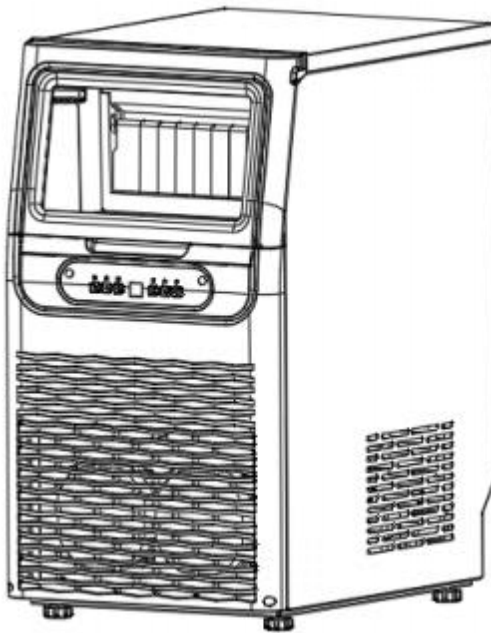


Commercial Spray Ice Machine Operation Manual



For your safety and proper use of this product, please read this manual carefully before use. Keep it for future reference. In case of any discrepancies, the actual product takes precedence over the packaging contents.

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Important Safety Instructions

- When using electrical appliances, basic safety precautions must be followed to reduce the risk of fire, electric shock, or injury. Read the entire manual before operating the appliance.
- The machine must be installed correctly according to the installation procedures before use.
- Do not place the power cord under carpets or near heat sources. Avoid placing the cord in high-traffic areas or submerging it in water. Extension cords are not recommended due to overheating or fire hazards.
- If the power cord is damaged, it must be replaced by a qualified professional from the manufacturer or an authorized service center.
- Unplug the machine when not in use.
- Before cleaning or servicing, unplug the machine or disconnect the power supply. Note: Repairs should only be performed by qualified professionals.
- Never pull the plug by the cord; always grip the plug firmly and pull straight out.
- Do not store explosive materials, such as flammable sprays, in the appliance. This appliance is intended for household and similar use, including:
 - Kitchen areas in shops, offices, or other workplaces.
 - Farms, hotels, motels, and residential environments.
 - Bed-and-breakfasts.
 - Catering and similar non-retail applications.
- Warning: Do not use the ice machine outdoors or expose it to rain. Place the machine indoors in a well-ventilated area, away from direct sunlight. Ensure sufficient clearance around the machine for proper heat dissipation. Refer to the "Installation Instructions" in the manual for specific requirements.
- Avoid tilting or tipping the machine, as this may cause abnormal noise, irregular ice size, or water leakage.

- If the machine is moved indoors from a cold environment in winter, allow it to warm up before operation.
- Only use the appliance with accessories recommended by the manufacturer.
- **Warning:** The machine must be grounded and connected to a 110V~ /60Hz power supply.
- Connect only to a potable water source that meets local drinking water standards.
- Do not use mechanical devices or other methods to accelerate defrosting. Do not damage the refrigeration circuit.
- The refrigeration system contains high-pressure refrigerant. Do not tamper with the system. Installation and servicing must be performed by the manufacturer or qualified personnel. Dispose of the machine through designated recycling channels.
- The ice machine contains flammable insulation materials. Keep away from fire sources. Repairs must be performed by the manufacturer or qualified personnel. Dispose of the machine through designated recycling channels.

Installation and Connection



Warning: Fire hazard/
Flammable materials

Note: Installation must be performed by qualified personnel according to the manual.

1) Unpacking

Warning: Do not allow children or individuals with limited cognitive abilities to play with foam or other packaging materials, as they may pose a hazard.

Note: Remove all packaging materials before use to ensure proper operation.

- a) Remove packaging and inspect the machine for damage.
- b) Open the accessory bag and verify all components are included:

Warm Tips:

1. Check that all the accessories listed below are included.
2. Install the machine according to the manual.
3. Allow the machine to stand 24hours after you get it.

