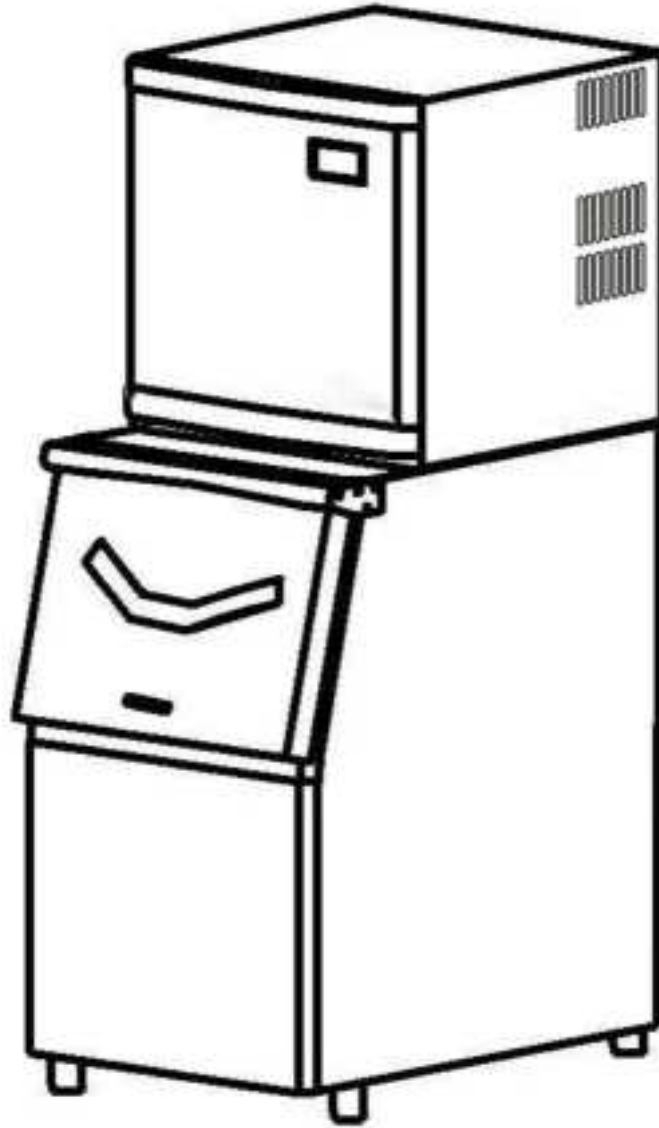


# COMMERCIAL ICE MAKER INSTRUCTION MANUAL



The picture is for reference only. Please be subject to the actual product.

Please read the user manual carefully before using the appliance and keep it for future reference.

MADE IN CHINA

# IMPORTANT SAFETY REGULATIONS

**When using electrical appliances, basic safety precautions should be followed to reduce the risk of fire, electric shock and injury to persons or property. Please read all instructions before operating the machine for the first time.**

**CAUTION:** ICE CAN'T BE STORED IN THE ICE BIN DURING NIGHTTIME, IT'S NOT A FRIDGE, AND ICE WILL BE MELTED TO WATER AND GET OUT OF THE MACHINE.

- **The machine must be installed correctly according to the installation procedure before use.**
- Do not place the power cord on carpet or other heat sources. Also, do not place the power cord in an area where people or objects are moving or immerse the power cord in water. The use of extension cords is not recommended because of the risk of overheating or fire.
- If the power cord is damaged, it must be replaced by the manufacturer, its service department or similarly qualified persons in order to avoid a hazard.
- Be sure to pull out the plug when the machine is no longer in use.
- Please pull out the plug or cut off the main power supply before cleaning or repairing the machine.  
Note: If the machine needs to be repaired, it is strongly recommended to be operated by a professional.
- Never pull the power cord with your hand to pull out the plug, and you must hold the plug with your hand and pull it out in a straight line.
- Do not store explosives, such as combustion supporting spray, in the appliance;  
The appliance is intended for domestic and similar purposes, e.g.:
  - kitchen areas in shops, offices or other workplaces;
  - Guests in farms as well as hotels, motels and residential-type environments;
  - family hotel type environment;
  - Used in food and beverage industry and similar non-retail industries.

**Warning:** Do not use the ice machine outdoors or expose it to rain. The ice machine shall be placed and used indoors free of obstructions, with good ventilation, and away from direct sunlight. A distance of 15 cm at least should be kept from the walls in the front, at left or at right to facilitate heat dissipation.

- Please do not tip or tilt the machine, as this may cause abnormal noise and ice cubes of abnormal size, and more serious may cause water leakage.
- If the machine has just been moved from the outdoors in winter, please turn it on after a period of time when the temperature of the machine rises.
- Do not use electrical appliances in the pantry of the appliance other than the type recommended by the manufacturer.

