not push hand against or apply excessive force to glass surfaces as the glass could break and cause injury.



When disconnecting the power cord plug from the wall outlet, hold at the plug main body close to the outlet. Pulling the cord could cause wire breakage, possibly resulting in overheating and fire.



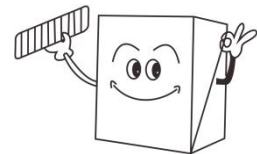
Make sure that the unit does not tip over or fall when it is moved. A falling unit could cause serious injury.



Do not throw items onto the shelves and do not place items totaling more than 25 kg on each shelf. The shelf could fall down, possibly causing injury.



Be sure to attach and secure shelves correctly. An improperly attached shelf could fall down and cause injury.



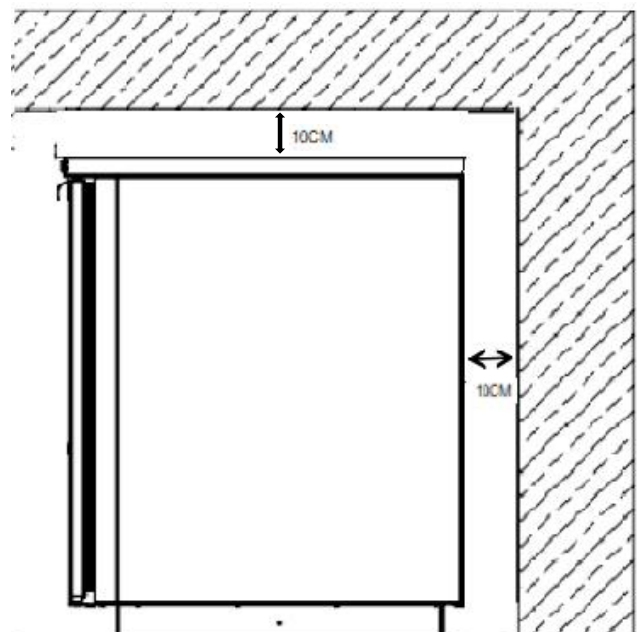
# INSTALLATION

## Guides to Choose Location

Due to the fact that the unit has a glass door, its performance is highly influenced by environmental conditions. To minimize the effects on the unit's performance, the following are recommended:

- The appliance must be positioned on a flat and stable surface. If the surface is uneven, the unit may be noisy. The unit may malfunction if the surface is uneven.
- The unit is not exposed to direct sunlight, or is not to be placed near any kind of heat source such as a cooker, oven or radiator. Place the refrigerator in the coolest and best ventilated part of the room.
- The unit is not to be placed near or inside air streams produced by ventilation fans, open doors and/or windows.
- When positioning the appliance, maintain a distance of 10 cm (4 inches) between the appliance and walls or other objects for ventilation and ease of use.
- Keep all ventilation openings in the appliance enclosure or in the structure clear of obstruction.
- In order to reduce fire hazard, the installation of this appliance must be carried out only by a suitably qualified person.
- Position the appliance in such a way that the plug is accessible at all times.

## Openings & Plan Views



## Electrical Safety

- Be sure to follow the National Electrical Code, as well as local codes and ordinances, when installing the receptacle.
- Before your new unit is connected to a power supply, check the incoming voltage. Please refer to the electrical requirements on the unit's nameplate.
- Do not use an extension cord with this appliance. If the power cord is too short, have a qualified electrician or service technician install an outlet near the appliance. Use of an extension cord can negatively affect the performance of the unit.
- Do not, under any circumstances, cut or remove the third ground prong from the power cord supplied.
- Improper use of the grounded plug can result in the risk of electrical shock. If the power cord is damaged, have it replaced by an authorized service center.
- NEVER unplug your refrigerator/freezer by pulling on the power cord. Always grip the plug firmly and pull straight from the outlet.
- Plug the power plug into a grounded and compatible socket.

