

BIM25

Commercial Ice Maker User Manual for Installation and Maintenance



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Important Information

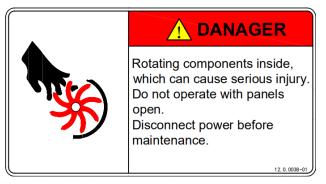
Please pay attention to the following warning labels on the ice maker



The label indicates a hazardous voltage. There is a risk of electric shock.



The label indicates a hazardous voltage. There is a risk of electric shock.



The label indicates rotating components inside. There is a risk of serious mechanical injury.

Cyclopentane Combustible Material Cyclopentane

The label indicates a flammable foaming agent "Cyclopentane" used. There is a risk of fire.



R290

The label indicates a flammable refrigerant "R290" used. There is a risk of fire.

(Note: Some models use R404a refrigerant, the safety grade of this refrigerant is A1, which belongs to the highest level, and there will be no special remarks later.)

Warning: The ice making water inlet of ice maker can only be connected with drinking water, and groundwater or other non-drinking water sources cannot be used.

Instruction of symbols in this Manual

Alert sign: indicating the item requiring particular attention.

Warning sign: special attention is required, and operation is prohibited.

Warning and safety instruction

OThis product cannot be used in an outdoor environment.

⚠This ice machine is not intended for use by children, and those with physical weakness, slow response, or mental disorders.

- ★ The installation, repair or maintenance of this ice machine must be carried out by professional and qualified personnel, or electric shock, fire, personal injury may be caused by incorrect operation.
- ★ After the ice machine is delivered, please keep the machine still upright for more than 24 hours, to have the lubricant be fully precipitated before startup, otherwise the compressor may be damaged.
- When the power cord of the ice maker is damaged, in order to avoid electric shock, fire or personal injury, it must be replaced by the manufacturer or professional and qualified personnel.
- ★ The water pipe assembly in the accessory box of the ice maker must be used. In order to ensure food safety, the water pipe assembly removed from the old machine should not be used.
- When handling, keep the cabinet upright, with the inclination not exceeding 45 degrees. Do not invert the machine or lay it horizontally.
- This ice machine should not be placed in wet or easily splashed areas.
- The grounding of this ice machine cannot be connected to gas pipe, water pipe, telephone line or lightning rods, etc.
- There are rotating components in this ice machine. Do not insert slim objects into ventilation or exhaust ports, or serious mechanical injury may occur.
- → Do not store volatile or flammable

- substances in this ice machine, or it may result in explosion or fire.
- → Do not store any sundries or freeze any food in the storage bin. Keep the ice scoop clean.
- The ice machine must be placed on the floor sufficiently to support its weight. Insufficient base may cause the equipment fall over and cause injury.
- There should be sufficient ventilation space around the ice machine. Keep good ventilation.
- Only the power supply specified on the machine nameplate can be used with this ice machine.
- + This ice machine cannot be connected to hot water.
- The socket for this ice maker must be reliably grounded and with leakage protection.
- ★ The ice machine must be disconnected from power before manual cleaning, repairing and maintenance.
- Before cleaning, repairing and maintenance, the remaining ice in the ice bin should be removed from the ice machine to avoid contamination to ice.
- Do not splash water directly onto the surface of the ice machine during the cleaning process; otherwise, it may cause short circuit, leakage or other faults.
- → Flammable foaming agent is used during the foaming process. The ice maker should be disposed of and recycled by qualified personnel and institutions.
- ★ The ice machine should be properly managed to ensure that children will not play with the machine.

When the ice machine malfunctions, turn off the power and contact professional personnel for repairing.



R290 For the ice maker with flammable refrigerant R290:

- DANGER RISK OF FIRE OR EXPLOSION. FLAMMABLE REFRIGERANT USED. MUST BE ENOUGH VENTILATION SPACE AROUND THE ICE MAKER TO KEEP THE VENTILATION SMOOTH.
- DANGER RISK OF FIRE OR EXPLOSION. FLAMMABLE REFRIGERANT USED. DO NOT USE MECHANICAL DEVICES TO DEFROST REFRIGERATOR. DO NOT PUNCTURE REFRIGERANT TUBING.
- DANGER RISK OF FIRE OR EXPLOSION. FLAMMABLE REFRIGERANT USED. TO BE REPAIRED ONLY BY TRAINED SERVICE PERSONNEL. DO NOT PUNCTURE REFRIGERANT TUBING.