## IMPORTANCE:

- The machine must be grounded and use a power supply of 120V ~/60Hz.
- Only connect to drinking water sources that comply with local drinking water standards.
- In addition to the methods recommended by the manufacturer, mechanical equipment or other means shall not be used to accelerate the defrosting process, and the refrigeration circuit shall not be damaged.
- The refrigeration system contains high-pressure refrigerant, and the refrigeration system shall not be damaged. Special care must be taken during installation and handling. Installation and maintenance must be carried out by the manufacturer or professionals. Scrap must be disposed of by designated recycling departments.



WARNING:

RISK OF FIRE !

The ice machine has thermal insulation materials, which are combustible materials and must be kept away from fire sources. Maintenance must be carried out by the manufacturer or professionals. Scrap must be disposed of by designated recycling departments.

The refrigerant used is R290 in this appliance. It is a highly flammable refrigerant. The foam blowing agent used is Cyclopentane in this appliance. They are highly flammable.















Thank you for selecting our Commercial Ice Maker. In order to protect your legitimate rights and interests, please pay attention to the following points when you receive the machine.

1. Due to the logistics delivery requirements of this ice machine, we divided the ice machine into two express delivery packages, one for the ice bin and another for the main machine
2. The outer packing of the machine is intact.
3. Machine's model is consistent with your purchase.
4. The appearance of the machine is in good condition.
5. The attached parts are complete.
6. The internal components of the machine are in good condition.

## 1) Accessories List

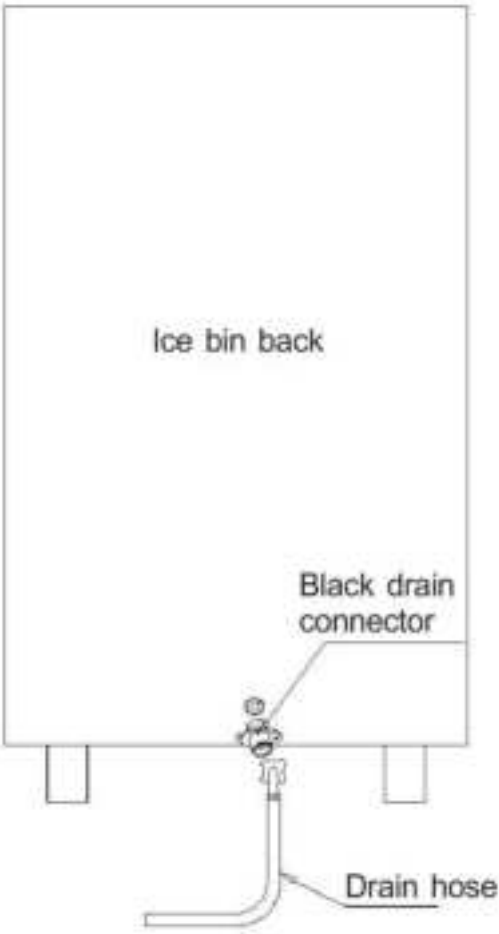
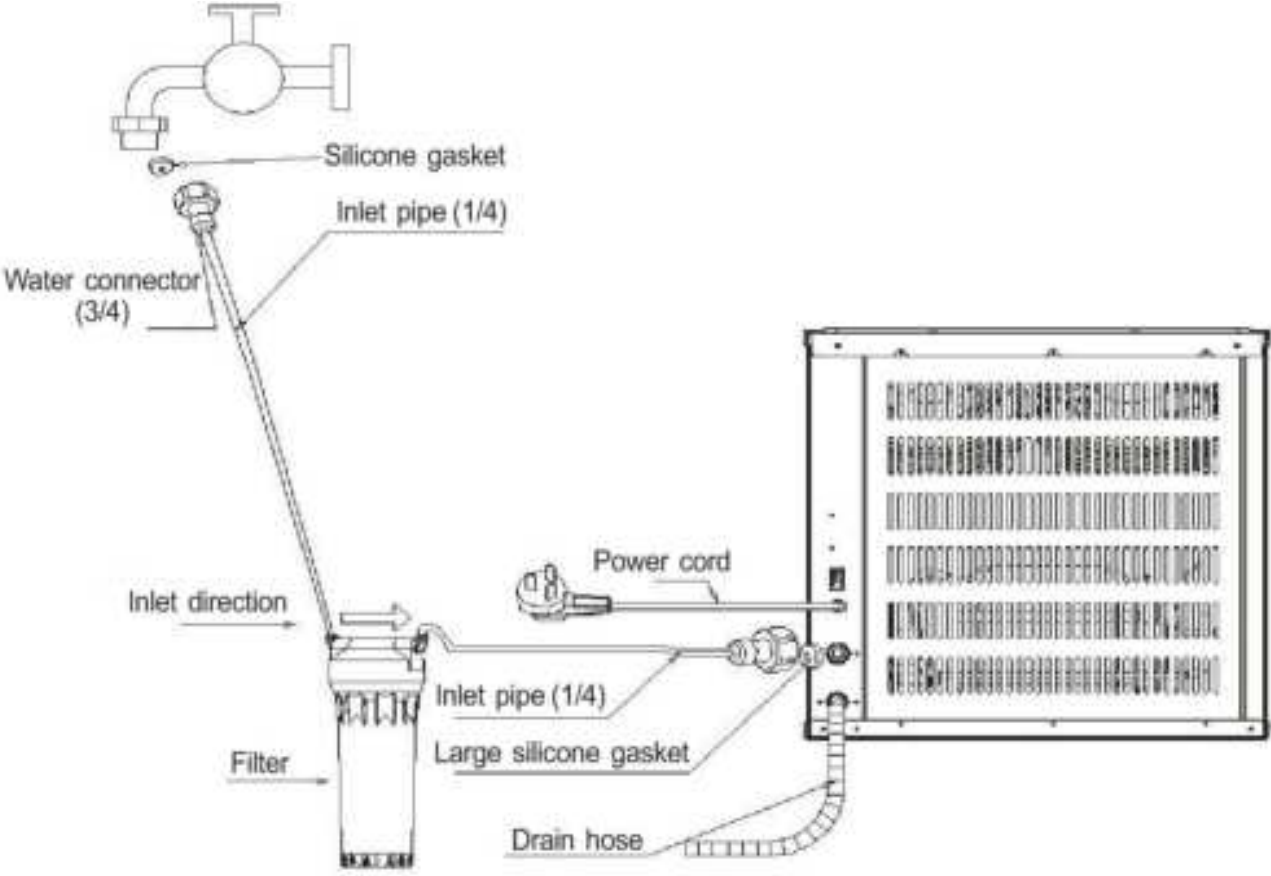
Take the two accessories bags from the ice bin and check whether all the below accessories are included or not.

