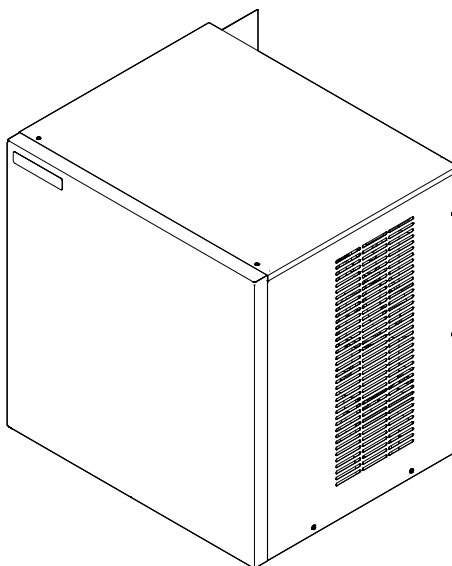


ICE MATE

MODULAR RHOMBIC CUBER

INSTRUCTION MANUAL

SRM-450AB-S
SRM-450AB-S-14



SRM-450AB-S
SRM-450AB-S-14

- This booklet is an integral and essential part of the product and should be kept and preserved by the user.
- Please read carefully the guidelines and warnings contained herein as they are intended to provide the installer/user with essential information for the proper installation and the continued safe use and maintenance of the product.
- Please preserve this booklet for any further consultation that may be necessary.

Manufacturer: **HOSHIZAKI CHINA CORPORATION**
No. 15 Qingqiu Street, Suzhou Industrial Park, Suzhou 215126. China

L1M175102(113024)

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IMPORTANT SAFETY INFORMATION

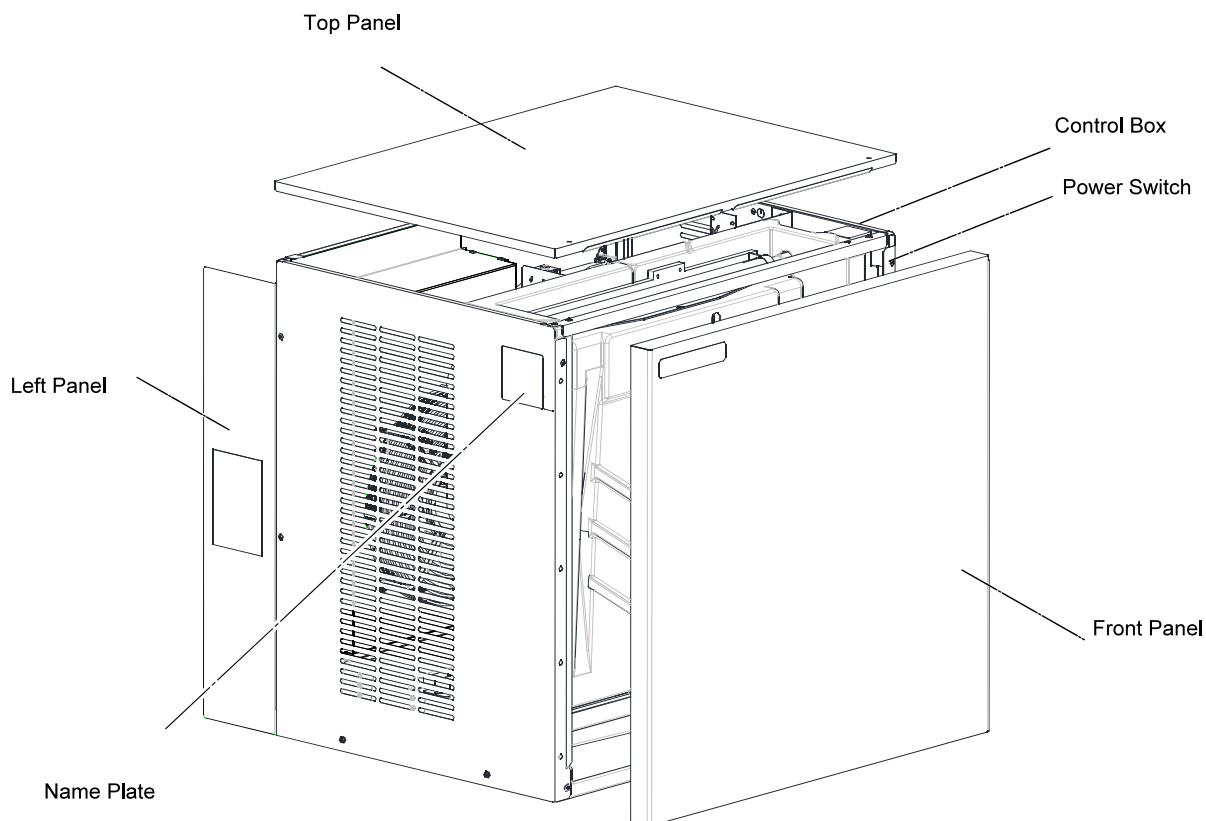
Throughout this manual, notices appear to bring your attention to situations which could result in death, serious injury or damage to the unit.