- DANGER RISK OF FIRE OR EXPLOSION. FLAMMABLE REFRIGERANT USED.DO NOT USE ANY ELECTRICAL APPLIANCES IN THE ICE STORAGE BIN OF THE ICE MAKER.
- CAUTION 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.
- CAUTION RISK OF FIRE OR EXPLOSION. DISPOSE OF PROPERLY IN ACCORDANCE WITH FEDERAL OR LOCAL REGULATIONS. FLAMMABLE REFRIGERANT USED.
- CAUTION RISK OF FIRE OR EXPLOSION DUE TO PUNCTURE OF REFRIGERANT TUBING; FOLLOW HANDLING INSTRUCTIONS CAREFULLY. FLAMMABLE REFRIGERANT USED.

General

The ice machine is fully automatic. With proper installation and connection to potable water and power source, the ice making will start properly. When the ice cubes fill up the storage bin, the machine will automatically stop. The ice machine is generally used in the following and similar occasions:

- The kitchen area of a store, office or other workplace.
- · Farm, hotel, car hotel and restaurant.
- Catering and similar non-retail occasions.
- This ice machine is not intended for use at home.

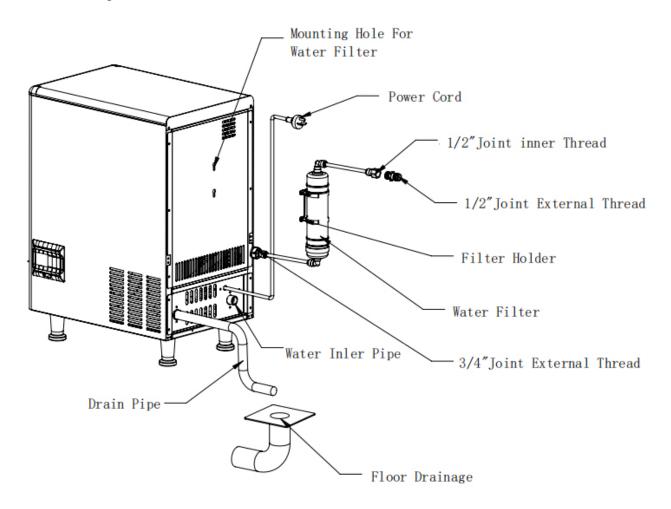
Installation

Location for Installation
The ice machine should be installed in a proper location meeting the following conditions:

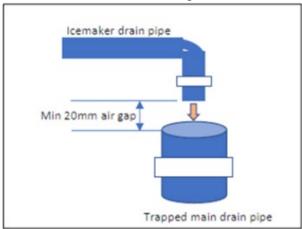
- Indoor, not more than 2,000 meters above sea level.
- Ambient temperature: 12-32°C.
- Power supply: the rated voltage indicated on the machine nameplate ±6%.
- Water source: potable water, with water pressure from 0.13MPa to 0.55MPa; water temperature: 5-35°C.
- The ice machine should be kept away from heat sources and should be strictly forbidden to use at extremely high

- temperature or low temperature environment and should avoid direct sunlight.
- There should be sufficient ventilation space around the ice machine and keep good ventilation.
- The ice machine must be placed on a floor sufficient to support its weight.
- Socket for the ice maker must be reliably grounded and with leakage protection.
- Proper floor drainage must be provided near the installation location of the ice machine.

Schematic Diagram of Installation



Drain connection must incorporate an air gap with no contact with the main drain connection to prevent ice contamination in the storage bin.