# OPERATION

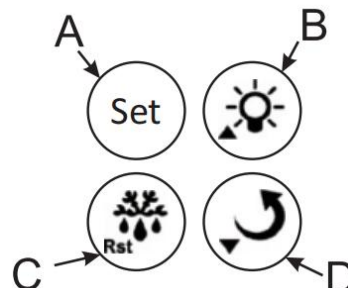
## Before Use

- Remove shipping package, tape, etc, and leave doors open to ventilate for a while.
- The unit is cleaned before shipment. However, clean the compartment interior using warm water then dry it with a soft-cloth after delivery, for the glass parts only use specific products, avoiding the use of water which can leave on the glass residues.
- Allow the unit to run for about 1 hour to cool before placing items in the cooler.
- Ensure all shelves are sitting level and properly secured before loading products.
- To ensure the refrigerant and oil in the cooling system has precipitated properly, keep the appliance in the upright position for several hours before switching it on. If the appliance was tilted horizontally prior to or during delivery, keep it upright for at least 48 hours before switching it on.
- Wait 5 minutes or more before re-starting. Restarting the unit immediately after it has been turned off may cause fuses to blow and activate the circuit-breaker, the compressor may be overloaded, and/or other damage may occur.



## Temperature Adjustment

The electronic controller has been set to the best temperature for cooling beverages and drinks at the lowest temperature of 32-50 Fahrenheit.






Should you want to set the temperature you need, please adopt the following procedure.






### User Parameter Setting



In the status of temperature measuring and controlling press **Set** key for three seconds to enter user menu, it displays the code **St**, then press **Set** key again, display the value of **St**. It could be modified by pressing the key  or  set temperature, and then press **Set** key to return to menu item **St**.

### Enter to the Administrator Menu Setting



When it displays the code **St**, press the key , display the code **Po**, then press **Set** key, display 00, at this time, press  or  to input the password of administrator menu. Press **Set** key again to confirm the password input, and the controller will automatically verify the correctness of password. When it passes, it could select parameter items St, Po, C1, C2,..., Cd3 ( that is, any parameter items both in the administrator menu and user manuals) by pressing the key  or . Or else, only the parameters items St and Po available, others could not be displayed.

When the parameter item is selected, press **Set** key to enter to the setting of the current item, press  or  to modify the value, and then press **Set** key to return to menu. Under the status of parameter setting, press  key or no key operation within 30s, it will exit from parameter setting and automatically save the current parameter value.




### Temperature Viewing

In the status of temperature measuring and controlling, press  to view the current evaporator sensor measured temperature value (note:evaporator sensor is enabled and works properly). Press  to view the current condenser sensor measured temperature value (note: condenser sensor is enabled and works properly).

### Manually Forced Operation

In the status of temperature measuring and controlling, press  for three seconds to force the switch between refrigeration, defrost/defrost delay, defrost dripping. Press  to open or close the light (Only valid when Light/alarm relay is used as light and there is no linkage between light control and door switch.)

### Parameter Recovery

In the status of temperature measuring and controlling, press the key  for 10S, it displays the code **H0** and enter to the operation of one-key recovery. It could continue to select the parameter recovery items by pressing  key, and the selection range is H0—H7, and press  key to execute the parameter recovery and then exit. If there is no parameter recovery operation within 30S, it will automatically exit from the mode without recovery of parameters.

### Drain Tray

- Defrosting is performed automatically and drain water is collected in the drain tray.
- Water in the drain tray is evaporated automatically, In humid environments, there will be a large amount of water in the drain tray, so please throw away drain water once a day.

## Placing Items in the Showcase

This showcase employs a forced circulation of cold air system. If circulation of cold air is obstructed, the items will not be adequately refrigerated.

Pay attention to the following points:

- Do not let items obstruct the cold air inlet and suction outlet.
- Place items so that they do not protrude from the shelves. The gap between the shelves and the door is used for circulation of cold air.
- Place items evenly on all shelves.
- This equipment is intended for the storage and display of non-potentially-hazardous bottled or canned products only.