⚠WARNING	Indicates a hazardous situation which, If not avoided, could result in death or serious injury.
⚠CAUTION	Indicates a hazardous situation which, If not avoided, could result in minor or moderate injury.
NOTICE	Indicates a hazardous situation which, If not avoided, could result in damage to the unit.
⚠HYGIENE	Indicates important precautions for hygiene and food safety.
IMPORTANT	Indicates important information about the use and care of the unit.

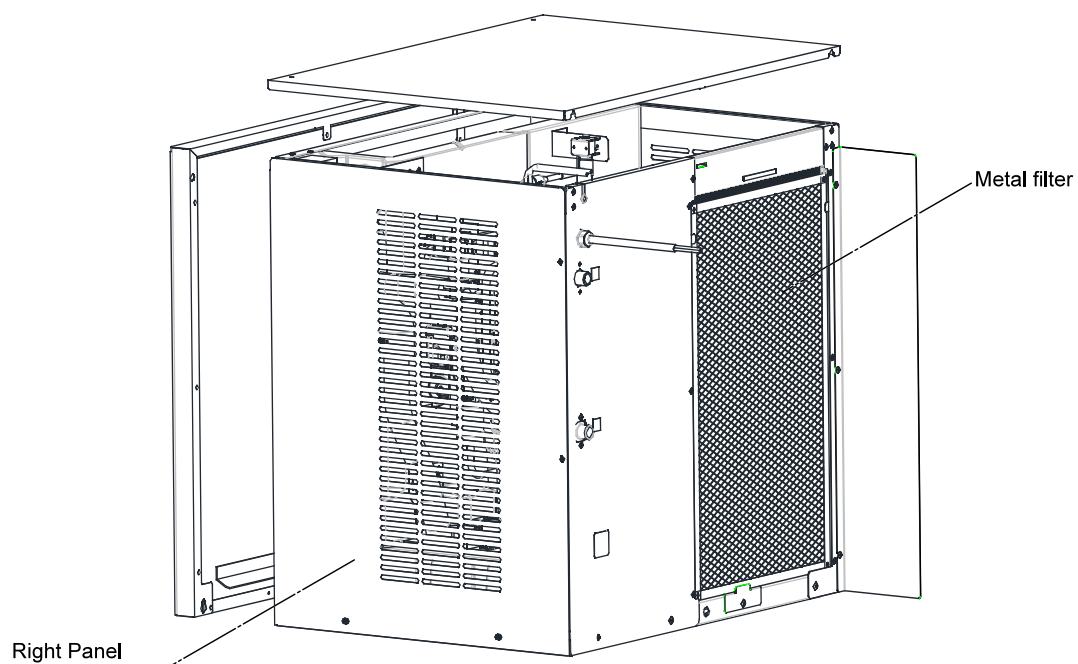
⚠WARNING	
The ice maker is a commercial icemaker, and should be destined only to be used for the purpose for which it has been expressly designed. Any other use should be considered improper and therefore dangerous. The manufacturer will not be held liable or responsible for any damage caused by improper, incorrect and unreasonable use.	
The installation, and relocation if necessary, must be carried out by qualified personnel, in accordance with current regulations, according to the manufacturer's instructions.	
Keep ventilation openings, in the appliance enclosure or in the built-in structure, clear of obstruction.	
The use of any electrical appliance involves the observance of some fundamental rules. In particular: *Instance of any high humidity and moisture increase the risk of electrical short circuits and potential electric shocks. If in doubt, disconnect the icemaker. *Do not damage the power cord or pull it in order to disconnect the icemaker from the electrical supply network. *Do not touch electrical parts or operate the switches with damp hands. *This product is not intended for use alone by persons (including children) who are handicapped, mentally retarded, or who lack appropriate experience and knowledge, unless there is a person responsible for their safety and for supervising and instructing them in the use of the product. *Young children should also be under supervision so that they do not have access to the product. *Do not attempt to modify the ice maker. Only qualified personnel may disassemble or repair the appliance.	