If any parts are missing, please contact our customer service

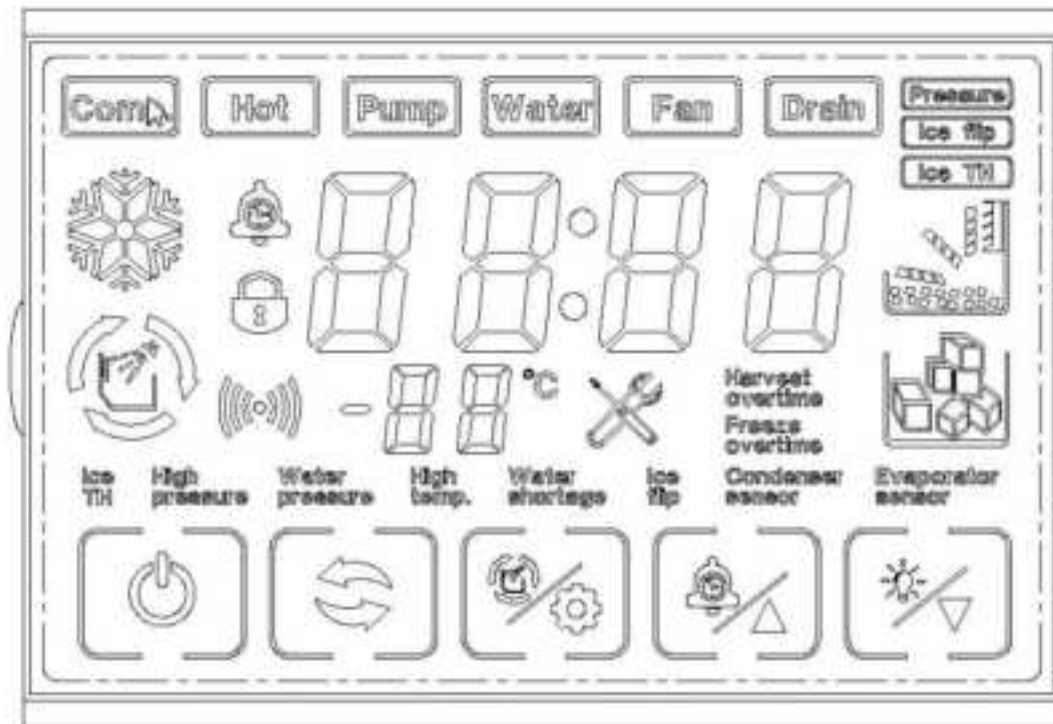
S/N	Name	Picture	PURPOSE	Quantity
1	Manual		Machine operating instructions	1PC
2	Filter		Filter water	1PC
3	Blue clip		Spare blue clip	8PCS
4	Ice scoop		Take ice cubes from ice bin	1PC
5	Black drain connector		Twist this connector into the hole at the back of ice bin before connecting the drain hose	1PC
6	White Drain connector		Connecting water drain hose	2PCS
7	Drain hose		Both of the main machine and the ice bin need to be connected to floor drain before starting the machine	2PCS
8	Wrench		Open the filter	1PC
9	Hanging board		Fix the filter	1PC
10	Large silicone gasket		1pc need to put inside of the connector of the filter, and 2pcs need to put inside of the connector of the drain hose, other 3pcs are spare.	6PCS
11	Silicone gasket		1pc need to put inside of the connector of the filter, the other 1pc is spare.	2PCS
12	Thread seal tape		Sealing if necessary	1PC
13	Screw		ST5*18	6PCS
14	Feet		Screw fee before using the machine	4PCS

Note: Items 5 and 6 had been assembled together before being packaged

2) Installation and Connection



### 3) Control Board



## Operation Instruction

Plug in and turning on the switch on the back of the main machine will make the machine enter into standby mode; The screen will be locked automatically after not operating any button for 60 seconds, hold any button for 3 seconds to unlock the screen. If the machine was powered off because of the abnormal shutdown, the machine will enter into ice-making mode automatically after restoring power.