Installation Steps

- 1. Check if the ice machine is in good condition and the accessories are complete; check the machine model and the machine nameplate.
- 2. Open the bin door and remove the packaging tape from the ice thickness sensor and the flap. They are used to avoid possible damage during transportation only.
- 3. Clean the ice storage bin and the food area inside with a sponge soaked in warm water and soda. Then wash and dry it with potable water.
- 4. Place the ice machine in the operation area; ensure that the machine is placed on a leveled floor. So as to ensure the water flows evenly on the evaporator.
- 5. The compressor chamber is located below the front of ice bin. The compressor and condenser are installed in it. It requires good ventilation. Therefore, the front and rear of the ice maker must have ventilation space of more than 20-30 cm.
- 6. The bottom of the ice machine is equipped with adjustable legs for level adjustment and floor cleaning.
- 7. Connect the machine's inlet water filter and water pipe referring to the schematic diagram of installation; if the installation site is already equipped with a drinking water system, the water filter may not be installed.

Note: the filter flow direction should

Startup and Operation

- 1. Before you start up the machine, please check and confirm:
- That the packaging tape inside the ice machine has been removed.
- The accessories or items in the ice bin have been taken out.
- The ice machine has been adjusted to a leveled state.
- The water pipe has been connected and the water valve is open.
- The plug has been connected to the power supply and the power switch is off.
- The ambient temperature, water temperature, and pressure of the water supply meet the above requirements.
- 2. Start up: turn on the power switch. After power-on, the machine begins to make ice automatically.
- 3. For normal operation, please confirm:
- ✓ There is water in the water trough and no

be correctly installed as per the direction marker on the filter head cover or the filter body.

Note: The water filter (not supplied) will need replacing periodically. Generally, it needs to be replaced every 3 months to 6 months.

- 8. Connect the machine to the water supply using the 3/4" inlet pipe supplied with the machine. It is recommended to install a water valve (not supplied with this machine) on the water supply line.
- 9. Connect the drainpipe to the drain connection. In order to meet a good drain, it is recommended that the drainpipe should have a difference of level more than 3cm per meter; and confirm that the drainpipe is not blocked. It is recommended that the drainpipe be connected to an open drainage port.
- 10. Any joint in the drainpipe must not be higher than the machine drainage port; any joint in the drainpipe cannot be higher than the previous joint.
- 11. Confirm the power requirements stated in the machine nameplate; ensure that the power supply meets the requirements.
- 12. A circuit breaker or switch with leakage protector and reliably grounding is required.
- 13. Turn off the switch on the power line and connect the machine to the power source.

overflow occurs.

- ✓ The pump is working properly, and water is flowing evenly on the evaporator.
- ✓ The compressor is running normally, the temperature of the evaporator and the ice making water is gradually decreasing.
- ✓ The fan is running normally, and there is stable air flow in the inlet and outlet of the ice machine.
- ✓ The ice machine has no abnormal noise.
- ✓ The ice machine has no abnormal vibration.
- ✓ It takes about 10 to 20 minutes to make one batch of ice, depending on the ambient temperature and the temperature of the water. The higher the temperature is, the longer the ice making will take.
- Ice cubes can be properly defrosted from the machine.

Operation Instruction

 Startup: after proper installation, connect the water source and turn on the power supply, the machine will start working.
 Please confirm that the machine is operating normally when you turn it on for the first time.

Note: In case of thunderstorm or not in use for a long time, please disconnect the power and water source!

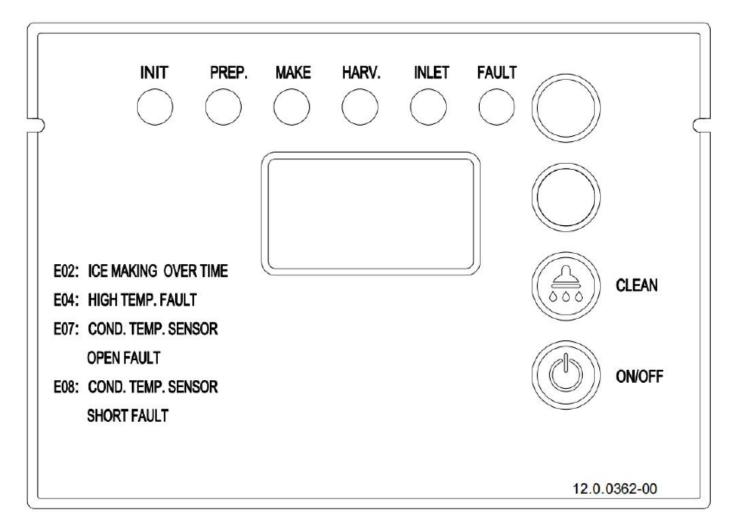
- Self-check: with power on for the first time, the ice maker will do self-check and pump out remaining water.
- Preparing: after the ice machine is energized, the inlet valve opens, and the inlet water will flow in until it reaches the set level; then the ice maker will defrost one time.
- Ice making: after pre-cooling for 30 seconds, the water pump starts, the water flows through the evaporator smoothly and evenly, the ice cubes are gradually formed in the ice cube tray.
- Ice Harvest: after the ice making process, the water pump is turned off,

