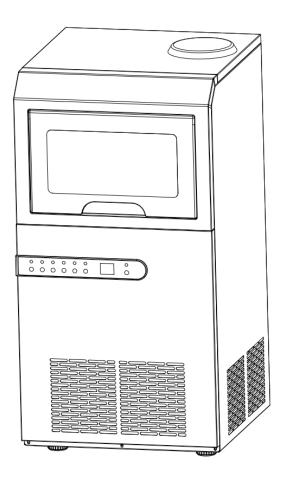
Commercial Ice Maker Installation and Operation manual



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Model: LS-IM003

Thank you for purchasing our ice maker!

Glad to provide you with the best quality products and complete after-sales service.

To ensure your satisfactory use and proper cleaning & maintenance of this appliance, please read all following instructions carefully before operating, and keep it for future use.

·General Information

1. The production of this appliance uses advanced production technology and skilled processes, as well as the strict quality inspection, guarantees the excellent performance of the appliance.

2. The core component of the ice maker "compressor" we use well-known brand product, coupled with a reasonable configured refrigeration system, it makes refrigerant cooling more reliable and lower energy consumption.

3. The metal spray encloser is elegant and fashion, corrosion-resistant and easy to

clean.

4. The automatic microcomputer control system can make the ice making and harvest process automatically. It has fault detection function, which makes it more convenient to use and maintain.

Receiving and inspection

Thank you for choosing our automatic ice maker, to protect your legitimate rights, please note the following when sign for the receiving:

1. Whether the appliance outer package is in good condition; 2. Whether the body of the appliance is in good condition; 3. Whether the accessories attached are completed.

During the transportation of the appliance, the refrigerant inside the compressor is possible not injected into the refrigeration pipe due to the dumps and handling. Once the power resource is connected, the compressor may be damaged in a short time. Therefore, after its receiving, it is strongly suggested the customers to allow the appliance correctly located and "stay for 24 hours", to allow the refrigerant return to the compressor, and then to install and use it.

Warning pictograms and operating safety instructions



Indicates a pronhibited action that may cause injury or serious injury



Cautions that may cause personal injury or article damge



Indicates combustioble materrial is in used , beware of fire



Hazardous area for high voltage electricity, beware of high voltage electricity

Precautions for safe operation

Just after receiving the appliance, allow 24 hours for the Lubricating oil of the compresser fluid to settle before starting to use, otherwise the compressor will be easily damaged.

ODo not use the ice maker outdoor. It may cause leakage or electric shock after the ice maker is wet by rain.

 \oslash Do not disassemble, repair or modify the ice maker without permission. Fire hazard or personal injury may be caused by work errors without professors or professional guidance.

 \oslash Do not directly spray water on the ice maker, it may cause electric shock or short circuit.

 \oslash Do not locate the ice maker in a humid place or a place prone to splashing water, to avoid the damage to the insulating material, so to prevent leakage or electric shock.

O not earth the ice maker through a gas pipe, a water main, a telephone line, or a lightning rod.

 \checkmark Do not insert metallic materials such as wires into the air vents, passage or exhaust vents of the ice maker, to avoid electric shock or personal injury due to accidental movement of active parts.

O Do not put volatile or flammable substances into the ice maker. Storage of such substances may cause explosion or fire hazard.

A The ice maker should be repaired or installed by professional technicians or under their guidance.

A Please locate the ice maker on a solid ground. To avoid a hazard due to tilting of the appliance.

 \triangle Please use a power supply that is specified on the ice maker's nameplate.

Disconnect the main plug from the supply socket when the ice maker gets failures. Continued abnormal operation may cause electric shock or fire hazard.

Please remove the dust from the supply socket before plugging the power plug into it, to avoid fire hazard.

 \bigtriangleup Keep the ice maker free of obstructions and keep the ventilation open.

Do not store combustion sprays, volatile or flammable substances in the ice maker. Storage of such substances may cause an explosion or fire hazard.

Do not use the ice maker when handling toxic or hazardous materials or radioactive materials, as it may harm health and damage the environment.

Disconnect from the main socket before cleaning, maintaining or servicing the appliance. To prevent electric shock or personal injury.

Do not use electrical appliances in the ice bucket of the ice maker, except the ones recommended by the manufacturer.