#### **ON/OFF Button:**

When the unit is off, press this button to turn on the unit, and during the normal ice-making state, hold this button for 2s to turn off the unit at once.

Turn on the machine, ice making and cleaning indicator will turn on, the machine will add water automatically; if it detects that the water is enough, the machine will enter the ice making state after a few seconds.



#### **Mode Button:**

When the mode button is touched in the power-on state, it can be adjusted with 3 modes manually and cycle through the three states of ice making, water pump( drain) and heat valve (forced deicing) in turn.



### Clean and Setting Button:

In the power-on state, click the cleaning button to enter the cleaning state.



### Adjust Ice-Making Time:

In the state of ice making or water inflow, touch “△” or “▽” to adjust the ice making time (scope of ice making time is -5 minutes to +8 minutes)



### Reservation Button:

In the standby mode, click the reservation button to enter the reservation function, and the reservation time can be adjusted by pressing the “△” or “▽” button.

In the standby state, press and hold the setting button for 5 seconds to enter the setting state;  
Click the setting button to set the previous code, and cycle from 0 to 9 in turn. Click “+” or “-” to adjust the last two digits. Please refer to the table below for each code number:

**Table 1: Setting Reference Table**

Previous code	setting items	Setting range	Defaults	Remark	Machine status
0	Timeout deicing time	1-10	6	Set for more than 6 minutes, and turn on the pump in the last 1 minute	efficient
1	Sensitivity of ice thickness detection	1-20 level	10 level	This parameter is only valid in the ice thickness detection mode	Not efficient-
2	Prepared cooling time	10-120s	60 s	Stepping for 10 seconds	efficient
3	Water adding limit time	01-45m'	5 m'		efficient
4	Cleaning setting	00/01	00	“00”Power on without cleaning; “01”Power on with cleaning	efficient
5	With or without drain setting	00/01	00	“00”have draining; “01”do not have draining	efficient
6	drain cycle	00-20	05	Drain water after every 5 times of ice making	efficient
7	High voltage detection	00/01	00	“00”No high voltage detection; “01” With high voltage detection	efficient
8	mode selection	00/01	01	“00”ice thickness mode; “01”timed mode	Not efficient-

9	Water-cooled and air-cooled	00/01	00	“00”air-cooled; “01”water-cooled	Not efficient-
A	High temperature alarm	From 65 to 80°C	70°C	Condensation probe high temperature alarm	efficient
b	Manual cleaning time	From 2 to 30 minutes	10 minutes		efficient
C	Water intake method	00/01	00	“00”running water; “01”water bucket	efficient
d	Drain time	05-60S	20 seconds	Stepping for 5 seconds	efficient

## 1) Status Display:

1. **Power On:** The LCD is fully bright, and the four-digit number displays the version number.
2. **Water Inlet:** Time displays C00, ice making, deicing and full ice are light.
3. **Thermal Valve:** Cleaning, ice making, deicing and full ice are light.
4. **Ice Making:** When the ice making icon is on, the time displayed is the ice making time



5. **Defrost:** After the ice making process, the water pump is turned off, the defrost valve is turned on, allowing the hot gas to enter the evaporator for about 1-2 minutes, the ice cubes slide from the evaporator into the ice bin. When the deicing icon is on, the time displayed is the deicing time.



6. **Ice Full:** In the running state, with the ice bin filled to a certain height, the ice sliding board cannot be rebounded or reset because of the block of the freshly produced ice cubes, the ice maker will stop. When the blocking ice cubes are taken away, the ice maker will turn back to ice making process in a few seconds. When the ice full icon is on, the time displayed is the ice full time.
7. **Fault:** The fault icon is flashing, and the corresponding fault Chinese characters are bright.
8. **Shutdown:** Display OFF.
9. **Appointment Time Setting:** The appointment icon is on, and the time is displayed as the scheduled power-on time.
10. **Reservation Status:** The reservation icon is flashing, showing the countdown of the reservation time.
11. **Setting Status:** The time display digital tube displays the setting parameter number on the far left, which is always on. The last two digits or three digits are parameter values, which are flashing.



## 2) Installation Position

**Note:** first, screw the four feet supplied with the machine to the corresponding positions on the bottom of the machine.

