



# MAXX ICE

## MIM250 INSTRUCTION MANUAL



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**Asbury Foodservice reserves the right to make changes in specifications and design without prior notice.**

# ICE MAKER SAFETY

*Your safety and the safety of others are very important.*

We have provided many important safety messages in this manual and on your appliance. Always read and obey all safety messages.



This is the Safety Alert Symbol. This symbol alerts you to potential hazards that can injure or kill you and others. All safety messages will follow the Safety Alert Symbol and either the words “DANGER”, “WARNING” OR “CAUTION”.

**▲ DANGER ▲**

DANGER means that failure to heed this safety statement may result in death or severe personal injury.

**▲ WARNING**

WARNING means that failure to heed this safety statement may result in extensive product damage, serious personal injury, or death.

**CAUTION**

CAUTION means that failure to heed this safety statement may result in minor or moderate personal injury, or property or equipment damage.

All safety messages will alert you to what the potential hazard is, tell you how to reduce the chance of injury, and let you know what can happen if the instructions are not followed.

## IMPORTANT SAFETY INSTRUCTIONS

WARNING: To reduce the risk of fire, electric shock or injury, when using your ice maker, follow these basic precautions:

- Plug into grounded 3-prong outlet
- Do not remove grounding prong
- Do not use an adapter
- Do not use an extension cord
- Disconnect power before cleaning
- Disconnect power before servicing
- Replace all panels before operating
- Use 2 or more people to move and install ice maker

*SAVE THESE INSTRUCTIONS*

## IMPORTANT SAFEGUARDS



Before the ice maker is used, it must be properly positioned and installed as described in this manual, so read the manual carefully. Maxx Ice strongly recommends that you have a professional install your new machine. The warranty may be affected or voided by an incorrect installation. To reduce the risk of fire, electrical shock or injury when using the ice maker, follow basic precautions, including the following:

## ⚠ DANGER ⚠

- Plug into a grounded 3-prong outlet. Do not remove grounding prong, do not use an adapter, and do not use an extension cord.
- It is recommended that a separate circuit, serving only your ice maker, be provided. Use receptacles that cannot be turned off by a switch or pull chain.
- Do not connect or disconnect the electric plug when your hands are wet.
- Never unplug the ice maker by pulling on the power cord. Always grip the plug firmly and pull straight out from the outlet.
- Never clean ice maker parts with flammable fluids. Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance. The fumes can create a fire hazard or explosion.
- Before proceeding with cleaning and maintenance operations, make sure the power line of the unit is disconnected and the water line is shut off. (*EXCEPTION: When cleaning the machine's ice making and water systems, see pages 18 – 19.*)
- Before operating, put all the enclosure panels back into their original places.
- Do not touch the evaporator with your hand when the machine is operating.
- Unplug the ice maker or disconnect power before cleaning or servicing. Failure to do so can result in electrical shock or death.
- Do not attempt to repair or replace any part of your ice maker unless it is specifically recommended in this manual. All other servicing should be referred to a qualified technician.

## ⚠ WARNING

- Use two or more people to move and install ice maker. Failure to do so can result in back or other injury.
- To ensure proper ventilation for your ice maker, the front of the unit must be completely unobstructed. Choose a well-ventilated area with temperatures above 50°F (10°C) and below 100°F (38°C). This unit **MUST** be installed in an area protected from the elements, such as wind, rain, water spray or drips.
- The ice maker should not be located next to ovens, grills or other sources of high heat.
- The ice maker must be installed with all electrical and water connections in accordance with state and local codes. A standard electrical supply, properly grounded in accordance with the National Electrical Code and local codes and ordinances, is required.
- Do not kink or pinch power supply cord or drain lines between ice maker and cabinet.
- The fuse (*or circuit breaker*) size should be 15 amperes.
- It is important for the ice maker to be leveled in order to work properly. You may need to make several adjustments to level it.
- All installations must be in accordance with local plumbing code requirements.
- Make certain that the hoses are not pinched or kinked or damaged during installation.
- Check for leaks after connection.
- Remove the packing materials and clean the ice maker before using.
- Turn on the water supply tap before switching on the ice maker. Never turn the water supply tap off when the ice maker is working.
- Except to take ice from the unit, keep the door closed in order to reduce ice melting and to promote proper ice formation.
- Although the unit has been tested at the factory, due to long-term transit and storage, the first

batch of cubes must be discarded.

- If the ice maker will not be used for a long time, before the next use it must be thoroughly cleaned. Follow carefully any instructions provided for cleaning or use of sanitizing solution. Do not leave any solution inside the ice maker after cleaning.
- DO NOT touch the condenser fins. The condenser fins are sharp and can be easily damaged.
- DO NOT use solvent-based cleaning agents or abrasives on the interior. These cleaners may transmit taste to the ice cubes, or damage or discolor the interior.
- The ice machine cleaner contains acids. DO NOT use or mix with any other solvent-based cleaner products. Use rubber gloves to protect hands. Carefully read the material safety instructions on the container of the ice machine cleaner.
- Do not use this apparatus for other than its intended purpose.

## ***SAVE THESE INSTRUCTIONS***

### **Electrical Connection**

Do not, under any circumstances, cut or remove the third (ground) prong from the power cord. For personal safety, this appliance must be properly grounded. The power cord of this appliance is equipped with a 3-prong grounding plug that mates with a standard 3-prong grounding wall outlet to minimize the possibility of electric shock hazard from the appliance. Have the wall outlet and circuit checked by a qualified electrician to make sure the outlet is properly grounded. When a standard 2-prong wall outlet is encountered, it is your responsibility and obligation to have it replaced with a properly grounded 3-prong wall outlet.

The ice maker should always be plugged into its own individual electrical outlet which has a voltage rating that matches the rating label on the appliance. This provides the best performance and also prevents overloading house wiring circuits which could cause a fire hazard from overheated wires. Never unplug your ice maker by pulling on the power cord. Always grip the plug firmly and pull straight out from the outlet. Repair or replace immediately all power cords that have become frayed or otherwise damaged. Do not use a cord that shows cracks or abrasion damage along its length or at either end. When moving the ice maker, be careful not to damage the power cord.