### Shelf Flexing

Remove product if the shelf is flexing



### Shelf Overhang

Do not let product overhang the shelves



# MAINTENANCE & CLEANING

The smooth operation and life of the equipment are mainly determined by correct and regular maintenance. It is much easier to clean on a regular basis than to have to remove stains once they have built up.

## Cleaning



To prevent any electrical shock hazards or injury by rotating circulation fan, always disconnect the power cord plug from the wall outlet before cleaning.

### Cleaning the Refrigerator Surface

Clean the refrigerator with mild detergent and then dry it with a soft cloth.



Do not use abrasive detergents!

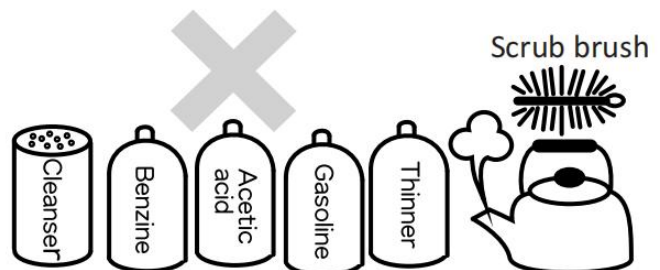
### Cleaning the inside of the refrigerator

- When cleaning the cabinet interior, use a soft and dry cloth.
- If very soiled, wipe with a cloth that has been moistened with a detergent.
- Dry with a soft cloth.

**NOTE: ATTENTION!** Never hose down the appliance or immerse it in water or any other liquid, instead wipe the exterior with a damp cloth. Short-circuit and electrical shock could result.

**ATTENTION!** Never use aggressive cleaning agents or abrasives. Do not use solvents or petrol based cleaning agents. Some cleaning agents may leave harmful residues or cause damage to the appliance. Use a food safe detergent instead.

**ATTENTION!** Do not use any scourer and sharp or pointed objects during cleaning, this may cause damage to the appliance.



- Wash door gaskets on a regular basis. Simply remove the door gasket from the frame of the door, soak it in warm water and soap for thirty (30) minutes, then dry with soft cloth and install.  
**NOTE:** Check door gaskets for proper seal after they are replaced.
- Periodically remove the shelves from the unit, and clean them with a mild soap and warm water. Rinse under tap afterwards to remove any soap residues.  
**NOTE:** Always dry the shelves before placing them back inside the chamber.
- To ensure the safety, perform the following checks after cleaning.
  1. Is the power cord plug firmly inserted into a dedicated wall outlet? Confirm that the plug is not abnormally hot.
  2. Check the power cord for cracks and damage. Should the slightest irregularity be observed, contact the dealer from whom you purchased this unit or our customer's service.

## Maintenance

### Power Failure

- Keep opening and closing of the door to a minimum.
- Avoid placing new items in the cooler as this will raise the temperature inside the compartment.
- ATTENTION! Never let the power cable or power plug get wet or damp.
- Regularly check the power plug and power cable for damage. If either is damaged do not use the appliance. Instead, have it repaired by a certified electrical engineer.

### When not Used for a Long Period

- Remove all items from the compartment and disconnect the power cord plug from the wall outlet. Clean the compartment interior and wipe away all water.
- To prevent mold formation and bad smell, leave the door open to dry the compartment completely.

### Transportation

- Disconnect the power cord plug from the wall outlet.
- When moving the cooler, make sure that the feet do not damage the power cord.
- Do not let the feet hit against floor steps, thresholds, etc.

### Temporary Storage

- Affix a piece of wood, etc. Between the door and main unit to prevent complete closing of the door. Make sure not to store the unused cooler at a location where children play.
- Should a child enter the compartment and the door is closed, the child may not be able to open the door from the inside.