I. INSTALLATION INSTRUCTIONS

1. CONSTRUCTION



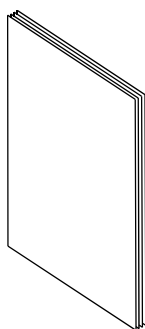
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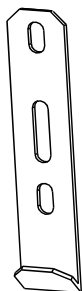
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[SRM-450AB-S-14]

2.ACCESSORIES

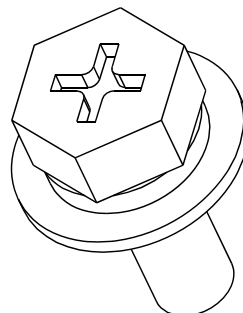
	SRM-450AB-S	SRM-450AB-S-14
Instruction Manual	1	1
Universal Brace	2	2
Hex Head Bolt	2	2
Hose	1	1
Outlet Hose	1	1



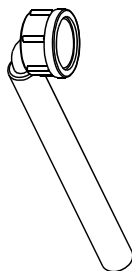
Instruction Manual



Universal Brace



Hex Head Bolt



Hose



Outlet Hose

3.UNPACKING

⚠WARNING

Children should not be allowed in reach of the Packaging elements (plastic bags and expanded polystyrene,etc.) as they are potential sources of danger.

CAUTION

Do not use straps to lift or move cartons.

When moving the unit,hold the unit bottom.

Always wear protective gloves when carrying the unit.

When handing the carton or the unpacking unit,work in pair to prevent injury.

NOTICE

Remove shipping carton,tape(s) and other packing.If the packing material is left in the ice make,it will not work properly.

1)After unpacking, check that the Ice Maker is in good condition. If in any doubt, do not use this product and contact a qualified professional.

2)Remove the shipping tape holding the front panel and evaporator cover.

ENGLISH

- 3) Remove the plastic protective film from the outside surface. If the ice maker is exposed to sunlight or heat, allow the ice maker to cool before removing the plastic protective film.
- 4) Remove the front panel and top panel, then remove accessories from the machine room.
- 5) Remove the package of accessories. Check the contents according to "2.ACCESSORIES".

4. LOCATION

⚠ WARNING

This ice maker is not intended for outdoor use.

This ice maker should not be located next to ovens, grills or other high heat producing equipment.

This appliance is not suitable for installation in an area where a water jet could be used.

⚠ CAUTION

The location should provide a firm and level foundation for the icemaker.

NOTICE

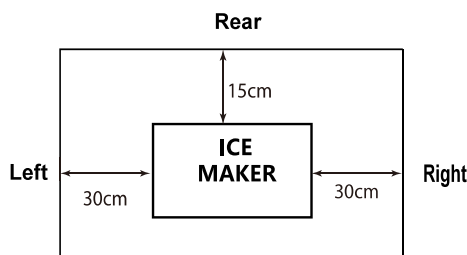
Do not place anything on top of the ice maker or on the air inlet.

IMPORTANT

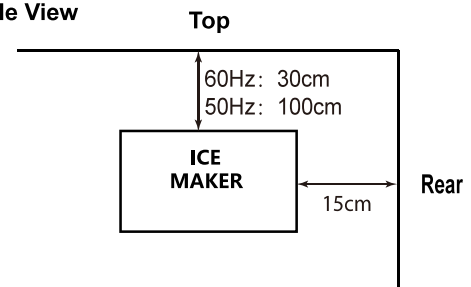
Normal operating ambient temperature should be within 5°C to 38°C. Normal operating water temperature should be within 5°C to 32°C. Operation of the icemaker, for extended periods, outside these normal temperature ranges may affect production capacity and life.

Allow the clearance specified below for proper air circulation and ease of maintenance and/or service should they be required.

TOP View



Side View



In high humidity environments, condensation may be generated inside the machine, which can drip onto the floor. Therefore, do not install the machine in a location where the floor can be easily damaged by dripping water.

5. INSTALLATION

⚠ CAUTION

Incorrect installation can cause harm to people, animals or things, for which the manufacturer cannot be held responsible.

*Place the icemaker on top of the storage bin/dispenser unit by holding the bottom.

*Place the icemaker in the selected permanent site.

*The appliance must be positioned so that the plug is accessible.

*Level the dispenser unit/ice storage bin in both the left-to-right and front-to-rear directions. If using an ice storage bin, adjust the ice storage bin legs to level. See Fig. 1.

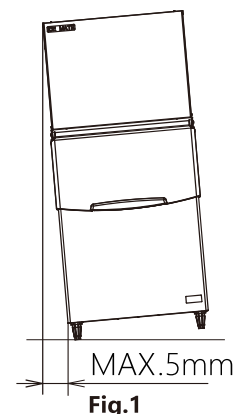


Fig.1

6. ELECTRICAL CONNECTIONS

⚠ WARNING

THIS APPLIANCE MUST BE EARTHED

This icemaker requires an earth that meets the national and local electrical code requirements.

To prevent possible severe electrical shock to individuals or extensive damage to the unit, install a proper earth wire to the icemaker.