A This appliance contains flammable materials, and must be handled and recycled by qualified personnel and institutions when discarded.

Do not damage the refrigeration circuit.

Use a grounded outlet to prevent electric shock. If there is no, the grounded socket device must be assembled by a professional technician. The unit must be positioned so that the plug is accessible.

Some models use flammable refrigerants and flammable foaming agents, so beware of fire

(The product is marked ^M"Warning fire"). When the appliance is abnormal, it must be repaired by professional personnel and institutions.

Safety Precautions

- 1. The voltage of this appliance is: 120V \sim / 50Hz. If the voltage is unstable or with large fluctuation, please install a voltage regulator.
- 2. Make sure the appliance is earthed, and ensure effective earthing, as well as the earth wire must not be connected to the water pipe or gas pipe.
- 3. In order to protect the compressor, do not start the appliance again within 5 minutes after power off.
- 4. Do not connect other appliances to the same socket.
- 5. If the power cord is damaged, in order to avoid danger, it must be repaired or replaced by professionals.
- 6. The electrical control system has a voltage of more than 36V. If maintenance is required during using, please have it handled by a professional technician.

WARNING: Do not operate the ice maker when there is a gas leak in its environment. Fire

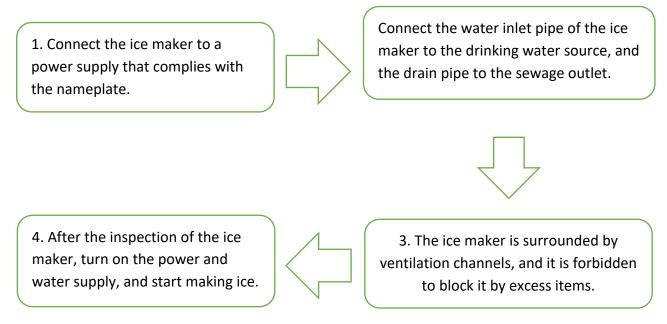
hazard may occur due to sparks caused by unplugging or plugging or the start-stop controlled by the temperature controller, the air source should be cut off first, and allow air to circulate.

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Correct operation

When using the appliance for the first time or using it continuously, please follow

below rules!



·Use an independent water source for the ice maker, and check regularly to prevent low water, fluctuations, or blocked filters.

·Do not store anything in the refrigerator, and even worse to freeze or freeze any

food in the refrigerator, to keep the ice shovel clean.

When closing the plastic door of the refrigerator, open or close it gently, and do not hit the door, and please also close the sliding door after taking the ice out.

The ice maker should be kept away from heat sources, strictly forbidden to use it in high or low temperature environment. Away from direct sunlight to avoid affecting the heat dissipation of the appliance.

·Do not wash the ice maker surfaces with water directly, which may cause short circuit and leakage.

If the ice maker is suspended for a long time after using it for a period of time, it should be powered on for 4-6 hours every two months.



Avoid sun and rain

Good ventilation

Placement should be stable

Environment

This unit is designed according to the following conditions:

1. Household Use

2. No more than 2000 meters above sea level

3. Temperature is not higher than 32 $^{\circ}$ C, the maximum relative humidity is 80%, and the maximum relative temperature decreases linearly with the increase of temperature.

4. The main transformer power supply voltage fluctuation does not exceed 10% of the rated voltage.

5. Meet the equipment installation level (over voltage level) transient over voltage.

6.Accordance with ICE664 standard.

This appliance is used for similar purposes, such as:

·Staff kitchen areas in shops, offices and other working environments;

·Farm houses and by clients in hotels, motels and other residential type environment;

·Family hotel environment;

·Catering and similar non-retail applications.

Installation location requestment

Transporting and moving conditions:

When transporting, keep the tank as upright as possible, and the inclination does not exceed 45 °maximum. Do not locate it upside down or horizontally. To operate the ice maker properly and get the best performance, please locate the ice maker as the following conditions.

1.Level & flat floor: Put the ice maker on a level & flat floor, to avoid excessive

vibration and noise.

2.Keep away from heat resource: Avoid locating the ice maker near hot equipment, such as gas stoves or stoves. The ice making performance will decrease when the ice maker is heated.