Accessories list				
NO	Description	Picture	Usage	QTY
1	Manual	Commercial Spray Ice Machine Operation Manual  For your safety and proper use of this product, please read the manual carefully before use. Please do not touch the power cord or plug. If you have any questions, please contact the manufacturer. The manufacturer is not responsible for any damage or injury caused by the improper use of this product. Product Model: XH-1000 Product Name: Commercial Spray Ice Machine	Operation manual	1PC
2	Filter		Filter water	1PC
3	Drainage pipe		Drain	1PC
4	Ice spoon		Take ice cubes	1PC
5	4-point to 2-point internal thread washer		In the joint of the water pipe	2PCS
6	6-point to 2-point internal thread washer		In the joint of the water pipe	2PCS
7	Spare blue clip		Spare blue clip if needed.	4PCS
8	Spare plug		Spare plug for sealing the tank, if needed.	1PC

The main part of the sink



Installation steps for the main components of the sink

parts	installation	Detailed Step-by-Step Instructions	Important Notes
 sieve	 Install the filter screen	1.Align the filter screen with the screw hole of the slot at the bottom of the sink. 2. Note: Ensure that the edge of the filter screen is seamless to prevent the leakage of impurities.	Sequential: It is recommended to install in sequence according to the steps in the table. Avoid subsequent parts blocking the previous operation.
 overflow pipe	 Install the overflow pipe	Align the overflow pipe interface with the overflow outlet of the water tank, insert it and rotate it to fix.	Sealing property: The parts involved in the connection of water pipes (Such as the inlet pipe and overflow pipe) need to be inspected repeatedly to prevent leakage.

		1. Install the water inlet pipe below the Spray pipe assembly to complete the component installation	Cleaning and maintenance: Regularly clean the filter screen and spray holes. Prevent clogging by scale.
		1. Tighten the water inlet pipe to the water inlet of the water basin 2. The other end is connected to an external water source pipeline	If leakage occurs, retighten the connection or apply sealing tape.
		1. Place the grid structure flat inside the water tank and align it with the two side slots. 2. Press down or slide until it is fully inserted, making sure there is no shaking.	Uneven spraying: Check whether the spray square tubes are level. Clear the clogged holes.
		1. Align the hook or slide groove at the top of the water curtain with the hook at the edge of the water tank. Carry out installation. 2. Adjust the flatness of the curtain fabric to ensure there are no wrinkles or tilts. Test: After spraying water, observe whether the water curtain effectively blocks splashing water.	The water-blocking curtain falls off: Confirm whether the hook is installed properly. Reinforce when necessary.

2) Machine Placement

Before installation, use a level to ensure the machine is placed horizontally. Visually check the top of the machine for level alignment.

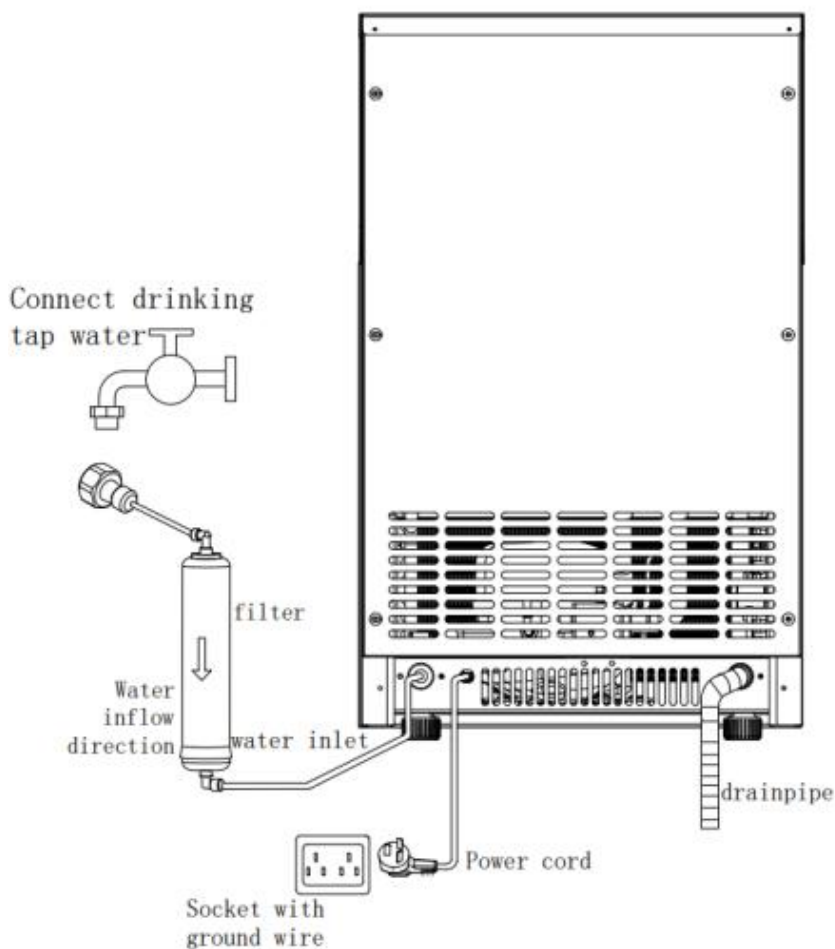
- a) Place the machine in a clean, well-ventilated indoor area. Avoid outdoor placement, direct sunlight, or rain exposure.
- b) Keep the machine away from heat sources.
- c) Ambient temperature should be between 10°C (50°F) and 38°C (100.4 ° F). Ensure adequate clearance around the machine for optimal ice production and heat dissipation.
- d) Place the machine on a stable, level surface. Adjust the leveling during installation.
- e) Do not place any objects on top of the ice machine.
- f) Maintain sufficient clearance on all sides for proper airflow and maintenance access.