Disconnect the power supply before carrying out any maintenance, repair or cleaning work.

*A separate power supply (220VAC/10A) is required for this series of ice machines and a suitable circuit breaker protector must be installed.

*The main control box fuse is rated at 5A and should be replaced by a qualified service engineer.

*Normally, the work should be carried out by maintenance personnel who are certified or authorized electricians.

*Replace the power cord with one supplied by the manufacturer's parts/service centre if the power cord is broken.

7. WATER SUPPLY AND DRAIN CONNECTIONS

⚠ WARNING

Connect to potable water supply only.

*Connection to the main water supply must comply with the relevant requirements of the applicable national water supply and water connection regulations.

*The water used for ice production must be potable.

In locations where scale is likely to occur due to water quality problems:

-An external filter or water softener is recommended. Please consult your local professional water treatment facility or manufacturer's authorised service facility..

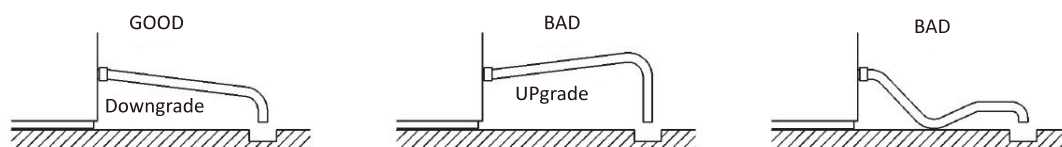
*Water supply pressure should be within 0.07MPa (0.7bar) to 0.55MPa (5.5bar) . If the pressure exceeds 0.55MPa (5.5bar), use a proper pressure reducing valve. Do not throttle back the supply tap.

*A plumbing permit and services of a licensed plumber may be required in some areas.

*The icemaker drain is gravity flow, so ensure drain pipe has an adequate pitch or fall.

*The drain line must not be connected directly to the groundwater system. Allow at least 5cm of vertical clearance between the end of the ice maker's drain line and the ground drainage.

*To prevent a backflow into the storage bin, the outlet hose must be laid as shown.



*Be sure to use the new hose-sets supplied with the appliance. Do not reuse any old hose-sets.

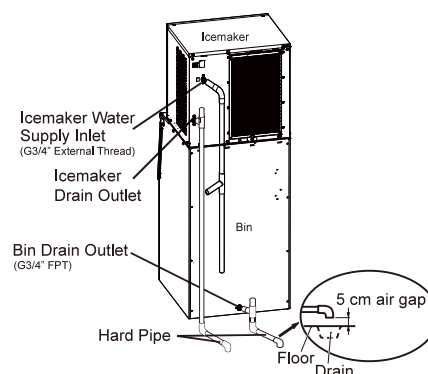
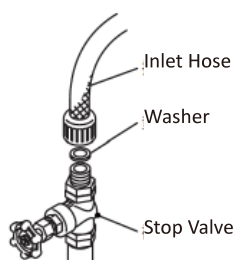
1) Connect the other end of the water inlet hose to the stop valve (supply tap), ensuring that the washer is properly seated before tightening.

Tighten the washer sufficiently by hand to prevent the fitting from leaking. It is advisable to install a stop valve in an easily accessible location.

2) The outlet hose can be cut to appropriate length according to the position of the main drain nozzle. To prevent condensation, it can be coated some insulation pipe out of drain pipe.

NOTICE

Jointing compounds should be approved and suitable for potable water use.

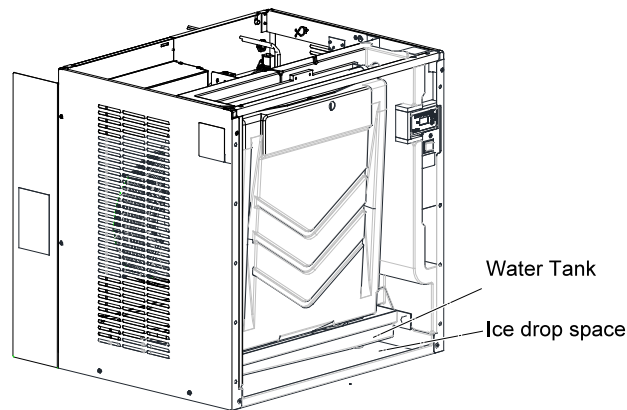


Separate piping to approved drain. Leave a 5 cm vertical air gap between the end of each pipe and the drain.

II. OPERATING INSTRUCTIONS

⚠ CAUTION

Do not put your hands into the ice drop space or water tank. The ice on the evaporator may drop off, a hard block of ice may suddenly break down, or pump motor may suddenly start-up, resulting in injury.