# TROUBLE SHOOTING

Fault	Cause	Resolution
1. Electronic temperature controller dis-function/flicker	<ul style="list-style-type: none"> <li>• Open traverse or bad connection</li> <li>• Have a fault on indicator</li> </ul>	<ul style="list-style-type: none"> <li>• Check wires to ensure a good connection</li> <li>• Change the electronic controller</li> </ul>
2. Unlighted fluorescent light strip	<ul style="list-style-type: none"> <li>• Open traverse or bad connection</li> <li>• Tube fault</li> <li>• Starter fault</li> <li>• Ballast fault</li> </ul>	<ul style="list-style-type: none"> <li>• Check wires to ensure good connection</li> <li>• Change tube</li> <li>• Change starter</li> <li>• Change ballast</li> </ul>
3. Fan is out of work	<ul style="list-style-type: none"> <li>• Open traverse or bad connection</li> <li>• Fan fault</li> <li>• Blades interfered by other parts</li> </ul>	<ul style="list-style-type: none"> <li>• Check wires to ensure good contact</li> <li>• Change fan</li> <li>• Adjust positions of interfered parts</li> </ul>
4. No cooling/poor cooling	<ul style="list-style-type: none"> <li>• Open traverse or bad connection</li> <li>• Insufficient power voltage</li> <li>• Temperature controller at "0"</li> <li>• Compressor not started</li> <li>• Compressor locked (current increases sharply when connecting power, the function of protector)</li> <li>• Power switch fault</li> <li>• Protector fault</li> <li>• Leakage of cooling system</li> <li>• Poor heat dissipation due to tightly closing to wall</li> </ul>	<ul style="list-style-type: none"> <li>• Check wires to ensure good contact</li> <li>• Operate cooler at rated voltage, adjust temperature controller to right point</li> <li>• Change compressor</li> <li>• Turning off the power, shaking the compressor and re-starting on, repeat for 2-3 times. If it still doesn't work, replace the compressor</li> <li>• Change switch</li> <li>• Change protector</li> <li>• Find the point of leakage and weld, vacuum and pour into refrigerant</li> <li>• Move cooler to keep normal heat dissipation.</li> </ul>
5. Non-stop	<ul style="list-style-type: none"> <li>• Deformation and damage of the door seal lead to cooling leakage</li> <li>• Thermostat set to maximum</li> </ul>	<ul style="list-style-type: none"> <li>• Repair (see fault 7) or replace the door seal</li> <li>• Operating cooler at rated voltage, adjust temperature controller to right gear</li> </ul>
6. Abnormal noise	<ul style="list-style-type: none"> <li>• Resonance caused by uneven location</li> <li>• Blades encounter barriers</li> <li>• Loosed screws of condenser or drainage sink</li> </ul>	<ul style="list-style-type: none"> <li>• Locate cooler to ensure its four casters on an even surface</li> <li>• Remove barriers</li> <li>• Tighten screws</li> </ul>
7. Magnetic door gasket is not working	<ul style="list-style-type: none"> <li>• Magnetic door gasket distorted</li> </ul>	<ul style="list-style-type: none"> <li>• Blow sunk position with hair drier until door gasket reshapes</li> </ul>
8. Inclined door	<ul style="list-style-type: none"> <li>• Door hinge screws loosed</li> </ul>	<ul style="list-style-type: none"> <li>• Adjust the position upper and lower door hinges, tighten screw</li> </ul>

# PROCEDURES OF REPLACING PARTS

## Change Starter for Light

### Step 1

Remove back shell, find the faulted starter, press slightly and rotate counterclockwise until the starter can be taken out.

### Step 2

To insert the new starter into the holes, press slightly and rotate clockwise until the starter is fully installed.



## Change the Ballast

### Step 1

Disconnect wires of faulted ballast, remove screws and take out the mounting plate.

### Step 2

Use flat screwdriver to remove crimping clip, and take out all wires.

### Step 3

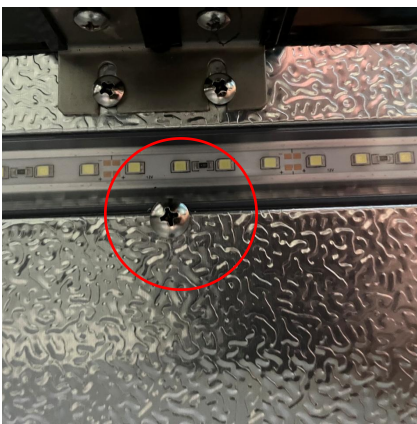
Remove screws, take out the faulted ballast, install a new ballast and insert wires into



### Change Light Tube

**Step 1**

Check if there is a screw in the middle of the light cover and unscrew all screw on this cover.