the defrosting valve is turned on, and after the hot gas enters into the evaporator for about 1-2 minutes, the ice cubes slide from the evaporator into the storage bin.

Warning: Do not put your hand into the ice storage bin during the ice-falling process to prevent the ice from hitting your hand!

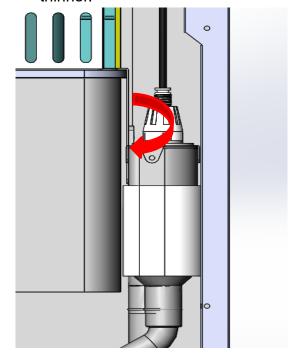
- **Shutdown:** The ice maker will stop working when you click the "on/off" button on the panel during running process.
- Bin full stop: in the running state, with the storage bin filled to a certain height, the ice sliding board cannot be rebounded or reset because of the block of the freshly produced ice cubes, the ice maker will stop in 30 seconds.
- Repeat ice-making: when the ice cubes on the ice sliding board are taken away, the ice maker will back to ice making process in a few seconds.

Instruction of Control Panel



- 1. LED Display:
- Self-check: Display "ini" code.
- Preparing: Counting seconds positively.
- Ice making: Counting seconds positively prior the water reaching 0°C, after the water temperature reaches 0°C, Evaporator starts to freeze. and the digital tube starts counting down. When the countdown reaches 0, the ice making cycle ends.
- Ice Harvest: Counting seconds positively.
- Clean: Display "CLE" during cleaning and sterilizing; Display "rin" during rinsing.
- LED Lamps: Displays the status of the ice machine, self-test, preparation, ice making, ice falling, water inflow (flashing display indicates water inflow, low water level goes out, high water level stays on), and faults.
- 3. **Ice thickness adjustment**: During the ice making process, if you are not satisfied with the ice thickness, you can open the back panel, find the water level sensor (water floating ball), and adjust its height by turning it. Turn it down

counterclockwise to make the ice thicker and turn it up clockwise to make ice thinner.



Turn clockwise: Ice thinner

Turn counterclockwise: Ice thicker

Note: Each time the water floating ball is adjusted, the ice making time will be extended or shortened.

4. Cleaning: During the normal operation, hold the cleaning button for 3 seconds to enter the cleaning process. During the entire cleaning process, cleaning agents and disinfectants need to be put into the water trough. When the cleaning process is finished, the ice maker will go to the ice making process.

Note: The first 5 plates of ice that start making ice after cleaning are discarded and cannot be eaten.

- 5. Switch: When the device is powered, click the "Switch" button to switch OFF/ON the device.
- 6. Voice function (only for machines with voice function): The machine with voice announcement prompts will provide voice prompts for related operations.
- 7. Please open and close the storage bin door gently. Do not slam the door. After taking the ice cubes, please close the

8. If the ice maker is not in use for a long time, it should be energized and run for 2 to 4 hours every 2 months.

Other special protection - shutdown

- If the ice machine has not detected ice cube falling off in three cycles, it will shut down for safety protection. The ice maker needs to be checked.
- The ice machine detects that the ambient temperature is too high and will stop for safety protection.
- If the water-cooled ice machine detects an abnormity in water supply, it will stop for safety protection.
- The fault code and its comments are displayed as follows:

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Code	Comments	Machine action	
E02		Protective shutdown	
E04	High temperature	Protective shutdown	
	Condensation	Not stop	
E07	sensor open	Error LED light on	
	circuit	every 5s	
	Condensation	Not stop	
E08	sensor short	Error LED light on	
	circuit	every 5s	

Maintenance

⚠Note: Maintenance must be done by qualified professional personnel.