NOTICE

All parts are factory-adjusted. Improper adjustments may result in failure.

If the unit is turned off, wait for at least 3 minutes before restarting the icemaker to prevent damage to the compressor.

⚠ HYGIENE

This icemaker is designed to produce edible ice. To keep the icemaker hygienic:

- *Wash your hands before removing ice. Use the plastic scoop provided (accessory).
- *The storage bin is for ice use only. Do not store anything else in the bin, nor use other electrical appliances in the bin.
- *Clean the storage bin before use (see "III.1. CLEANING").
- *Keep the scoop clean. Clean it by using neutral cleaner and rinse thoroughly.
- *Close the refrigerator door after removing ice to prevent dirt, dust or insects from entering the refrigerator.

1. START UP

The installer will usually start the automatic ice making process to test run the ice maker.

To ensure that the ice maker is ready for continuous operation, check the following:

- *The water supply tap is on.
- *The icemaker is connected to the power supply.

2. PREPARING THE ICEMAKER FOR LONG STORAGE

NOTICE

This icemaker will not work at subfreezing temperatures. To prevent damage to the water supply line, drain the icemaker when air temperature is below zero.

⚠ HYGIENE

When shutting down the icemaker for two or more days, drain the icemaker to prevent contamination in the water circuit.

- 1) Unplug the icemaker or disconnect the power supply.
- 2) Close the water supply tap, and remove the inlet hose.
- 3) Remove all ice from the storage bin, and clean the bin.
- 4) Ask for draining of the icemaker by professional qualified personnel.

III.MAINTENANCE

1.CLEANING

⚠WARNING
Unplug the ice maker from the power supply network before cleaning or maintenance.
Do not use a water sprayer to rinse this ice machine.
When using neutral or sodium hypochlorite solutions, be sure to read and understand the accompanying instructions to avoid potential health problems.
Cleaning and sanitising of the ice maker water system (at least twice a year) and inspection and cleaning of the condenser (at least once a year) should be carried out by trained service personnel. (at least once a year)
To prevent possible damage, do not clean the plastic parts with water above 40 °C or in a dishwasher.

[a]Machine and Bin Exterior

Wipe the exterior at least once per week with a clean, soft cloth. Use a damp cloth containing a neutral cleaner to wipe off grease or dirt.

NOTICE
Do not use hard bristle brushes, wire brushes, or organic solvents such as stain remover, gasoline, thinner, acetone, etc. Do not use boiling water or cleaners containing acids or alkalis to clean the machine.
Do not rinse with water spray when cleaning, so as not to affect the insulation of electrical appliances.

[b]Scoop cleaning/Sanitisation (Daily)

- Step 1: Either mix 1 L of water with 4mL of 5.25% sodium hypochlorite solution in a suitable container, or the recommended manufacturer sanitizer as directed.
- Step 2: Soak the scoop in the solution for more than 3 minutes. Rinse thoroughly, and shake to remove surplus liquid.

NOTICE
Using a cloth to dry may re-contaminate.

[c]Storage Bin Interior Cleaning/Sanitisation (Weekly)

NOTICE
The following instructions are therefore for general guidance only.

- Step 1: After the ice removal cycle and all ice totally dropped, disconnect the power supply and cut off the water supply. Open the storage bin door, and remove all ice.
- Step 2: Wash the bin liner and door inner surface with a neutral non-abrasive cleaner. Rinse thoroughly with a clean cloth and fresh water.
- Step 3: Either mix 5 litres of water with 18 ml of 5.25% sodium hypochlorite solution in a suitable container or the recommended Hoshizaki sanitiser as directed.
- Step 4: Soak a clean sponge or cloth with the solution, and wipe the bin liner and door inner surface.
- Step 5: Rinse thoroughly with fresh water and a clean cloth to wipe off the solution. Close the bin door.

[d]Air Filter and Condenser

Metal mesh air filters remove dirt or dust from the air, and keep the condenser from getting clogged. If the filters get clogged, the icemaker's performance will be reduced. Remove and clean the air filters at least twice per month:

- Step 1: Loosen the metal mesh air filter sheet metal baffle and remove it.

NOTICE
Put gloves on to prevent the condenser fins from cutting your hands.

- Step 2: Clean the air filter by using a vacuum cleaner. When severely clogged, use warm water and a neutral cleaner to wash the air filter.

- Step 3: Rinse and dry the air filter thoroughly, and place it in position.

ENGLISH

[e]Icemaking Water System

Note

Because of the different water quality in various regions, some areas may need to be cleaned and sterilized more frequently.