### **Extension Cord**

Because of potential safety hazards under certain conditions, it is strongly recommended that you do not use an extension cord with this ice maker.

## Technical Information

<b>Model:</b>	MIM250
<b>Electrical input:</b>	115VAC ~ 60Hz
<b>Power consumption:</b>	9.4 kW • h / 100 lbs of ice
<b>Ice-making/Ice-harvest rated current:</b>	9.2A/12A
<b>Refrigerant:</b>	R404a, 22.9 oz.
<b>High/Low side pressure:</b>	350psig/190psig
<b>Unit width x depth x height:</b>	24" x 24" x 39"
<b>Unit weight:</b>	136 lbs maximum
<b>Ice storage capacity:</b>	75 lbs maximum
<b>Ice-making capability:</b>	250 lbs/day*
<b>Ice shape:</b>	Cube
<b>Ice cube dimensions:</b>	1" x 1" x 3/4"
<b>Ambient temperature range for best operation:</b>	50°F – 100°F
<b>Optimum temperature range for feed water:</b>	41°F – 90°F

\*The actual quantity of ice produced per day can vary with room and water conditions.

The technical data and performance index listed above should be used for reference only. They are subject to change.

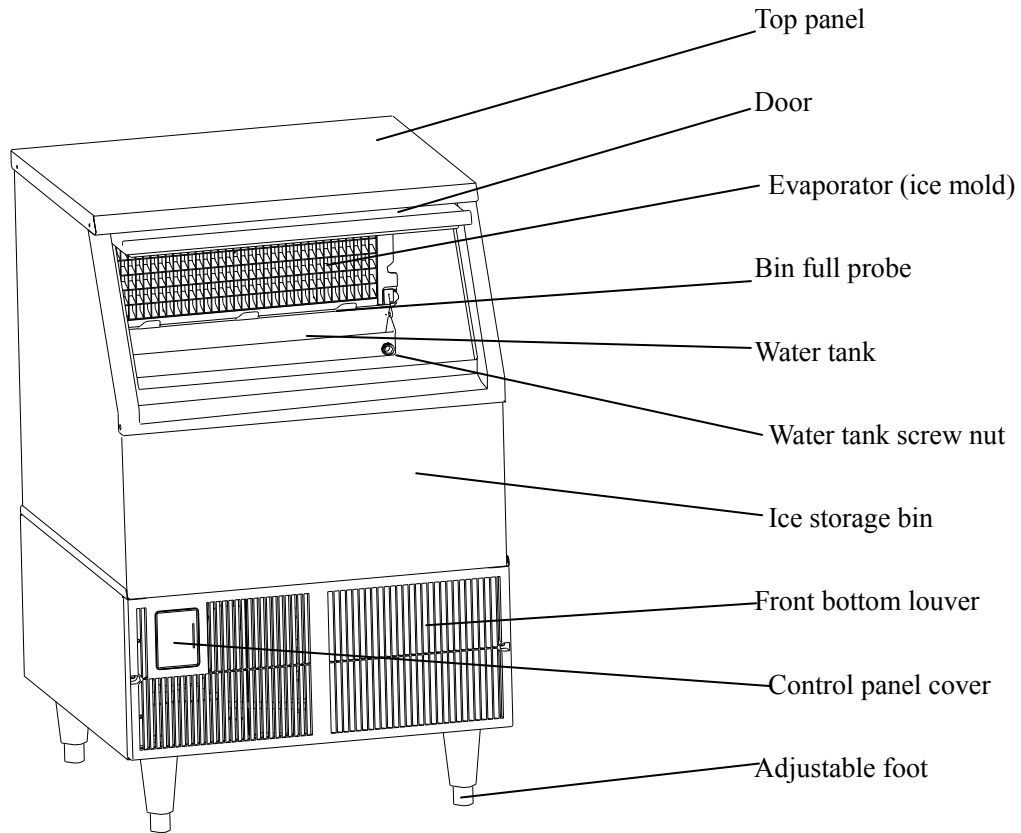
This product has been tested and certified to NSF standard 12 by NSF International.

## Introduction

Maxx Ice model MIM250 Ice Cube Machine produces hard, crystal-clear, gourmet cube ice, and offers convenience for homeowners and hotel guests. An insulated ice storage bin is built in. This user's manual is intended as a resource for persons installing, using and servicing model MIM250. It contains valuable information on safety and maintenance. Maxx Ice strongly recommends that this manual be kept in a place where it can be accessed when needed. Every Maxx Ice Ice Cube Machine is designed and manufactured according to the highest standards of safety and performance. It meets or exceeds the safety standard of UL563 and sanitation standard NSF12.

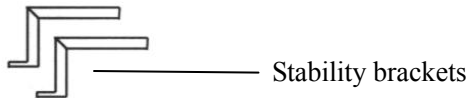
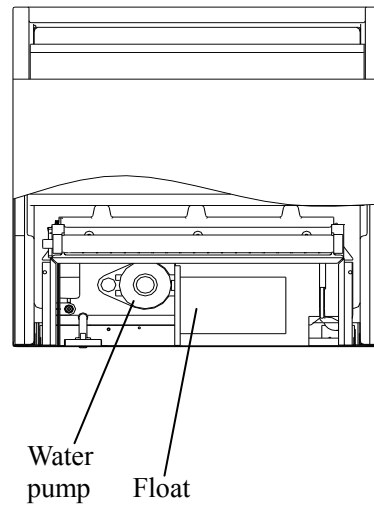
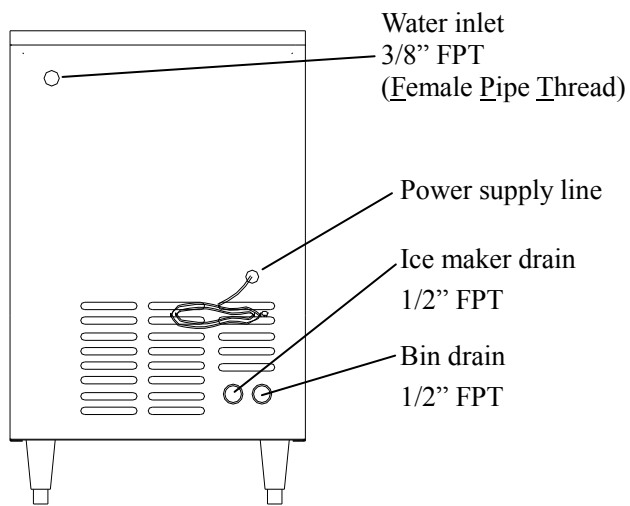
Asbury Foodservice assumes no liability or responsibility of any kind for products manufactured by Maxx Ice that have been altered in any way, including the use of any parts and/or other components not specifically approved by Asbury Service Warranty & Parts. Maxx Ice reserves the right to make design changes and/or improvements at any time. Specifications and designs are subject to change without notice.