3.Avoid direct sunlight: If the ice maker is located in direct sunlight, it may cause abnormal performance and may shorten its working life.

4.Dry area: Avoid locating the ice maker in a wet area, such as near a faucet or a sink.

WARNING:

 \triangle Make sure to use a plug with a grounding structure and ground the ice maker, to prevent electric shock in the event of a leakage.

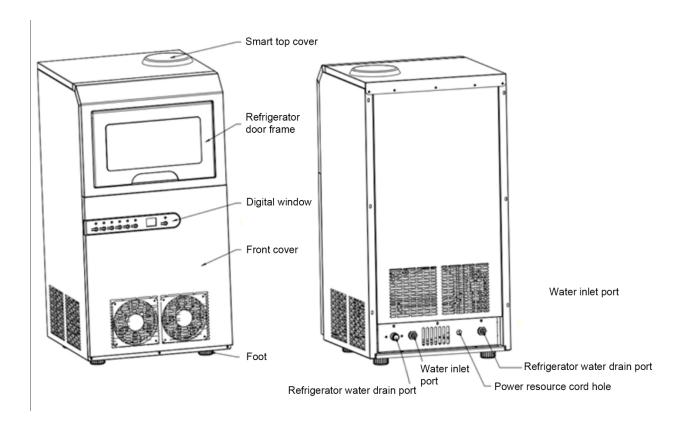
Replacing the ground terminal with a water pipe will not provide effective ground protection in many situations, because plastic pipes are often used as water pipes.

 \oslash Do not ground the ice machine through a gas pipe, very dangerous.

Do not ground the ice machine through a telephone line or lightning protection, because lightning strike will create generate large currents, very dangerous.

 \triangle Install a disconnect switch: If locate the ice maker in a wet area, a disconnect switch must be installed and the ice maker must be earthed. Install the disconnect switch in the power circuit. For further information, please consult the ice maker retailer or electrical technician.

·Ice maker external structure and interfaces name



Installation & Location

Base installation:

- 1. Locate the ice maker in a level & flat fllor.
- 2. Adjust the height of the feet to make the ice maker level.

3. The ice maker is not suitable for outdoor use. The normal use environment temperature is 10 $^{\circ}$ C \sim 32 $^{\circ}$ C, and the water temperature is 5 $^{\circ}$ C \sim 30 $^{\circ}$ C. High temperature will seriously decrease the ice making performance.

4. The ice maker should not be installed in an environment where there is no sewer and water is not allowed, and it should be away from high temperature equipment (such as refrigerators or ovens). 5.Air-cooled ice makers rely on air circulation to dissipate heat. Therefore, it need at least 15cm of space between the front, back, left, and right of your ice maker and wall, good for heat dissipation.

Water Connection:

1. The ice maker must use room temperature filtered drinking water.

2. The water pressure of the water supply must be controlled between 100kpa and 800kpa. A pressure relief value is required for overpressure. Do not squeeze the water inlet hose.

3. At the same time of feeding the tap water, the bucket water inlet valve must be closed.

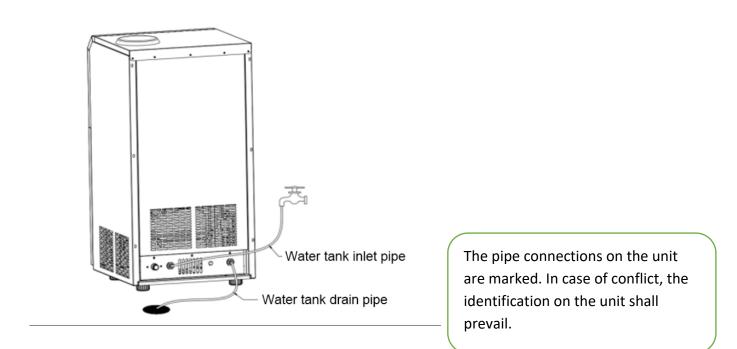
4. When using bucket water, please plug the inlet valve with a plug to prevent water leakage.