Location	Clearance
Sides	50cm (19.69 in)
Rear	50cm (19.69 in)
Front	50cm (19.69 in)

3) Water Line Connection

Warning: Connect only to a potable water source that meets local drinking water standards.

- If using tap water, install a filter to improve water quality. Do not connect directly to unfiltered tap water. The manufacturer is not responsible for malfunctions caused by water quality issues.
- Water pressure should be between 0.1–0.4 MPa(14.5-58.02 Psi). If pressure exceeds 0.4 MPa(58.02 Psi), install a pressure-reducing valve.
- The drain hose relies on gravity flow. Ensure the drain hose has sufficient elevation or drop.

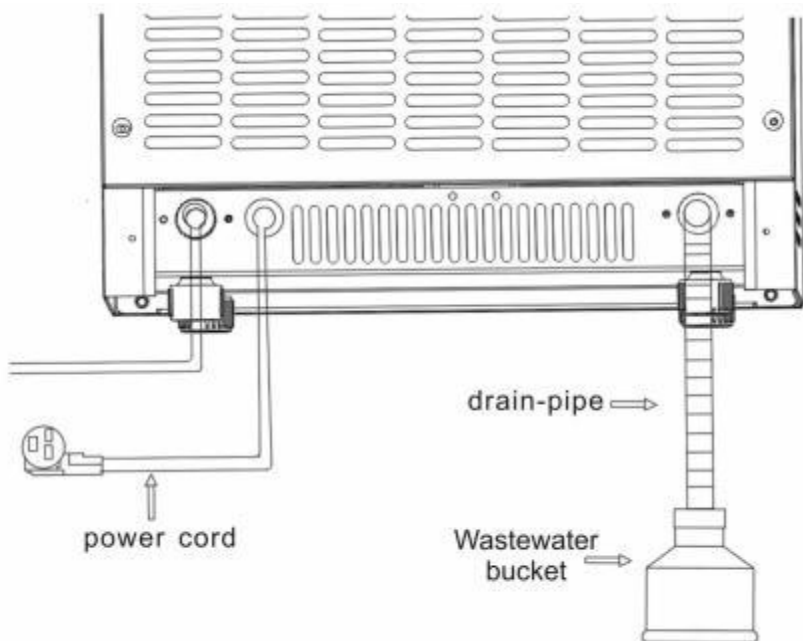


Water Line Connection Diagram

Machine Drainage

Warning: Ice in the machine will melt. Always connect the drain hose to a waste container or sewer line before use. The manufacturer is not responsible for water damage caused by improper drainage.

Note: Connect one end of the drain hose to the machine's drain outlet and the other end to a waste container or sewer line. Ensure the drain outlet is lower than the machine's drain port.



1) Electrical Connection

Warning: The machine must be connected to a grounded power outlet.

- Ensure a 110V ~ /60Hz power supply with proper grounding is available.
- The fuse in the electrical box must be rated above 10A. Replacement must be performed by a qualified professional.
- If the power cord or plug needs replacement, contact an authorized service technician.
- Voltage fluctuations must not exceed $\pm 10\%$ of the rated voltage. Otherwise, install a voltage stabilizer.
- The internal blue light cannot be replaced by the user. Contact a professional for replacement.