# Component Locations



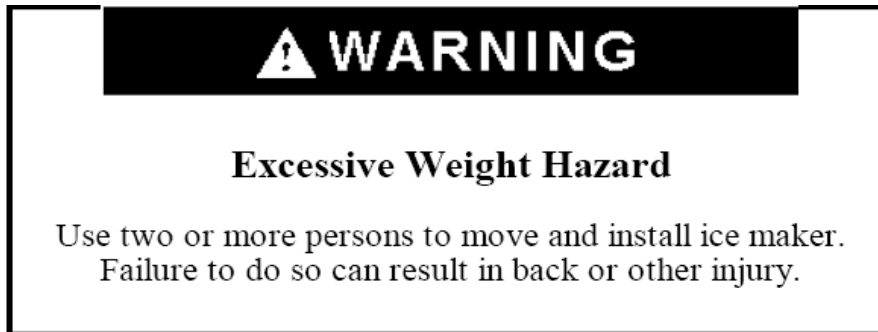
## Top view

## Back view



# Ice Maker Installation

## Unpacking



### Remove packaging materials

*IMPORTANT: Do not remove any permanent instruction labels or the data label on your ice maker.*

Remove tape and glue from your ice maker before using,

- To remove any remaining tape or glue, rub the area briskly with your thumb. Tape or glue residue can also be easily removed by rubbing a small amount of liquid dish soap over the adhesive with your fingers. Wipe with warm water and dry.
- Do not use sharp instruments, rubbing alcohol, flammable fluids, or abrasive cleaners to remove tape or glue. These products can damage the surface of your ice maker.
- Leave lowermost foam panel in place until after the adjustable feet are attached.

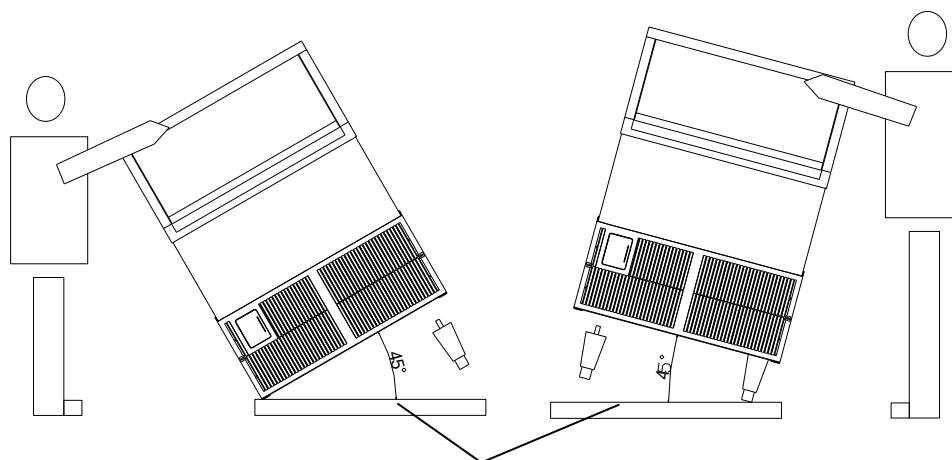
### Cleaning before use

After you remove all tape and glue from the machine, clean the inside of your ice maker before using it. See “Interior Cleaning” in the *Cleaning and Maintenance* section.

### Installing the adjustable feet

*At least two persons are required to install the adjustable feet.*

You will find four adjustable feet packed in the ice storage bin. To install, tilt one side of the unit and screw in two adjustable feet, as illustrated. (*IMPORTANT: Do not tilt the unit more than 45 degrees.*) Then tilt the other side and screw in the remaining two feet.



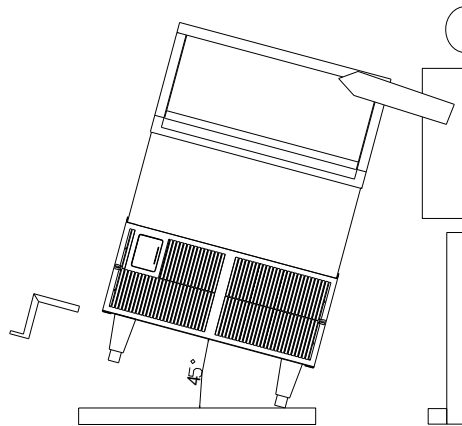
Lower foam panel



## ***Installing the stability brackets***

*This operation requires at least two persons.*

If you wish to install the ice maker in a free-standing mode rather than enclosed, it is necessary to attach the two metallic stability brackets that can be found packed inside the ice storage bin. Keeping the machine tilted to the right, but not more than 45°, attach one bracket to the center of the underside of the ice maker with two screws (supplied). See illustration below. Set the unit back on its four feet; tilt it forward in order to screw in the second bracket on the underside of the unit opposite the first bracket. Level the ice maker. This operation will stabilize it for free-standing operation.