Cleaning Method

■Before cleaning

⚠WARNING

Ventilation	Adequate ventilation	Prohibit	Do not dilute or mix agents with anything other than room temperature water.
	Chlorine gas generated from agents is a health hazard. Please operate in a ventilated place.		Putting in hot water will cause the agent to evaporate. Mixing with other agents or foreign matter will produce gas that is harmful to the human body and endangers health.
Wear protective equipment	Wear goggles and protective gloves when handling agents.	Custody	Keep out of reach of children.
	May cause inflammation if in contact with eyes and skin. For more information, please follow the precautions for the agents.		If swallowed, rinse mouth immediately with water. Please do not drink water to force vomiting and seek medical attention in time.
Prohibit	The agent is not drinkable.	Prohibit	Do not discharge agents directly into drains, waterways or the ground.
	Not a drink. Please do not use it for purposes other than cleaning, so as not to endanger health.		May cause environmental pollution. Please dispose of in accordance with local regulations.

Before starting the cleaning, please carefully read the [Cleaning Method] and the [Precautions], [Usage Method], and [Emergency Measures] recorded on the agent package, and then use it correctly. Please observe the following [Cautions].

- Please read these instructions carefully before starting cleaning and follow these instructions correctly:
 - * After cleaning your hands, use a special ice shovel to remove all the ice from the storage bin. When taking ice, be sure to do it when all the ice cubes fall off and the machine is turned off.
 - * Please prepare a container for dissolving the agent in advance.
 - * Before using the container for dissolving the agent, please ensure that it is clean and free from dirt, oil stains and other unclean things.
 - * Dissolve the dose in a container and set aside.
- When the agent is spilled, please wipe it with a damp cloth.
- Wash the skin carefully after handling the agent.
- Please wash the work clothes you wear when handling agents.

■About agent

- use the agent recommended by the manufacturer.
- Please contact Hoshizaki sales company about agents.
- If you have any other questions, please contact the agent's manufacturer.
- Please prepare the agent according to the following proportions:

Model Name	cleaner dosage	Proportion of water
SRM-450AB-S	189.0g	2L
SRM-450AB-S-14	189.0g	2L

Model Name	sanitizer dosage	Proportion of water
SRM-450AB-S	47.3g	6L
SRM-450AB-S-14	47.3g	6L

■Cautions

- Regarding the order of use of the agents, please sterilize after washing. Wrong order or using only one of them will reduce cleaning and disinfection effectiveness.
- Do not eat, drink or smoke while using the agent.
- Please stir the agent and room temperature water fully to dissolve and pour it into the equipment.
- Slowly pour the dissolved agent into the sink. Please keep the agent from spilling during the pouring process.
- In the case that the agent is inconvenient to be put in, tools such as a funnel can be used to assist the input.
- Auxiliary tools used to put agents should be clean and free from dirt, oil stains and other unclean things.
- When the droplets of the injected agent hang on the ice maker, please wipe them with a rag to prevent corrosion.

■Cleaning/Sanitisation sequence

Please follow the order below.

Order of use	Kind of agent	use
1	cleaner (Citric acid concentration range 60~100%)	cleaning
2	sanitizer (Available chlorine concentration range 3~3.8%)	Sanitisation