Warning: Before maintenance or manual cleaning, be sure to cut off the water source and power supply. Exterior cleaning

- Frequently clean the environment around the ice machine to keep it clean. Do not block the vents.
- The outer enclosure should be cleaned with a mild detergent and then wiped clean. If necessary, use commercial stainless-steel cleaners and polishes.

⚠Note: Stainless steel may rust without proper maintenance.

Inlet water filter

 The filter element should be inspected regularly. It is recommended to replace the filter element every 3 to every 6 months.

Interior cleaning

 The inside of the ice storage bin can be washed directly with water pipes.

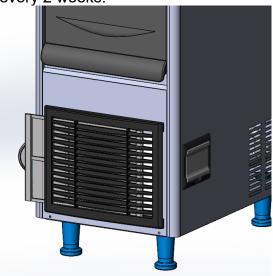
⚠Note: Check and confirm the water pressure lower than the maximum allowed pressure. Do not flush the part above the water pump or the evaporator directly for water protection.

Condenser

* For the air-cooled ice maker, the condenser should be cleaned every three weeks. Use a soft brush or a vacuum cleaner with a brush to brush it up and down along the fin direction, to avoid damage to the fins and

further affecting the cooling effect.

 The condenser filter should be cleaned every 2 weeks.



⚠Note: Be careful when doing the condenser cleaning as the edges of the fins are sharp.

Water pipe

In order to ensure food safety, the water pipe of the ice machine should be cleaned regularly.

Wintering

 Turn off the water and power supply, drain the residual water from the water trough, inlet pipe and drainpipe.

The maintenance of the ice machine is not covered by the manufacturer's warranty!

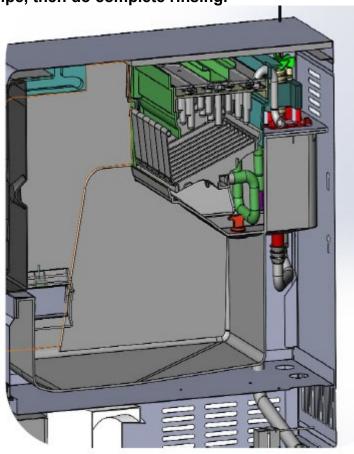
Clean Function

igtriangleNote: Please empty the bin of ice in advance.

 $oldsymbol{\triangle}$ Note: Please clean and sterilize the bin and complete rinsing.

⚠Note: Please clean and sterilize the ice sliding board, water distribution pipe, water supply

pipe, then do complete rinsing.



- 1) Turn on the machine, make sure the ice cubes have been taken out of the ice bucket, press and hold the "Clean" button for 3 seconds, and pull out the silicone plug of the sink down for drainage, drain the water in the sink and plug it in. (At this time, the digital tube flashes "CLE"
- 2) Pour the configured cleaning (or disinfection) solution equivalent to the capacity of the sink into the sink; Short press the "Clean" button, the machine will automatically enter the cleaning mode, and the cycle cleaning will be 15 minutes (at this time, the digital tube will display "CLE"
- 3) After the automatic cleaning is completed, the machine will automatically enter the rinsing mode, the water inlet valve will often enter the water, and the water will be continuously rinsed for 25 minutes (at this time, the digital tube will display "rin"), during which the ice tray can be sprayed (or disinfected) with a watering can
 - 4) After the cleaning (or disinfection) is completed, it will automatically enter the ice-making state (press the "switch" button, and then pull out the sink silicone plug downward, so that the undrained water in the sink can be discharged. After draining, plug in the silicone plug and press the "switch" button to enter the normal ice-making state.
- 5) The cleaning and disinfection steps are identical, only the cleaning medium is different.
- 6) In order to ensure food hygiene, please discard the first 5 plates of ice.
- 7) During the cleaning process, long press the "Switch" button, it will forcibly exit the cleaning process and enter the standby state.