## ***Location Requirements***

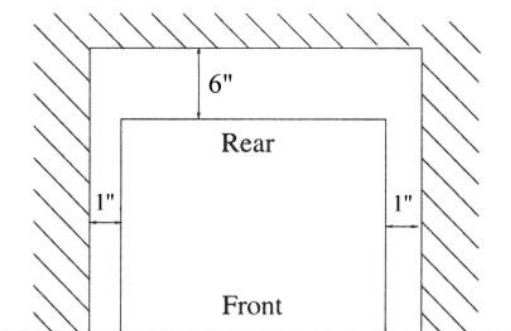
*This ice maker should be installed by qualified personnel.*

### ***NOTICE:***

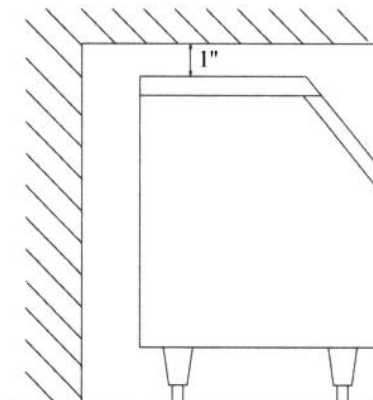
- 1. Before setting the ice maker inside a cabinet, connect the water supply pipe correctly. Insert the drain hose into the drain, and connect the power supply line.*
- 2. Do not kink or pinch the power supply line between the ice maker and wall or cabinet.*

## **Installation clearance**


Top view



Side view






- To ensure proper ventilation for your ice maker, the front of the unit must be completely unobstructed.
- When installing the ice maker under a counter, follow the recommended spacing dimensions shown. Allow at least 6" (150 mm) clearance at rear, and 1" (25 mm) at the sides and at the top for proper air circulation. The installation should allow the ice maker to be pulled forward for servicing if necessary.
- Choose a well-ventilated area with temperatures above 50°F (10°C) and below 100°F (38°C). This unit **MUST** be installed in an area protected from the elements, such as wind, rain, water spray or drips.
- The unit should not be located next to ovens, grills or other sources of high heat.
- Installation of the ice maker requires a cold water supply inlet of 3/8" (9.5 mm) soft copper tubing with a shut-off valve.
- The ice maker requires a continuous water supply with a minimum pressure of 15 psig and a static pressure not to exceed 80 psig. The temperature of the water feeding into the ice maker should be between 41°F (5°C) and 90°F (32°C) for proper operation.

 <b>WARNING</b>
<p>Normal operating ambient temperature should be between 50°F (10°C) and 100°F (38°C). Normal operating water temperature should be between 41°F (5°C) and 90°F (32°C). Operation of the ice maker for extended periods outside of these normal temperature ranges may affect production capacity.</p>

- **IT IS STRONGLY RECOMMENDED TO USE A WATER FILTER. A FILTER, IF IT IS OF THE PROPER TYPE, CAN REMOVE TASTE AND ODORS AS WELL AS PARTICLES AND CAN PROLONG THE LIFE OF THE MACHINE.**
- The ice maker must be installed with all electrical and water connections in accordance with state and local codes.
- The unit should be located on a firm and level surface. It is important for the ice maker to be level in order to work properly. If needed, you can adjust the height of the ice maker by rotating the feet. See the *Leveling the Ice Maker* section.

### ***Electrical Requirements***

 <b>DANGER</b> 

<p><b>Electrical Shock Hazard</b></p> <p>Plug into a grounded 3-prong outlet.          Never remove the grounding prong from the plug.          Never use an adapter.          Never use an extension cord.          Failure to follow these instructions can result in fire, electrical shock or death.</p>

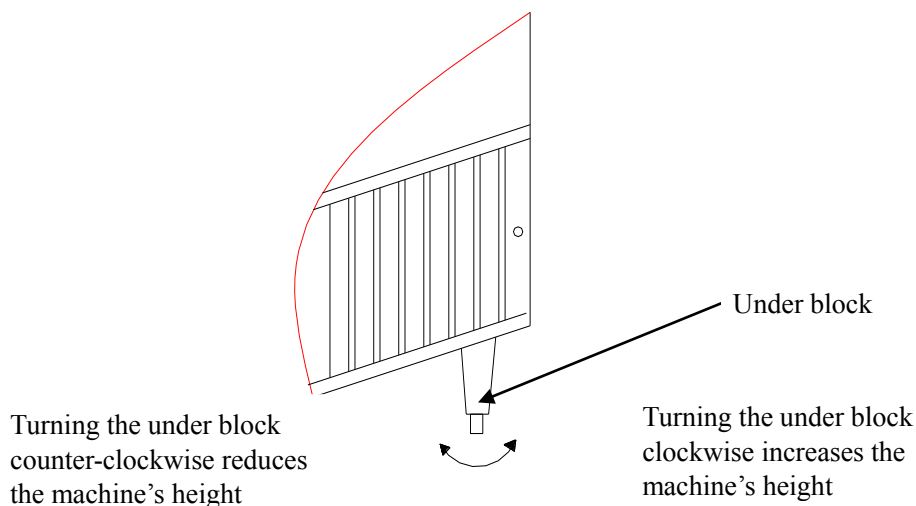
Before you move your ice maker into its final location, it is important to make sure you have the proper electrical connection. A standard electrical supply, properly grounded in accordance with the National Electrical Code and local codes and ordinances, is required. The ice maker should always be plugged into its own individual electrical outlet. It is recommended that a separate circuit, serving only your ice maker, be provided. Use receptacles that cannot be turned off by a switch or pull chain. The fuse (or circuit breaker) size should be 15 amperes.

### **Recommended grounding method**

For your personal safety, this appliance must be grounded. It is equipped with a power supply cord having a 3-prong grounding plug. To minimize possible shock hazard, the cord must be plugged into a mating 3-pronged and grounding-type wall receptacle, grounded in accordance with the National Electrical Code and local codes and ordinances. If a mating wall receptacle is not available, it is the personal responsibility of the customer to have a properly grounded, 3-prong wall receptacle installed by a qualified electrician.

### ***Leveling the Ice Maker***

Once the ice cube machine is set in its enclosure, if the base is not level, you can adjust the feet by rotating the under block (see below) until the machine is level.



It is important for the ice maker to be leveled, or water may not flow properly through the evaporator (*ice mold*). Ice production will be lower than normal, and operation will be noisy.

Adjust the height of the under block of the adjustable foot, rotating it to the right (*counter-clockwise*) to lower that side of the ice maker. Turning the under block to the left (*clockwise*) raises that side of the ice maker.