Warnings:

This ice machine is for producing and storing ice. To ensure hygiene:

- Wash hands before handling ice. Use the provided plastic ice scoop.
- Do not store any items other than ice in the storage bin.

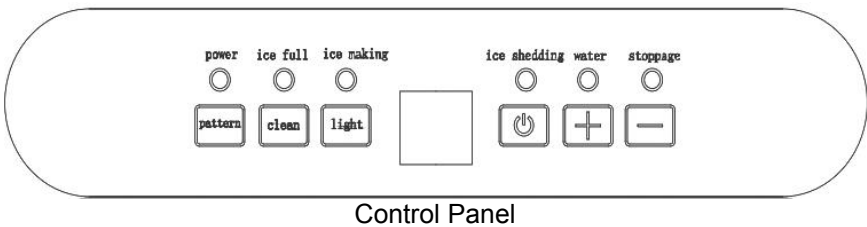
- c) Clean the storage bin before first use. Keep the scoop clean by washing it with neutral detergent. Close the door after use to prevent dust ingress.

General electrical safety precautions:

- a) High humidity increases the risk of short circuits or electric shock. If in doubt, disconnect the power supply.
- b) Do not unplug the machine by pulling the cord.
- c) Do not allow children or elderly individuals to operate the machine unsupervised.

Operation Instructions

1) Control Panel Overview



2) Brief Description of Machine Functions:

1. Before plugging in the power cord of the new machine, connect the water lines of the machine and turn on the faucet.
2. After plugging in the power cord, the digital display shows "--," indicating that you can begin ice-making.

3) Key Functions:



Key:

1. Press the  button when the machine is on.
2. Press the  button to turn on the machine when it is off.

3. In the setting state, press the  button to exit the setting state and save the parameters.
4. In the ice thickness setting state, press the  button to exit the ice thickness setting and save.

Clean Key:

1. Tap to display the evaporation temperature.
2. In the off state, tap to enter the cleaning mode. The automatic cleaning time is 40 to 60 minutes.
3. Press and hold for 3 seconds to display the last ice-making time.

Pattern Key:

1. After turning on the machine, if there is water in the water tank, simply press the "Pattern" button to directly enter the ice-making mode without any waiting time.
2. In the ice making state, press "Pattern" to enter the de-icing state.
3. In the de-icing state, press "Pattern" to enter the ice full state.



Keys

1. When the machine is in ice-making mode, press  to enter the ice thickness setting. Press  again to increase the ice-making time by one minute each time, up to a maximum of 12 minutes. Press  to decrease the ice-making time, with a minimum of 3 minutes. After setting the desired ice-making time, press  or wait for 7 seconds to complete the setting.
2. When the machine is in standby mode, press  to increase the time by one hour each press, up to a maximum of 18 hours. After setting the desired time for the machine to start up automatically, press  again to enter the countdown for the scheduled startup.

Light Key:

1. Press this button to turn on the blue light.

Note: When the machine is in the "water shortage protection" state, restart it. If the machine stops due to other faults, please press the start button again or connect the power supply after 45 minutes, and the machine can restart.

Cleaning and Maintenance

1) Cleaning Internal and External Components

Note:

1. Unplug the machine before cleaning or maintenance.
2. Have the condenser inspected and cleaned by a service technician at least once a year for optimal performance.
3. Do not use alcohol or harsh chemicals, as they may damage plastic components.

a) Exterior

Wipe the exterior with a soft, damp cloth weekly. Use a neutral detergent for stubborn stains.

b) Ice Scoop (Weekly)

Soak the scoop in a neutral detergent solution for 3 minutes, then rinse and air-dry.

Note: Drying with a cloth may recontaminate the scoop.

c) Storage Bin (Weekly)

Open the door and remove all ice.

Clean the interior with neutral detergent, rinse, and dry with a clean cloth.