- a) This series of machines shall be placed in a clean place with good air circulation. They shall not be placed in the open air or exposed to sunlight or rain.
- b) The machine cannot be placed near any heat source.
- c) Around this series of machines, the ambient temperature should not be lower than 3°C (37.4°F) and not higher than 40°C (104°F), and an appropriate distance should be kept so as to maximize the ice-making effect and heat dissipation of the machine
- c) The machine shall be placed on a stable level base or the ground. Please calibrate the levels of the front left and the front right directions during the installation.
- d) Please do not place any objects on the top of the ice machine.
- e) The enough space must be remained on the left and the right sides and the back so as to maintain good air intake and facilitate the maintenance.

Location	Spacing (cm)
Side	15
Back	20
Front	50

## 3) Setting

Improper installation may cause injury to people or objects.

Please place the ice machine at a constant location where the power cord can be directly plugged into the socket.

## 4) Electrical Connection

**Warning:** this machine must be grounded

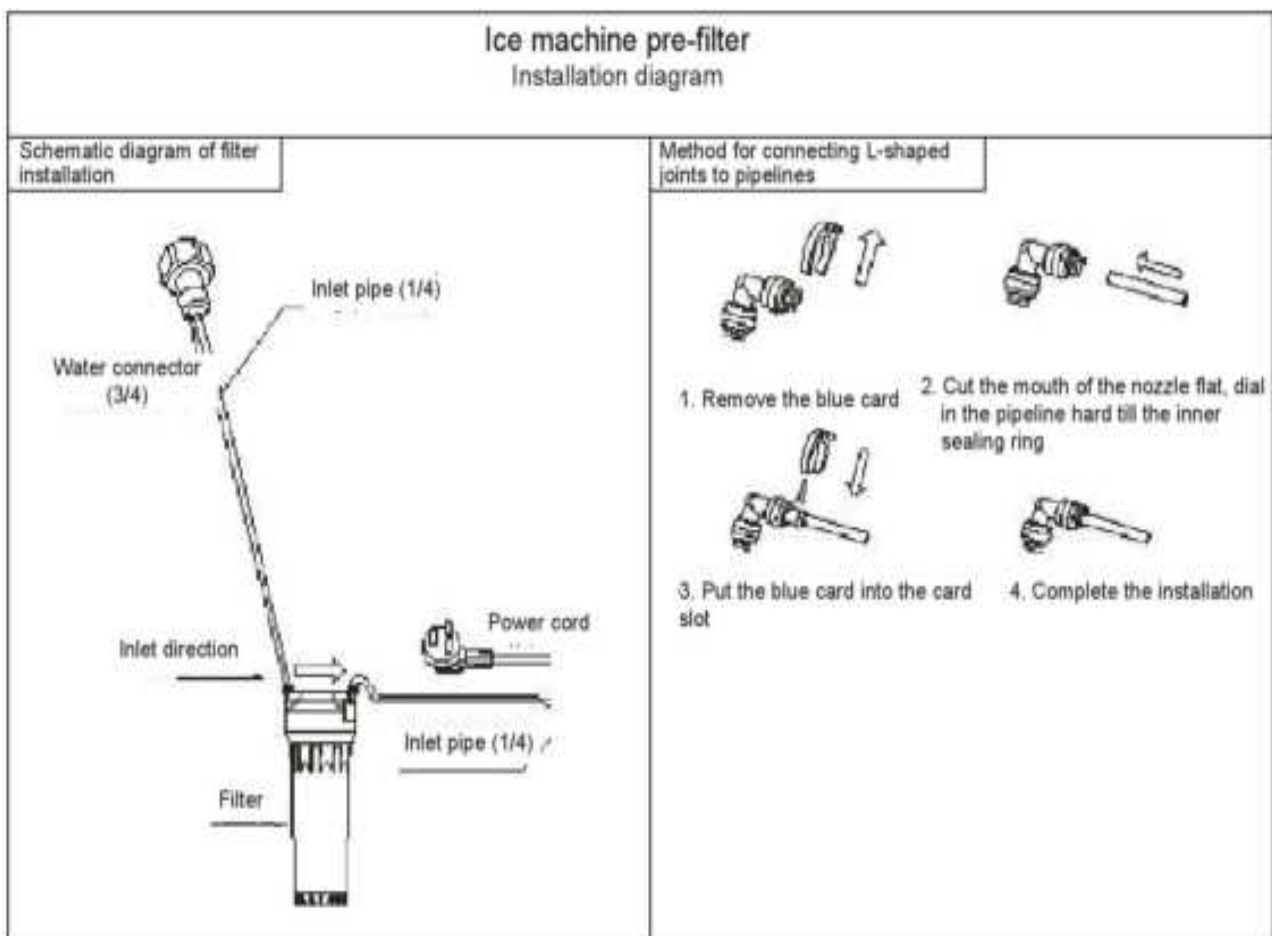
- a) There must be a power supply or socket that can provide 120V ~/60Hz, and the power supply or socket must be reliably grounded.
- b) The fusing current of the electrical box must be greater than 20A. If it needs to be replaced, it must be done by professionals.
- c) If the power cord or plug needs to be replaced, it must be done by a professional after-sales service engineer.
- d) The voltage fluctuation shall not exceed  $\pm 10\%$  of the rated voltage, otherwise a voltage stabilizer shall be installed.