5. Please note the "Water inlet port" and "Water draining port" signs at the interface.

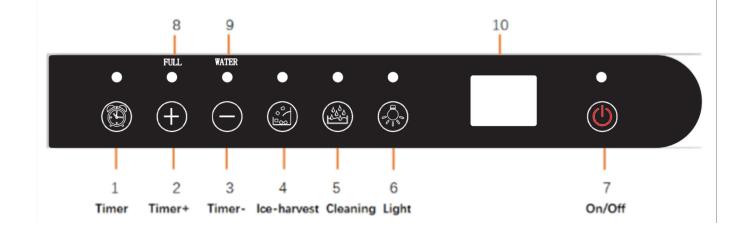
6. The ice maker's drainage depends on gravity, so the drainage pipe must have sufficient slope and drop.

Warning: Please only use drinking water.

Installation



Operation



- 1. For reversation
- 2. For increasing ice-making time or reservation time
- 3. For decreasing ice-making time or reservation time
- 4. Force ice-harvest

- 5. For Automatic Cleaning
- 6. Blue light
- 7. For turning On or turning Off the appliance
- 8. Indicates ice full
- 9. Indicates water Absense
- 10. Display Ice making time/ Reservation time/ Temperature

Operation the ice-making process

1. Ice-making:

After all the water pipes are connected, plug on the main power supply plug, then press On/Off button to start the fan motor, and determine the ice making time according to the ambient temperature. The compressor and the circulating water pump will start to run, and then ice making begins. During the ice making process, the water pump will last running, and the water will flow down from the top of the ice tray into the water tank, then the water will slowly cool until it freezes. When the ice cube reaches the reservation time position, the program will switch to the ice-harvest process.

2. Ice-harvest:

During the ice-harvest process, the reversing valve is opened, the ice tray will be heated, and the connection between the ice cube and the ice tray will be melted. When the ice cube cannot be attached to the ice tray due to its own weight, it will fall down and one ice-harvest is finished.

When the ice falls, the flap is flipped, and then the flap is reset due to its own weight, then the machine starts to make the next ice. However, due to too many ice cubes are in the refrigerator, and they press against the flaps to make the flaps cannot be reset, the control chip will judge that the ice is full and temporarily stop and will restart until the flaps are reset.

3. Off-Timer and On-Timer setting

After power-on, during the unit is in off-state, press the Timer button, the digital window will flash to display the setting delay time. Press the "Timer +" or "Timer -" button to adjust the delay time of the timer, the system will enter the On-Timer mode automatically 5 seconds after setting.

Off-Timer: After power-on, during the ice making process, press the Timer button, the digital window will flash to display the setting delay time. Press the "Timer +" or "Timer -" button to adjust the delay time of the timer, the system will enter the Off-Timer mode automatically 5 seconds after setting.

4. Forced ice-harvest

During the ice making process, press the ice-harvest button, the unit will enter the ice-harvest program in advance, and will continue to run the next ice-making cycle after the ice-harvest is finished

5. Clea0ning function

After power-on, connect the water resource, press the cleaning button, the unit will enter the automatic cleaning program, and it will automatically stop after 10 minutes. After the cleaning program is finished, please remove the drain plug and drain the sewage.

6. One-button blue light

During ice making process, press the blue light button, it will light up inside the box, which can make the ice making programs absolutely clear.

Note:

In summer and hot environment, it is recommended to adjust the ice thickness range: 15 to 29 min.

In winter and cold environment, it is recommended to adjust the ice thickness range: 10 to 18 min.

Digital window fault code

E1: Ambient temperature (sensor) failure, shutdown.

E2: If the on / off signal of the ice full switch is not detected for 90 minutes, the unit stops running and reports a mechanical failure.

Fault self-diagnosis

1.Water pump-You can directly observe whether water flows down from the ice tray. If not, the water pump may malfunction.

2. Ice making——After the ice-making last running for 10 minutes, the water in the water tank will become noticeably cold. You can directly touch the ice tray or running water to feel the water temperature.

3.Water inlet-During the automatic cleaning process, it can be observed that water continuously flows into the ice storage bucket from the overflow pipe of the water tank. During the ice making process, you can reach into the water tank with your hand to feel the amount of water, which normally accounts for more than half of the water tank.