Service Call

If the ice machine works abnormally, please confirm below before making a service call:

- 1. Check the water supply
- ✓ whether there is water in the water trough.
- ✓ whether the water pressure for the ice machine is 0.13MPa to 0.55MPa; the water temperature is 5-35 °C.
- ✓ whether the water valve is open.
- ✓ whether there is no water leakage.
- 2. Check the power
- ✓ whether the indicator on the display panel ON
- ✓ whether the panel display does not display the OFF standby state.
- ✓ If the LED on the display panel is not ON, check whether the plug and socket are normal, and whether the power supply switch is ON.
- 3. Check nameplate and serial number.
- ✓ Check data plate located on the side or back of the machine & record the model & serial no.

Note: If the machine fails due to the user's faults, such as no supply of water, electricity or environmental factors, rather than the fault of the ice maker, the door-to-door service will be charged.

Common Faults and Troubleshooting

Fault	Potential cause	Troubleshooting	
Not working	Power switch not turned on	Turn on the power switch	
Indicator is OFF	Plug is loose	Check plug and socket	
Shutdown every 3 minutes after startup;	The ambient temperature is too high	Normal working temperature range of 5-40 °C	
the display shows E04	Condenser is dirty and	Clean the condenser	
high temperature	blocked	Check and correct high pressure	
The display shows E06	High pressure switch wires	switch wires	
high pressure	fallen off	Check and correct the fan	
protection	Fan does not start		
Ice defrost abnormal	Ambient temperature too low Defrost valve does not start	Normal working temperature range of 5-40 °C	
	normally	Check and correct the defrosting valve	
	Ice thickness too thin or too	Check and correct ice thickness	
	thick	setting	
Poor transparency of	Ice thickness too thin	Check and correct ice thickness	
ice cubes; ice cubes	Water pressure too low	setting	
too thin or incomplete	Water temperature too high Inlet water valve does not	Check that the water supply pressure is 0.13MPa to 0.55MPa	
	work	Water temperature of 5-35 °C	
	Inlet water valve is dirty and	Check and correct the inlet water valve	
	blocked	Check whether water leaks and correct	
	Water leaking	Check and correct the inlet water filter	
	Inlet water filter has not been	Official and correct the linet water filter	
	replaced for a long time		
Too slow in ice making	The condenser or air filter is	Clean the condenser and filter screen	
les siew in les making	dirty	Normal working temperature range of	
	High ambient temperature	5-40 °C	
	Poor ventilation	Check the environment around the ice	

	Water temperature is too high	machine Check the water supply temperature of 5-35 °C
Too much noise	The ice machine is not placed in a leveled foundation or the ice maker is not leveled.	Level the ice machine

Warranty

The following circumstances are not covered by the warranty:

- Normal cleaning or maintenance.
- Unauthorized modification of the ice machine or use of non-native parts.
- Damage caused by improper power supply, water supply and drainage.
- Damage caused by installing, cleaning or maintaining the ice machine not in accordance with the instructions of this manual.
- Artificial damage

Note: Warranty service should be provided by an agent or repair organization approved by the manufacturer.



Caution!

Consult repair manual/owner's guide before attempting to install or service this product. All safety precautions must be followed. Dispose of properly in accordance with federal or local regulations. Risk of fire or explosion due to puncture of refrigerant tubing. Follow handling instructions carefully.

Danger!

Risk of fire or explosion. Flammable refrigerant used. To be repaired only by trained service personnel. Do not use mechanical devices to defrost refrigerator. Do not puncture refrigerant tubing.



Disposal

EU regulations require refrigeration product to be disposed of by specialist companies who remove or recycle all glasses,

metal and plastic components.

Consult your local waste collection authority regarding disposal of your appliance. Local authorities are not obliged to

dispose of commercial refrigeration equipment but may be able to offer advice on how to dispose of the equipment locally.

All packaging materials should be disposed of in an environmentally friendly way.

The cardboard may be used as scrap paper. The protective foil and the foam cushions are CFD-free.

Do not allow children to play with the packaging and destroy plastic gags safely.



Environmental protection

Discarded electric appliances are recyclable and should not be discarded in the domestic waste! Please actively support us in conserving resources and protecting the environment by returning this appliance to the collection centres (if available).

Compliance

Parts have undergone strict product testing in order to comply with regulatory standards and specification set by

international, independent, and federal authorities.

Products have been approved to carry the following symbol:



Note: this Manual is subject to any technical change without further notice. Please refer to the nameplate on the product for exact information.