## 5) Water Supply and Drainage Connections

**Warning:** the ice machine should only be connected to a drinking water source and the water source must meet the local drinking water standard.

- The water supplied to the ice machine must be connected with a filter to improve the drinking standard of the water. Please do not connect to the tap water directly. If the ice making fault is caused by the tap water, our company will not be responsible for the maintenance.
  - The water supply pressure should be 0.1-0.4MPa. If the pressure is greater than 0.4MPa, a pressure reducing valve should be connected. Please use the new hose assembly attached to the appliance. The old hose assembly cannot be reused
  - As the water is drained through the dead weight of water, the drain pipe should have sufficient height or drop.
- 1) Remove the plug on the water inlet connector on the back of the machine, insert the water inlet line into the water inlet connector, and clamp the blue card into the slot of the water inlet connector to ensure no water leakage.
  - 2) Connect the other end of the external inlet pipe to the tap.

### Method for Disassembling and Assembling the Plug and the Water Inlet Pipe



## Installation and Connection

**WARNING:** The machine must stand for 24h before power on.

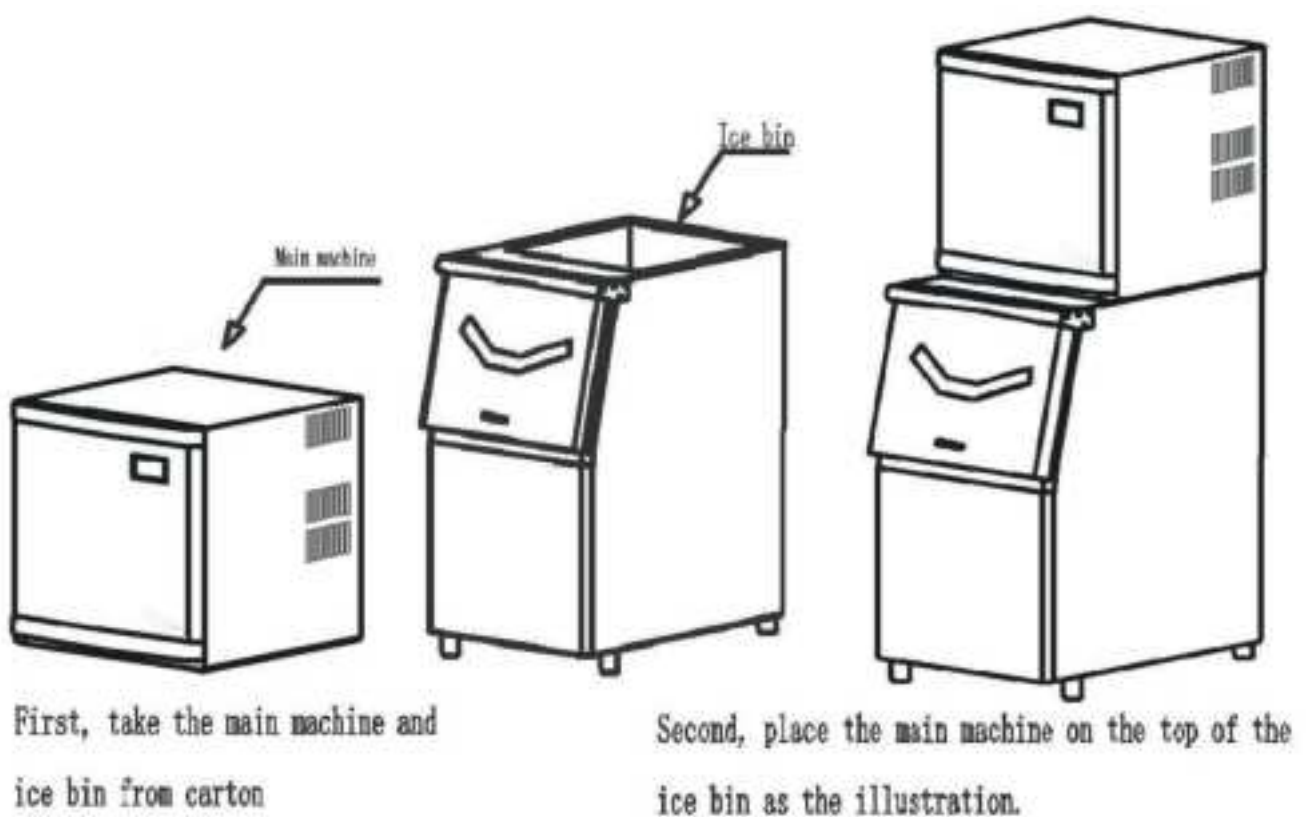
Install the machine according to the manual.

### 1)Unpack the Main Machine and Ice Bin

**Note:** Installation must be carried out by a professional according to the instruction manual.

**Warning:** Please do not use foam and other packaging materials as toys for children and mentally handicapped people, because it may bring them danger.