Troubleshooting

Problem	Possible cause	Solution
lce maker does not start	Bad socket contact	Change socket
	The refrigerator is full of ice cubes	Remove the ice cubes and start it manually
	The flap is not reset	Adjust the flap to enable free reset
lce maker stops after running	Water source is not turned on or connected not strong	Recheck water resource
	Ice maker is not located horizontally	Adjust the feet and locate them horizontally
	Over temperature shutdown protection	Remove the front panel and clean the condenser
Significant reduction in ice cubes production	Not cleaned up for more than two months	
	High water temperature (Possible in summer)	
	Ambient temperature is too high	Clean up the surrounding
	Small or closed environmental spaces	Clean surrounding and allow air to circulate
	Sink overflow	Check the water inlet valve or mechanical float
The transparency of the ice cube is not very good or ice cube shape is irregular	Improper adjustment of ice thickness	Reset ice thickness
	Water quality is bad	Install filter and replace filter element
	Ice maker water tank or the ice tray is very dirty	Clean the ice maker and replace the filter
	Uneven water flow above the ice tray	The shunt tube needs to be cleaned or the unit is not level.
	Too much water above the ice tray	Tie the water pump silicone tube
Can't take off ice	Ice cube is too thin or too thick	Adjust ice thickness

Excessive noise	The ice maker is not stable and the soles of the feet are floating	Locate the ice maker on a stable surface
	The ice maker touches other objects	Avoid touching other objects
Condensatio n on the case	The refrigerator door is not completely closed	Close the refrigerator door completely
	Working in high temperature and high humidity environment	Normal

Maintenance

Please follow this manual to maintain the ice maker, in order to improve its reliability and service life. And while maintaining hygiene, avoid the increasement of energy consumption coefficient for the ice production.

1. Always clean the surroundings of the appliance to keep it clean. Do not block the shutters of it.

2. The exterior can be cleaned with a neutral detergent solution, and then wiped clean with a soft cloth. If necessary, commercial stainless steel cleaners and polishing agents can be used.

3. The filter element should be checked regularly. Most common filter elements are replaced half a year, and advanced filter elements should be replaced on time in accordance with the instructions.

4. It can use a water pipe to flush directly, when cleaning the inside of the ice maker's water tank and refrigerator. Never overpressure, and never flush the pump and above the ice tray directly, to prevent the circuit parts from being immersed.

5. Maintenance of condenser for air-cooled ice maker: Clean the air-cooled condenser every three months. Use a soft brush or a vacuum cleaner with a brush to scrub the condenser fins up and down in the direction of the fins to avoid damaging the fins and affecting the cooling performance.

Overwintering maintenance: In addition to turning off the power resource, drain the residual water in the ice maker's water tank, inlet pipe and drain pipe.

Cleaning and maintenance of the ice maker is not included in the free service. Please replace the filter regularly. If severe scale is inside the ice maker, or the waterway is blocked, which causes the abnormal performance, please clean it in time.

Before cleaning and maintenance, please make sure to turn off the water and power and unplug.

The edges of the air-cooled condenser fins are sharp, so please be careful when cleaning.

Check the water source, please turn off the water resource before unplugging the water inlet port of the ice maker,

to provent high-proceure water lete

On-site service charges will be charged when there is a failure due to user errors (such as no water, no electricity, environmental factors, etc.). Machine consumables are not covered by the warranty

Please use genuine consumables, such as filters, filter elements, ice shovels, water pipes, etc.

If the ice maker is abnormal, please confirm the following before calling:

1. Check if the water supply to the ice maker is normal

Checking method: Unplug the ice-making water inlet port on the back of the unit, the water resource is normal if the water leaks for a long time, otherwise it means no water.

2. The ice maker produced by our company is fully automatic and does not require manual operation. So please check if the machine is powered on with an electrician, and focus on checking the socket.

3. Check the model and number of the ice maker.

The model nameplate is on the back of the unit.

·Technical parameters

Specification	LS-IM003
Rated power / frequency	320W
Ice trays number	45 trays
Protection against electric shock	I Level
Water inlet mode	Tap water / bucket water
Tap water inlet pressure	100-800KPa
Insulation Materials	Cyclopentane (C5H10)
Applicable environmental level	SN, N,
Gross /net weight	G.W 25.8kg/N.W 24.5kg
Product Size	380*420*755mm