■Cleaning/Sanitisation steps

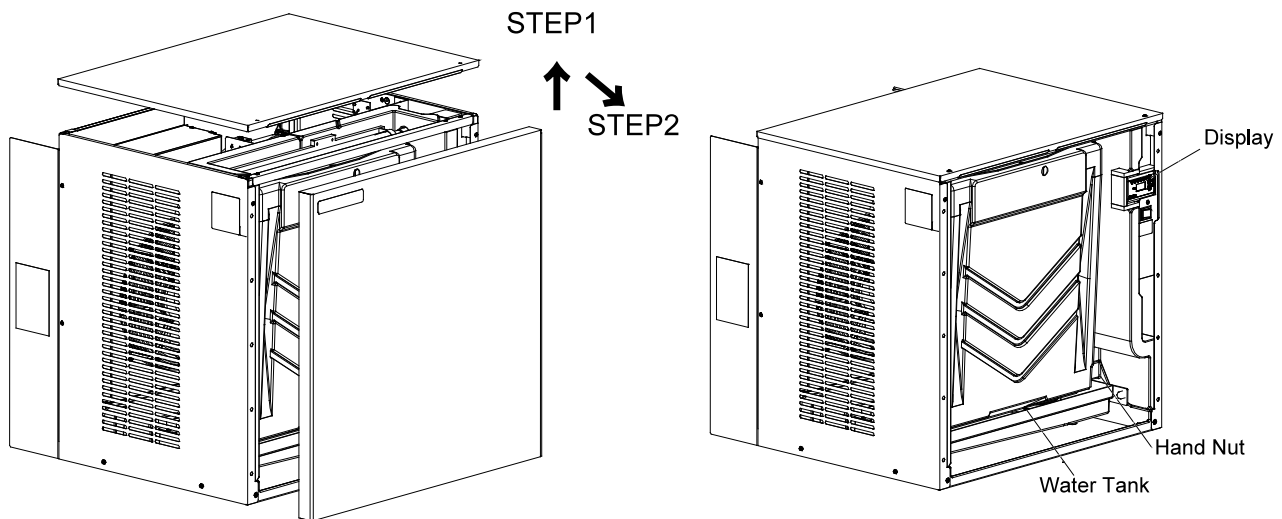
Steps
1.Remove the front panel, and after the ice cubes have all slipped off at the end of the harvest ice cubes cycle, turn off the power, open the storage bin door, and remove all the ice cubes. 2.Turn on. 3. Press and hold the "Set" button (3 seconds) to enter the cleaning mode. 4.After entering the cleaning mode, the ice maker starts to automatically enter the preparatory work. (preparation time is about 4 minutes) 5.When the display screen alternately shows "CLn↔In"(indication of adding agent liquid), the agent liquid can be put in. 6.Immediately put the agent liquid into the water tank after the instruction to put in the agent liquid appears. 7.About 15 minutes after the indication of adding the agent liquid appears, the ice maker will automatically start cleaning, and the display will switch to display the letters "CLn" at this time. 8.The ice machine washes and rinses automatically and takes about 80 minutes to complete. 9.After the entire cleaning process is complete, the ice machine will automatically switch to normal ice making mode. Remarks: After entering the "cleaning mode", the control panel will display "CLn", and at the same time, the "ZBL" and "TBL" indicators will flash. When the water level is insufficient, the "SWL" indicator light is on, indicating that the ice maker is adding water. The whole process does not require any manual operation of any buttons.

NOTICE

If washing and sanitizing steps are performed at the same time, follow the steps above twice.
After cleaning, rinse the inside of the bin.

ENGLISH

■How to remove the front panel and water tank



How to remove the front panel:

STEP1: Raise the front panel up to a certain position;

STEP2: Pull the front panel forward.

How to remove the water tank:

STEP1: Remove the hand nuts on both sides of the water tank;

STEP2: Move the water tank down a bit, avoiding the float;

STEP3: Pull the water tank forward.

2.PRECAUTIONS

- (1) The icemaker will have a larger "buzzing" sound when it begins to run because the operation is not stable at first time of powering-on or start. The sound will be reduced after stable.
- (2) It is normal that the temperature of compressor case is very high after the icemaker works for a long time.
- (3) The sound of compressor and the "clicking" sound of the compressor and the solenoid valve when icemaker turns on or off are normal phenomenon.
- (4) It is normal that the icemaking cycle becomes longer and the icemaking efficiency decreases when the air temperature is high.
- (5) The power consumption value on the nameplate is calibrated according to the national standard in the laboratory environment.-When the ambient temperature and water temperature are higher (such as summer air temperature and water temperature are higher), it is normal that the real consumption is higher than the value on the nameplate.
- (6) **Please contact the servicers to adjust the ice cubethickness sensor.**

3.FAULT AND TREATMENT

Please operate the machine according to the instructions. If there are any exceptions, please check the follow table firstly. If it cannot be solved, please contact the authorized distributor or maintenance agency of our company in time. So as not to cause a Joss to you.