**Step 2**

Unplug the butt end of the LED light, unscrew the fixing screws at the both ends of the LED light, and take off the light.



**Step 3**

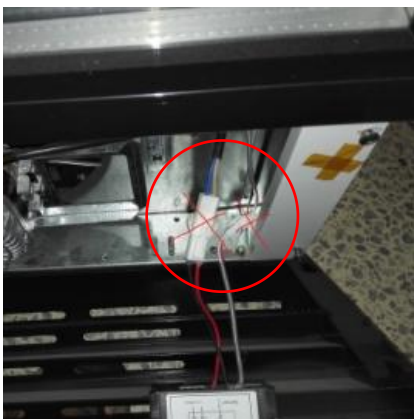
Replace the new LED light, connect the butt end, put the wires in the lamp slot, screws it at both ends of the light strip, take on the cover and screws it.



### Change Temperature Display

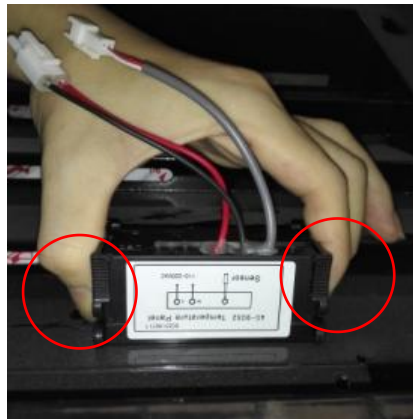
**Step 1**

Loosen screws, take off the shutter, disconnect wires of probe and power wires.



**Step 2**

Press raised jump ring on the both sides of the temperature controller, push backwards and take off the jump ring, then take out the temperature controller from shutter.



**Step 3**

Install new controller on shutter, put on the jump ring, connecting wires of probe and power, install and tighten shutter.





## Change Air Fan

**Step 1**

Remove screws on the fan board, put the whole board down slowly, and disconnect the wire.



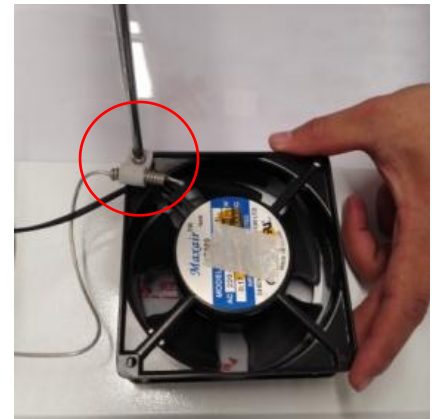
**Step 2**

Remove these 4 screws and take off the fan cover.



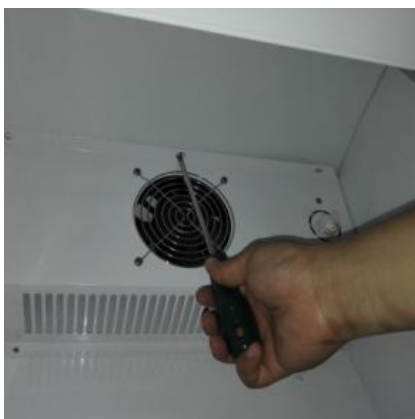
**Step 3**

Remove the screws of the sensor, take off it and the fixed clip.



**Step 5**

Hold up fan board slowly to connect fan wires, collect wire units and tighten fan board.



**Step 4**

Change the new fan motor, adjust the motor, fan board and fan cover to superpose 4 holes, tighten screws and turn over fan board to connect motor wires and fixed the sensor clip.



# THANK YOU

FOR YOUR PURCHASE

## CONTACT US

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