**Note:** Please remove all packing parts when using, otherwise the machine may not work normally.



## Installation of Pre-filter

### Operation in Struction

**Warning:**

1. This ice machine is used to manufacture and store ice for use, and in order to ensure the hygiene of the ice, please follow the following principles:

- Wash your hands before taking out ice cubes, and use the plastic ice scoop provided in the accessories to take the ice.
- Do not store anything other than ice cubes in the storage bin.
- Clean the storage bin before use. Keep the ice scoop clean and rinse with a neutral detergent. After

removing the ice, close the door to prevent dust from entering.

**2. The use of any electrical appliance should follow the basic guidelines, in particular:**

- The environment with high humidity will increase the risk of a short circuit or electric shock, if in doubt, please cut off the power of the ice machine.
- Please do not directly pull down the power cord to shut down the machine.
- The ice machine cannot be used by children or the elderly without adult supervision.

**1) Operation**

The installation service personnel are usually authorized to start the automatic ice making program. For smooth ice making, the following points need to be confirmed:

- a) Opening of water supply taps;
- b) The lower drain has been connected to the drain of the room;
- c) The ice machine is connected to the power supply;

**2) Prepare the long-term preservation for the ice machine**

- a) Unplug the power plug or cut off the power supply;
- b) Close the water supply tap and remove the water inlet pipe;
- c) Remove all ice and drain the storage bin and water tank;
- d) Wash and dry the inner walls of the storage bin and water tank.

## **Cleaning & Maintenance**

**Warning:** Do not use any alcohol or fume for cleaning/sanitization of the ice machine. It may cause cracks on the plastic parts. Ask a trained service person to check and clean the condenser at least once a year, in order to let the unit work properly. This appliance must be cleaned by use water jet.

**CAUTION:** If the ice machine has been left unused for a long time, before the next use it must be thoroughly cleaned. Follow carefully any instructions provided for cleaning or use of sanitizing solution.

- Do not leave any solution inside the ice machine after cleaning.
- Periodic cleaning and proper maintenance will ensure efficiency, top performance, hygienic, and long life. The maintenance intervals listed are based on normal conditions. You may want to shorten the intervals if you have pets, or there are other special considerations.

### **What Shouldn't Be Done**

Never keep anything in the ice storage bin that is not ice: objects like wine and beer bottles are not only unsanitary but also their labels may slip off and obstruct the drain pipe.

### **Exterior Cleaning**

The door may be cleaned with a mild detergent and warm water. Do not use solvent-based or abrasive cleaners. Use a soft sponge and rinse with clean water. Wipe dry with a soft clean towel to prevent water spotting.

NOTE: Stainless steel models exposed to chlorine gas and moisture, such as in areas with spas or swimming pools, may have some discoloration of stainless steel. Discoloration from chlorine gas is normal.

## **Interior Cleaning**

### **For Ice Storage Bin**

The ice storage bin should be sanitized occasionally. Clean the bin before the ice machine is used for the first time and reused after stopping for an extended period of time. It is usually convenient to sanitize the bin after the outside, the storage bin must be empty.

1. Disconnect power to the unit.
2. Open the door and with a clean cloth, wipe down the interior with a sanitizing solution made of 28g of household bleach or chlorine and 7.5L of hot water.
3. Rinse thoroughly with clear water. The waste water will be drained out through the drain pipe.
4. Reconnect power to the unit.
5. The ice scoop should be washed regularly. Wash it just like any other food container.

**WARNING:** Do not use solvent-based or abrasive cleaners. These may transmit taste to the ice cubes.

## **Cleaning Suggestion**

### **1. DAILY CLEANING**

The ice spoon, door and the water dividing pipe should be cleaned by yourself per each day. At the end of every day, rinse the ice spoon and wipe the both sides of the door with a clean cloth.

### **2. SEMI-MONTHLY CLEANING**

The ice bin, water tank, the ice-full detecting plate and the surface of the evaporator are to be cleaned by yourself semi-monthly according to interior cleaning program.

### **3. QUARTERLY CLEANING**

All the components and surfaces exposed to water or ice cubes, like ice storage bin, water tank, door, evaporator, water pump, water dividing pipe, etc. should be cleaned 3 months according to the following steps:

- a. Disassemble the front panel
- b. Add water and vinegar or lemon juice mix (1:1 ratio) or other similar acid detergent into the water tank.
- c. Press “Clean” icon to make the machine enter self-clean mode, this process takes about 10 minutes. When the Self-clean program is finished, drain off any remaining water.

**NOTE:** It is strongly recommended to clean the unit before initial use or after the unit has not been in use for a long period of time.