Fault	Probable Cause	Processing method
No icemaking	The power switch is not allocated to the "ON" position.	Switch the power switch.
	The connector of the power cord is loose.	Fasten the power cord connector.
	The voltage is too high or too low.	Check and use the proposed voltage.
	The plug is not plugged.	Plug in the plug.
	The icemaker starts when storage bin is full.	Take out the ice.
	When the water supply is closed.	Check and connect to normal water pressure. Open the water valve to check the water intake.
	The filter of inlet hose or the inlet month is blocked.	Clean the filter net of the inlet hose.
	The sewerage stopper in the tank did not plug.	Plug the rubber plug of drain outlet.
Evaporator freezing	The evaporator is dirty.	Clean the evaporator.
	The ice is too thick.	Adjust the length of the screw of the ice thicknesssensor.
	The icemaker was not leveled.	Put the icemaker level.
	The water supply system is dirty.	Clean the water supply circuit.
	The filter of water supply valve or the entrance of the inlet hose is blocked.	Clean up the entrance of the water supply valve and inlet hose.
	The ambient temperature or water temperature is too low.	Raise the temperature.
Ice maker cannot remove ice	The liquid level float wire is not successfully connected to the control board.	Connect the wire.
	The liquid level float is inserted incorrectly.	Check the high and low level floats.
	Level float stuck.	Manually toggle or replace.
Bad quality of the ice (not strong or not clean)	Bad water quality.	Replace the purification and water treatment device.
	The evaporator is dirty.	Clean the evaporator.
The ice is sunken or incomplete, or the ice on the upper layer of the evaporator is incomplete.	The water level in the tank is too high or too low.	Check the liquid level float.
	The water pressure does not meet the requirements.	The water pressure range is between 0.07 ~0.55MPa.
	There is oil on the evaporator.	Scrubbing evaporator with a non - oily material cloth.
	The ice maker has not been leveled.	Put the ice maker flat.
Low ice production	The air filter or the condenser is blocked.	Clean air filters or condensers.
	The ambient temperature or water temperature is too high.	Adjust the ambient temperature and water temperature.
	The water pressure is too high or too low.	The water pressure range is between 0.07 ~0.55MPa.
Ice shape agomaly	The ice guide and the water tank are misplaced, and the water flow in the icemaker is serious.	Check whether the ice guide is properly installed in the water tank, and the water tank is firmly fixed in the storage bin of icemaker.
	The water spray tube is dirty.	Clean the water spray tube.
	The evaporator is dirty.	Clean the evaporator.
	Water is too hard or contains impurities.	Install water cleaner.
Excess noise level	Place unstably.	Put the ice maker flat.
	The icemaker contacts with other objects.	Avoid the icemaker contacts with other objects.
The melting speed of the ice in the storage bin is too fast	The drain system of icemaker is blocked.	Clean up the drain system.
External contains condensate	The door is not closed.	Close door completely.

4.BEFORE CALLING FOR SERVICE

⚠ WARNING

- *The power is supplied to the unit.
- *The water is turned on.
- *The air filter is clean.

For further assistance or advice, contact the local manufacturer's Maintenance Agency.

5.DISPOSAL

Comply with local regulations regarding disposal of this appliance and its refrigerant gas. Before you scrap the appliance, take off the door to prevent children trapped.

⚠ IMPORTANT

- ⚠ The insulation foaming agent used for the unit body contains a flammable gas cyclopentane. With this in mind, dispose of the product properly.

6.WARRANTY

The manufacturer warrants to the original owner / user that all products of the manufacturer's brand shall be free of defects in material and / or workmanship for the duration of the "warranty period". The warranty shall be effective for one year from the date of installation.

The manufacturer liability under the terms of this warranty are limited and shall exclude routine servicing, cleaning, essential maintenance and/or repairs occasioned by misuse and installations not in accordance with manufacturer guidelines.

Warranty repair should be completed by an approved manufacturer dealer or service agency using genuine manufacturer components.

To obtain full details of your warranty and the approved service agency, please contact your dealer / supplier or the nearest manufacturer's service office.

Repair Hotline: 400-720-6910

Email: service@hoshizaki.com.cn

SPECIFICATION

Model	SRM-450AB-S	SRM-450AB-S-14
Type	Air-cooled, rhombic ice cube	Air-cooled, rhombic ice cube
Power Supply	1 phase, 220~240V 60Hz	1 phase, 220~240V 60Hz
Electrical Consumption	1682W	1704W
Ice Production Per 24h	450kg(ambient10°C, water10°C)	450kg(ambient10°C, water10°C)
Dimensions	760mm(W)*620mm(D)*760mm(H)	760mm(W)*620mm(D)*760mm(H)
Refrigerant	R404A,800g	R404A,800g
Weight	New weight:79kg	New weight:79kg
Ambient Temperature	5 - 38°C	5 - 38°C
Water Supply Temperature	5 - 32°C	5 - 32°C
Water Supply Pressure	0.07 - 0.55MPa (0.7~5.5bar)	0.07 - 0.55MPa (0.7~5.5bar)
Voltage Range	198 - 242V	198 - 242V

Model	SRM-450AB-S	SRM-450AB-S-14
Type	Air-cooled, rhombic ice cube	Air-cooled, rhombic ice cube
Power Supply	1 phase, 220~240V 50Hz	1 phase, 220~240V 50Hz
Electrical Consumption	2095W	2064W
Ice Production Per 24h	450kg(ambient10°C, water10°C)	450kg(ambient10°C, water10°C)
Dimensions	760mm(W)*620mm(D)*760mm(H)	760mm(W)*620mm(D)*760mm(H)
Refrigerant	R404A,900g	R404A,900g
Weight	New weight:84kg	New weight:84kg
Ambient Temperature	5~38°C	5~38°C
Water Supply Temperature	5~32°C	5~32°C
Water Supply Pressure	0.07 - 0.55MPa (0.7 - 5.5bar)	0.07 - 0.55MPa (0.7 - 5.5bar)
Voltage Range	198 - 242V	198 - 242V

Note:The above specifications are for the representative models.

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