### ***Water Supply***

The water supply should be ready at the point of installation. The water supply pressure should be a minimum of 15 psig with a static pressure not more than 80 psig. (*A wall outlet directly behind the ice maker will make installation easier.*)

*We strongly recommended the use of a water filter. A filter, if it is of the proper type, can remove taste and odors as well as particles and can prolong the life of the machine.*

**IMPORTANT:**

1. All installations must be in accordance with local plumbing code requirements. Professional installation is recommended.
2. Water inlet fitting: 3/8" FPT (Female Pipe Thread); drain line connection: 1/2" FPT.
3. Make certain you have a suitable water supply hose and two suitable drain hoses, and that the hoses are not pinched, kinked or damaged during installation.
4. Check for leaks after connection.

**Tools required:** 3/8" open-end wrench, Phillips screwdriver

**Connecting the water line:**

1. Turn off main water supply.
2. Find a water supply line near the installation location. The distance should be less than the length of the water supply hose.
3. A shut-off valve must be installed to the main water supply.
4. Connect the water supply hose to tap and water inlet valve. Tighten firmly by hand, then one-half turn with wrench.
5. Connect one water drain hose to *ice maker drain* line connection. Tighten firmly by hand, then one-half turn with wrench.
6. Connect another water drain hose to *bin drain* line connection. Tighten firmly by hand, then one-half turn with wrench.
7. Turn on main water supply and tap. Check for water supply connection leaks. Tighten every connection (including connections at the water inlet).

NOTE: If using a water filter, be sure to follow the filter manufacturer's directions.

**Installation Types**

This ice cube machine has been designed to be enclosed (as under a cabinet). It can also be free-standing (using the supplied stability brackets) or built-in (sealed to the floor). In every case, there must be adequate air space around the unit for ventilation purposes (see diagrams on page 8).

**Enclosed Installation:**

An enclosed installation will allow you to install the ice cube machine under a counter or in a kitchen cabinet provided the required clearance space around the ice maker is respected. You must follow the stated instructions for

- a. Electrical requirements
- b. Water supply

**Free-standing Installation:**

The ice cube machine can be installed to be free-standing in any place you desire provided you have access to a water supply. This installation has the same requirements as an enclosed installation, plus you must also follow the stated instructions for "*Installing the Stability Brackets*".

**Built-in Installation:**

If this method of installation is chosen, it will still be necessary to allow adequate ventilation space around the unit. The following additional items must be observed.

1. Place the ice cube machine in front of the installation location. Raise the machine and place it on the floor or on a platform depending on your installation requirements.
2. The water supply line must be plumbed before connecting to the ice maker.
3. Turn on the main water supply and tap. Check for water supply connection leaks. Tighten every connection (*including connections at the water inlet*).
4. If the electrical outlet for the ice maker is behind the cabinet, plug in the ice maker.
5. Push the ice maker into position.
6. Seal all around the cabinet to the floor with an approved caulking compound if legs have been removed.

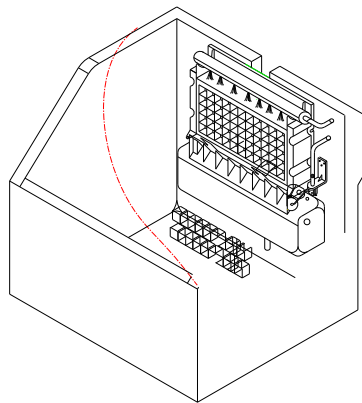
# Operation

## *Final Check List before Operation*

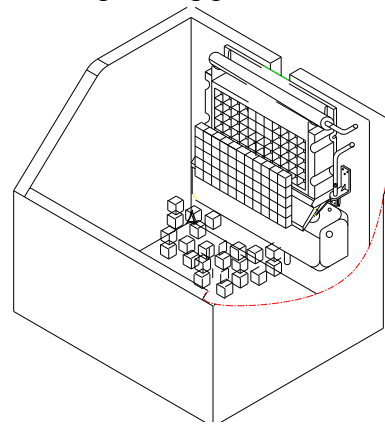
1. Have all packing materials and tape been removed from the interior and exterior of the ice maker?
2. Did you clean the ice storage bin? (See pages 15 - 17.)
3. Have the installation instructions been followed, including connecting the machine to water and electricity?
4. Has the machine been leveled?
5. Is the ice cube machine in a site where the ambient temperature is between 50°F (10°C) and 100°F (38°C) and the water temperature between 41°F (5°C) and 90°F (32°C) all year round?
6. Has the water supply pressure been checked to ensure a minimum of 15 psig with a static pressure not to exceed 80 psig?
7. Is there a clearance of at least 6" (150 mm) at the rear, 1" (25 mm) at the top and sides for proper air circulation?
8. Has the power supply voltage been checked or tested against the nameplate rating? And has proper grounding been installed for the ice cube machine?
9. Is the ice cube machine plugged in?
10. Have you turned on the main water supply and the tap?
11. Have you checked for leaks at all water supply connections?

## *Operating Method*

1. Turn on the water tap, letting the water enter the water tank, then turn the power switch ON. The power switch's indicator lamp lights, as well as the other three indicator lights on the control panel.
2. After about 3 minutes, the ice maker will automatically proceed to the ice-making stage, and the sound of flowing water will be heard. Only the red power switch lamp and the green Ice Making LED will be on.
3. When the batch of ice has been fully formed, ice will automatically fall into the ice storage bin. The yellow Ice Harvest LED and power switch LED are on, and the other two LEDs are off.
4. When the ice storage bin is full, the sheet of cubes will not fall completely and will hold the bin full probe open. The machine is in the bin full mode, and the red Bin Full LED is lit. The power switch LED is on and the other two LEDs are off.
5. The unit starts making ice again automatically approximately 3 minutes after ice cubes are removed. As ice is removed, the bin full probe swings back to operating position.



Ice-making stage



Ice harvest stage

### **IMPORTANT:**

- Although the unit has been tested and cleaned at the factory, due to long-term transit and storage, the first batch of cubes must be discarded.