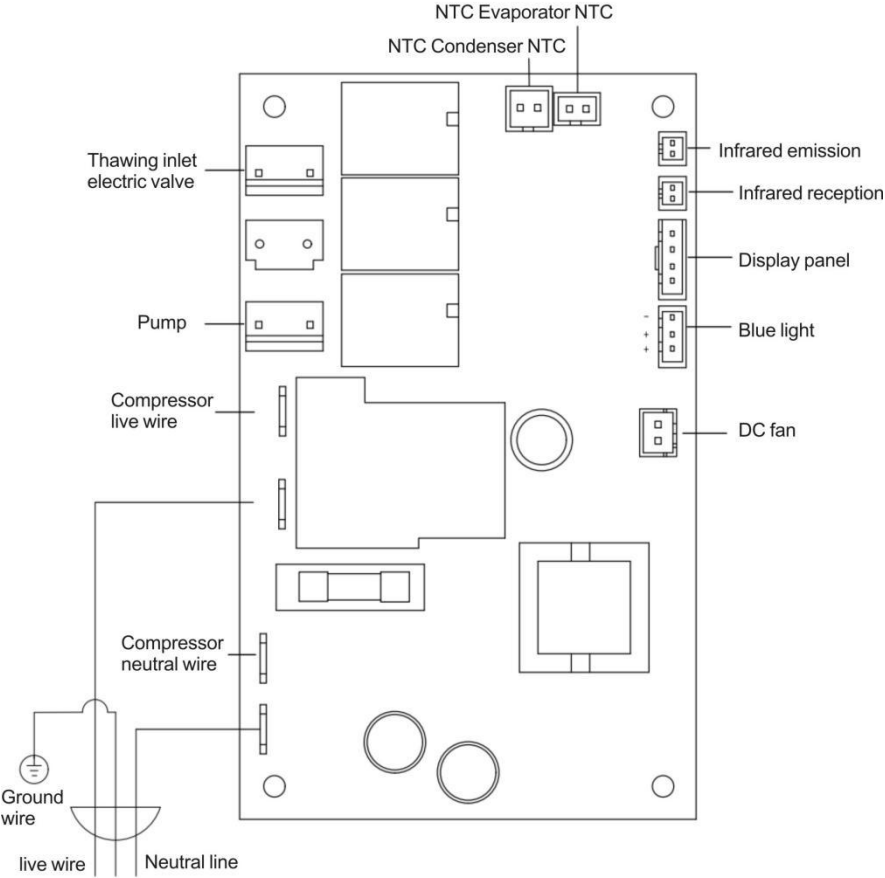
d) Water Pump (Weekly)

Unplug the machine, remove the pump from the tank, and clean the inlet with a small brush. Reinstall afterward.

2) Long-Term Storage

- a) Unplug the machine.
- b) Close the water valve and disconnect the inlet hose.
- c) Remove all ice and drain water from the storage bin and tank.
- d) Clean and dry the interior surfaces.

Circuit Diagram



Troubleshooting

1) No Ice Production

Symptom	Check	Possible Cause	Solution
Machine does not start	Power cord	Not plugged in	Plug in
	Control board fuse	Blown or damaged	Replace
	Storage bin	Ice bin full or ice blocking evaporator	Remove ice
	Power supply	No power or low voltage	Contact utility provider
	Water valve	No water or low pressure	Increase water pressure
	Inlet valve	Clogged filter or faulty valve	Clean filter or replace valve
Compressor fails	Power supply	Low voltage	Contact utility provider
	Air intake	Blocked	Clear obstruction (min. 15 cm clearance)
	Condenser	Dirty	Clean condenser
	Refrigeration system	Leak	Contact service technician
	Compressor	Loose or disconnected wires	Contact service technician
No water in tank	Float switch	Stuck or faulty	Adjust or replace
	Water line	Clogged or no water supply	Check line or contact water provider
Water leakage	Inlet connection	Loose or improperly installed	Tighten or reinstall
	Inlet/drain hose	Cracked	Replace

2) Low Ice Production

Symptom	Check	Possible Cause	Solution
Slow ice production	Water pressure	Low pressure	Increase pressure
	Water temperature	Too high	Lower temperature
	Ambient temperature	Too high or low	Relocate machine
	Refrigerant	Leak	Contact service technician
Thin/insufficient ice	Condenser	Dirty	Clean condenser
	Filter	Clogged	Clean or replace
	Water pump	Faulty	Replace pump
	Air intake	Blocked	Clear obstruction (min. 15 cm clearance)

3) Error Codes

Code	Description	Solution
FULL	Ice bin full	Remove ice or check bin sensor
E-02	Ice production timeout	Check fan, refrigerant, or compressor
E-03	De-icing timeout	Check water supply and ambient temperature (10–38 °C/50- 100.4 °F)
E-04	High-temperature fault	Check ambient temperature and fan
E-05	Water shortage	Check water supply