# Trouble Shooting

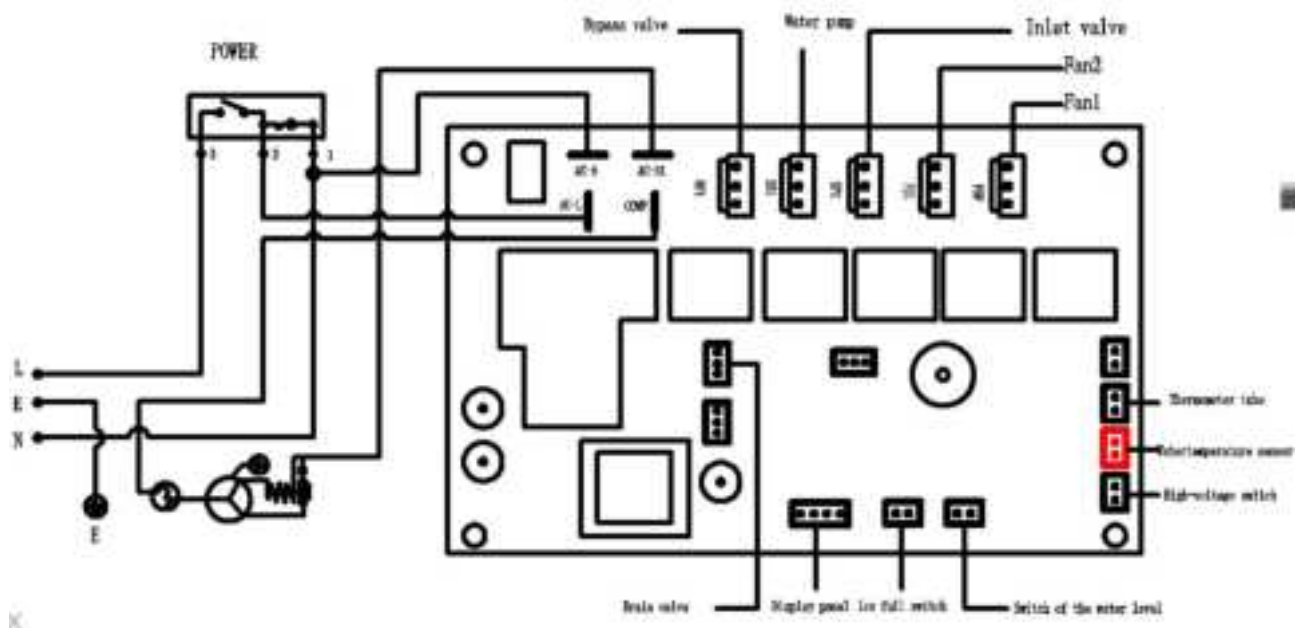
## 1) No Ice Making

Fault phenomenon	Inspection items	Possible causes	Solutions
Ice machine is not running	Power cord	Not plugged in the socket	Plugged in the socket
	Control panel fuse	Fused or damaged	Check and replace.
	Storage bin	The ice is full, and the ice cubes press the evaporator to swing the blades	Remove ice cubes or remove ice from evaporator swing vanes
	Power supply	If there is no such situation, the proximity switch is faulty	Replace the proximity switch
		No power or low voltage	Contact the power supply department
	Water supply tap	No water or low water pressure	Increase water pressure
	Inlet valve	The filter screen is blocked or the inlet valve is broken	Clean the filter or replace the inlet valve
The compressor does not run or stops suddenly	Power supply	1. The voltage is too low.	Contact the power supply department
	Air inlet	The air inlet is blocked	Leave a space of at least 15 cm on the left, right and rear sides
	Condenser	Excessive ash deposit	Clean condenser
	Cooling system	Refrigeration system leakage	Contact after-sales service personnel
	Compressor	The connecting wire is broken or falls off	Contact after-sales service personnel
No water in water tank	Floating ball	Floating ball is stuck or clogged	Replace or clean the floating ball
Water leakage	Inlet	Loose or improperly installed	Tighten or reinstall
	Inlet or drain	Water leakage due to rupture	Change

## 2) Low Ice Production

Fault phenomenon	Inspection items	Possible causes	Solutions
Ice making time is too long	Water pressure of water supply	The water pressure is too low, and the water supply time is too long each time	Increase water pressure
	Water temperature	Water temperature too high	Lower water temperature
	Ambient temperature	The ambient temperature is too high or too low	Place at an appropriate temperature
	Refrigerant	The refrigerant leaks	Contact after-sales service personnel
Little or thin ice	Condenser	Excessive dust accumulation in the condenser leads to poor air intake, high condensation temperature, and long ice making time	Clean condenser
	Filter screen	The filter screen is blocked, causing poor water flow	Clean or replace the filter screen
	Water pump	Poor water flow due to water pump failure	Replace water pump
	Ambient temperature	Ambient temperature too high	Place at a lower temperature
	Air inlet	Poor air intake leads to high condensation temperature and long ice making time	Leave a space of at least 15 cm on the left, right and rear sides

## Circuit Diagram



## **After Sale Service**

1. If your product breaks down or has any problems after purchase, please contact us.
2. Regarding any product problems or issues you encounter, our customer service will guide you through the entire service process. We reserves the right to re-inspect damaged or returned products.