- Never turn the water supply tap off when the ice maker is working.
- Never touch the evaporator when the machine is running.
- Except to take ice from the unit, keep the door closed to reduce melting and insure proper ice formation.

### ***How the Machine Makes Ice***

When the power switch is first turned ON, the machine is in Stand-by mode. After about 3 minutes, it will automatically proceed to the ice-making stage.

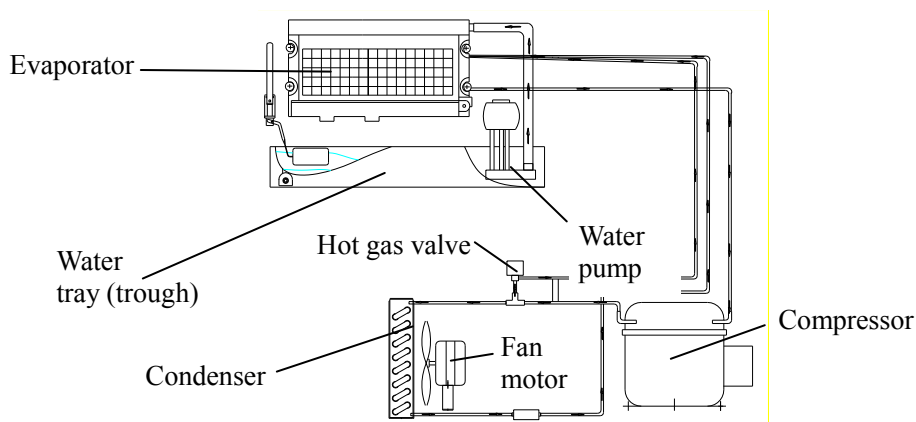
There are two distinct cycles: Freeze and Harvest. During the Freeze cycle, water flows to the evaporator surface. In the Harvest cycle, the ice is released and water enters the machine. A complete cycle can take 15 to 40 minutes, depending on ambient temperature and operating conditions.

**Freeze:** During the Freeze cycle the compressor is pumping refrigerant, the fan motor is blowing air, and the water pump is circulating water. When the batch of ice has been fully formed, the ice maker stops the Freeze cycle and begins the Harvest cycle.

**Harvest:** During the Harvest cycle the compressor is still operating, but the water pump has stopped. The hot gas valve opens, diverting hot refrigerant gas into the evaporator. The gas warms the evaporator, causing the cubes to slide as a unit off the evaporator and into the storage bin. The Freeze cycle will restart when all the cubes drop into the bin.

### **How the machine uses water:**

The ice cube machine begins with a fixed charge of water that is contained in the water tank. As the water flows to the freezing evaporator surface, the water will freeze and stick to the ice cube molds. During the ice-making process, fresh water enters the water tank continuously as the water from the trough freezes continuously on the evaporator.



### ***Normal Sounds***

Your new ice cube machine may make sounds that are unfamiliar to you. Most of the new sounds are normal. Hard surfaces like the floor and walls can amplify the sounds. The following describes the kinds of sounds that might be new to you and what may be causing them.

- Rattling noises may come from the flow of the refrigerant or the water line. Items stored on top of the ice cube machine can also make noises.
- The high-efficiency compressor may make a pulsating or high-pitched sound.
- Running water may make a splashing sound.

- You may hear air being forced over the condenser by the condenser fan.
- During the Harvest cycle, you may hear the sound of ice cubes falling into the ice storage bin.

### ***Preparing the Ice Cube Machine for Long Storage***

If the ice cube machine will not be used for a long time, or it is to be moved to another place, it will be necessary to drain the system of water.

1. Shut off the water supply at the main water source.
2. Disconnect the water supply line from the water inlet.
3. Shut off the power supply at the main electrical power source.
4. Screw off the water tank screw nut and drain out water completely, then tighten the nut after finishing. Dry the tank.
5. Remove the ice from the ice storage bin. Dry the bin.
6. Leave the door open to allow for circulation and to prevent mold and mildew.
7. Leave the water supply line and power cord disconnected until ready to reuse.

#### ***IMPORTANT:***

- *Do not touch the power plug when your hands are wet.*
- *Never unplug the unit by pulling on the cord.*

## **Cleaning and Maintenance**

### **CAUTION**

If the ice maker is left unused for a long time, before the next use it must be thoroughly cleaned. Follow carefully any instructions provided for cleaning or use of sanitizing solution. Do not leave any solution inside the ice maker after cleaning.

Periodic cleaning and proper maintenance will ensure efficiency, top performance, and long life. The maintenance intervals listed are based on normal conditions. You may want to shorten the intervals if you have pets or there are other special considerations.

#### **What shouldn't be done?**

Never keep anything in the ice storage bin other than ice: objects like wine and beer bottles are not only unsanitary, but the labels may slip off and plug up the drain.

#### **What should be kept clean?**

There are 4 things to keep clean:

1. The exterior
2. The interior
3. Water distribution tube
4. The ice-making system

## **WARNING**

Before proceeding with cleaning and maintenance operations, make sure the power line of the unit is disconnected and the water line is shut off. (EXCEPTION: Cleaning of ice-making system)

### *Exterior Cleaning*

Commercial grades of stainless steel are susceptible to rusting if not properly maintained. It is important that you properly care for the stainless steel surfaces of your ice machine and bin to avoid the possibility of rust or corrosion. Use the following recommended guidelines for keeping your stainless steel looking like new:

1. Clean the stainless steel thoroughly once a week. Clean frequently to avoid build-up of hard, stubborn stains. Also, hard water stains left to sit can weaken the steel's corrosion resistance and lead to rust. Use a nonabrasive cloth or sponge, working with, not across, the grain.
2. Don't use abrasive tools to clean the steel surface. Do not use steel wool, abrasive sponge pads, wire brushes or scrapers to clean the steel. Such tools can break through the "passivation" layer - the thin layer on the surface of stainless steel that protects it from corrosion.
3. Do not use cleaners that use chlorine or chlorides. Do not use chlorine bleach or products like Comet to clean the steel. Chlorides can also break down the surface layer and can cause rusting.
4. Rinse with clean water. If chlorinated cleansers are used, you must thoroughly rinse the surface with clean water and wipe dry immediately.
5. Use the correct cleaning agent. The table below lists the recommended cleaning agents for common stainless steel cleaning problems:

<b>Cleaning Activity</b>	<b>Cleaning Agent</b>	<b>Method of Application</b>
Routine Cleaning	Soap, Ammonia, Windex or detergent with water, Fantastik, 409, Spic'n Span liquid are approved for stainless steel	Apply with a clean cloth or sponge. Rinse with clean water and wipe dry
Removing grease or fatty acids	Easy-Off or similar oven cleaners	Apply generously; allow to stand for 15-20 minutes. Rinse with clean water. Repeat as required.
Removing hard water spots and scale	Vinegar	Swab or wipe with clean cloth. Rinse with clean water and dry



## ***Interior Cleaning***

It is the USER'S RESPONSIBILITY to see that the unit is properly maintained. It is always preferable and less costly in the long run, to avoid possible down time by keeping it clean and adjusted as needed; and by replacing worn components before they can cause failure. The following is a list of recommended maintenance that will help keep the machine running with a minimum of problems.

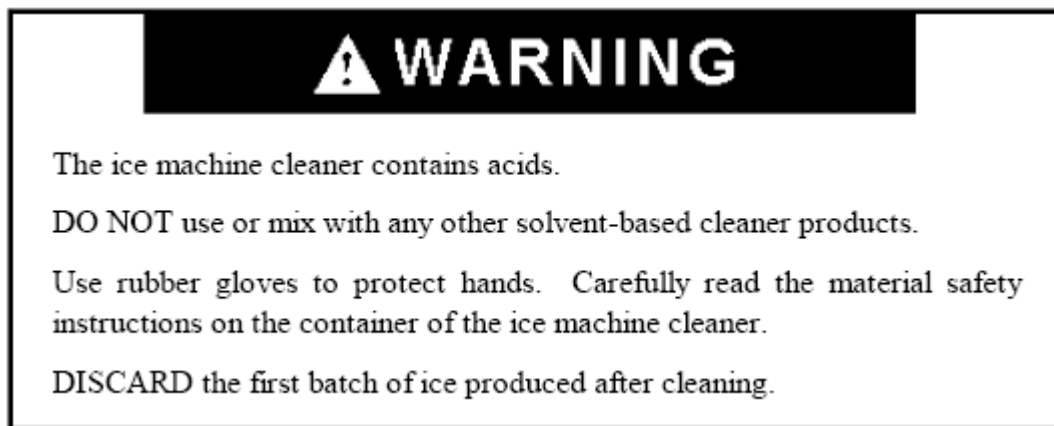
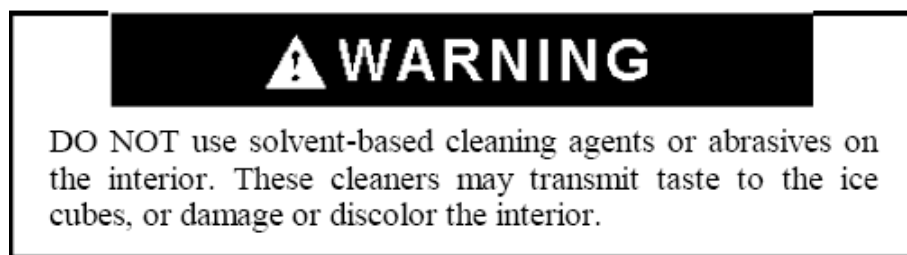
Maintenance and Cleaning should be scheduled at a minimum of twice per year.

Note: Electrical power will be ON when performing the following cleaning instructions.

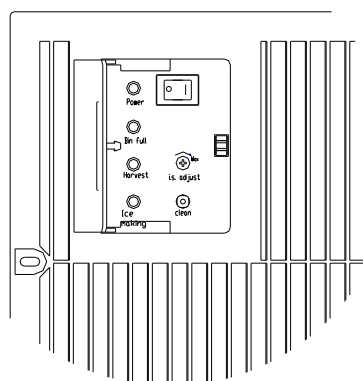
1. Remove ice machine front panel.
2. Make sure all ice is off evaporator. If ice is being made, initiate harvest or wait for cycle completion, then turn machine off at the power switch.
3. Remove all ice cubes from the storage bin.
4. Keep the ice maker connected to the water supply. Pour 8 oz. of Nickel-Safe Ice Maker Cleaner Solution into the water tank.
5. Turn on the power switch. Within 3 minutes press the **Clean** button. The machine will go into the cleaning mode automatically.
6. The ice-making system cleaning cycle will continue for 30 minutes unless you press the power switch (you can press the power switch to stop the cleaning cycle any time during the 30 minutes).
7. Press the **Clean** button for 6 seconds and the water will be purged and the green and yellow LEDs will be blinking together. Allow to drain for at least two minutes and press the OFF button.
8. Remove the splash curtain and inspect the evaporator and water spillway to ensure all mineral residue has been removed. If necessary, wipe the evaporator, spillway and other water transport surfaces with a clean soft cloth to remove any remaining residue. If necessary, remove the water distribution tube, disassemble and clean with a bottlebrush. Reassemble all components and repeat steps 4 through 7 as required to remove residue
9. Repeat step 5-7 WITHOUT ADDING ICE MACHINE CLEANER above three times to rinse the ice-making system thoroughly. This will complete ice-making system cleaning.
10. Prepare 1½ to 2 gallons (5.7 to 7.5 liters) of approved (EPA/FDA) sodium hypochlorite food equipment sanitizer to form a solution with 100 to 200 max. ppm free chlorine yield.
11. Add enough sanitizing solution to fill the water trough to overflowing and begin the cleaning cycle as indicated in 5 (without adding the CLEANER), and allow circulation to occur for 5 minutes and inspect all disassembled fittings for leaks. During this time, wipe down all other ice

machine splash areas, plus the interior surfaces of the bin, deflector and door with the remaining sanitizing solution. Inspect to insure that all functional parts, fasteners, thermostat bulbs (if used), etc. are in the correct position.

12. Press the **Clean** button for 6 seconds and the water will be purged and the green and yellow LEDs will be blinking together. Allow to drain until sanitizer has been flushed down the drain and continue to purge to the diluted sanitizing solution for another 1 to 2 minutes. Then press the controller to OFF
13. Turn the machine ON and replace the front panel.
14. Discard the first two ice harvests. **DO NOT USE** any ice produced from the cleaning solution.



## Control Panel (located at left side of front bottom louver panel)



Push the control panel cover to open it. The control panel includes one power switch, one button, one adjustable screw and four indicator lights.

### **Operation of the control panel:**

1. When the unit is plugged in and the power switch is turned on, the power indicator and the other three indicator lights are all on.
2. After 3 minutes for water inlet, the ice machine will start to make ice automatically. Only the power and ice-making indicators will be on.
3. During harvesting, the harvest indicator light is on and the ice-making indicator is off. When the ice storage bin is full, only the bin-full indicator and power indicator are on.
4. If the Clean button is pressed during the ice-making mode, it will be ignored. The ice-making will continue.
5. When you want to clean the machine, turn off the power switch first, then turn it on again. Press the **Clean** button within 3 minutes and the ice maker will start the cleaning mode, with harvest and ice-making indicators blinking. After 30 minutes, the cleaning mode stops and the harvest indicator and ice-making indicators are on steady. If you want to restart the ice-making process after cleaning, turn off the power switch first and drain the waste water, then turn on the power switch again and the machine will automatically go into the ice-making process.
6. If you want to interrupt the cleaning mode before it is finished, do not press the **Clean** button again. Instead, turn the power switch off. This stops the cleaning mode.
7. If the machine is on but only the power indicator light is lit, this may indicate that not enough water is reaching the system, that the water pump is not functioning, or some similar problem. First check the level in the water tank, and then examine the water pump, etc.
8. If the unit is connected to the power supply but no visual indicator lights up when the power switch is turned on, the fuse in the control panel box may need to be replaced.

### **Descriptions of LEDs and buttons:**

1. **Bin Full (red) LED:** Bin Full indicator light  
When this LED is on, the ice storage bin is full of ice cubes or there is something obstructing the bin full probe. The unit will stop working. When ice cubes are removed from the ice storage bin, clearing the bin full probe, the red LED will flash for 3 minutes. Then the unit will restart and return to the ice-making mode.
2. **Ice Making (green) LED:** Ice Making indicator light:  
When this LED is on, the unit is working in the ice-making mode. When the green LED is flashing, the unit is working in the ice-making mode but approaching the ice harvest mode.
3. **Ice Harvest (yellow) LED:** Ice Harvest indicator light:  
When this LED is on, the unit is working in the ice harvest mode controlled by the bin full probe.
4. **I. S. Adjust screw:** Ice size adjustment:  
For service only. Adjustment of this screw by unqualified persons can damage the machine's controls. It will not change the basic size and shape of the ice.

**5. Power Switch:**

This is the main switch. When it is turned on, the unit goes into Stand-by mode for about 3 minutes, with all LEDs on, then starts to make ice cubes automatically, switching between ice-making and ice harvest modes.

**6. CLEAN Button:**

While the unit is in Stand-by mode (all LEDs on steady), you can press CLEAN to start the Automatic Clean procedure. The green and yellow LEDs will flash together.

*NOTE: When you finish working with the control panel, close the cover.*

**IMPORTANT:**

- **Avoid letting water contact the control box.**
- **When you finish working with the control panel, close the cover.**

# Troubleshooting

## *Before Calling for Service*

If the unit appears to be malfunctioning, read through the OPERATION section of this manual first. If the problem persists, check the Troubleshooting Guide below and on the following page. The problem may be something very simple that can be solved without a service call.

<b>Problem</b>	<b>Possible Cause</b>	<b>Probable Solution</b>
The machine doesn't operate.	The ice maker is unplugged.	Plug the ice maker in.
	The fuse is blown.	Replace fuse. If problem reoccurs, call for service to check for a short circuit in the ice maker.
	The ice maker power switch is OFF.	Turn the ice maker power switch to ICE (ON)
	The ice storage bin is full of ice.	Remove some ice; make sure the ice-full probe is free of ice.
The water doesn't feed in after the ice maker starts.	The water supply tap is turned off.	Turn on the water supply tap.
	The water supply line is not connected properly.	Reconnect the water supply line.
Machine makes ice, but ice storage bin does not fill up with ice.	Condenser may be dirty.	Clean the condenser air screen.
	The air flow to the ice maker may be obstructed.	Check the installation
	The ambient temperature and water temperature are high, or the machine is near some heat source.	Check the installation.
Water is leaking from the unit.	A few water drops fall to the floor when you open the door to take out ice from the ice storage bin.	Normal condensation on the door or some water together with ice. Take care when you take out ice.
	Water supply connection leaking.	Tighten fitting. See "Connecting the Water Line".
The ice cubes are not completely formed when being dumped.	The sprinkler is blocked.	Clean the sprinkler. See "Interior Cleaning"
Cubes are partially formed or are white at the bottom	Not enough water in the trough	Check if the water supply pressure is below 15 psig
		Check water supply; filter may be restricted.
		Check for a water leak at the water trough.
Noise during operation.	The feet are not leveled and locked.	Level and lock the feet. See "Leveling the Ice Maker"
	Certain sounds are normal.	See "Normal Sounds"

<b>Problem</b>	<b>Possible Cause</b>	<b>Probable Solution</b>
The ice maker stops suddenly while making ice.	The electricity is off.	Reconnect the power supply line.
	The room temperature is out of the stated temperature range.	Cut off the electricity; let the ice maker stop working until the temperature returns within the stated range.
	The ice storage bin is full of ice.	Remove some ice cubes; make sure the ice-full probe is free of ice.
The body of the ice maker is electrified.	The grounding line isn't in the socket.	Use a socket meeting the required electrical standard.
Scaling occurs frequently inside the machine.	The hardness of the water is too high.	Use a water-softening device installed in front of the water inlet.



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