Scotsman®
Ice Systems

Installation and User's Manual for
Meridian Ice Maker-Dispensers
Wall Mount Models
HID312AWX, HID525AWX and HID540AWX

WARNING	
R290 Refrigerant is Flammable. Flame can cause burns or property damage Keep away from sources of fire	

This ice machine contains **FLAMMABLE** refrigerant and improper use can result in fire or explosion. Do not use cigarettes, vapes, or cellphones near pipes or cables, as it can be a source of ignition or spark.

This ice machine must not be installed next to equipment with an open ignition source (ie. open flames, an operating gas appliance, or electric heater). Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.

WARNING: Do not use electrical appliances inside the food/ice storage compartments unless they are of the type recommended by the manufacturer.

WARNING: In order to reduce flammability hazards the installation of this appliance must only be carried out by a suitably qualified person.

This appliance must be installed according to the safety standard for refrigeration systems presented in ANSI/ASHRAE 15.

Do not install next to anything that continuously vibrates, avoiding excessive vibrations or pulsations.

Install in a well ventilated environment and ensure ventilation and outlets are not obstructed.

Properly secure electrical wiring and cabling for the machine to minimize wear, vibrations, corrosion, excessive pressure, sharp edges, or other adverse environmental effects that could cause damage to wiring over time.

Keep fire extinguisher nearby in case of emergencies.

WARNING: Do not damage the refrigerating circuit

Use a Scotsman recommended technician certified to repair R290 equipment.

Install ONLY Scotsman factory service parts. Use of non-OEM parts can be dangerous due to the design changes needed to safely use R290 refrigerant.

WARNING: Cancer and Reproductive Harm. Visit www.P65Warnings.ca.gov for details.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

Caution: This equipment should only be used on ice bins without electrical components or bins designed to be used with flammable refrigerants.

WARNING: Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer. The appliance shall be stored in a room without continuously operating ignition sources

Do not pierce or burn.

Be aware that refrigerants may not contain an odor.

All installation, service, maintenance and decommissioning to be carried out by technicians certified to handle FLAMMABLE REFRIGERANTS.

Install in a well-ventilated environment and ensure ventilation and outlets are not obstructed.

When breaking into the refrigerant circuit to make repairs – or for any other purpose conventional procedures shall be used. However, for flammable refrigerants it is important that best practice be followed, since flammability is a consideration. The following procedure shall be adhered to:

a) safely remove refrigerant following local and national regulations;
b) purge the circuit with inert gas;
c) evacuate;
d) purge with inert gas;
e) open the circuit by cutting or brazing.

The refrigerant charge shall be recovered into the correct recovery cylinders if venting is not allowed by local and national codes. For appliances containing flammable refrigerants, the system shall be purged with oxygen-free nitrogen to render the appliance safe for flammable refrigerants. This process might need to be repeated several times. Compressed air or oxygen shall not be used for purging refrigerant systems. For appliances containing flammable refrigerants, refrigerants purging shall be achieved by breaking the vacuum in the system with oxygen-free nitrogen and continuing to fill until the working pressure is achieved, then venting to atmosphere, and finally pulling down to a vacuum. This process shall be repeated until no refrigerant is within the system. When the final oxygen-free nitrogen charge is used, the system shall be vented down to atmospheric pressure to enable work to take place. Ensure that the outlet for the vacuum pump is not close to any potential ignition sources and that ventilation is available.

Ensure that the leak detection equipment being used is suitable for use with FLAMMABLE REFRIGERANT; i.e., non-sparking, adequately sealed or intrinsically safe.

HID312AWX, HID525AWX and HID540AWX
Installation and User's Manual

Introduction

The ice maker-dispensers covered in this manual were designed to be the finest on the market. Their design is a result of Scotsman's long experience in ice maker-dispensers.

This manual includes the information needed to install, start up and operate the machine. Because there are three models covered, be sure that any instructions apply to your unit.

HID312X is 16 inches wide and 34.9" tall.

HID325X is 21 inches wide and 35 inches tall.

HID340X is also 21 inches wide, but it is 40 inches tall.

Observe any caution or warning notices. They are important and provide notice of potential hazards. Keep this manual for future reference.

If additional technical information is needed, go to Scotsman's website, www.scotsman-ice.com to download a service manual.

WARNING: Cancer and Reproductive Harm
www.P65Warnings.ca.gov

Contents

The ice maker-dispenser is designed to be installed indoors, in a controlled environment. Although it can operate in a wide range of air and water temperatures, it will provide the best performance if not subject to extremes.

Air Temperature Limitations

- Maximum: 100°F. or 38°C
- Minimum: 50°F. or 10°C

Water Temperature Limitations

- Maximum: 100°F. or 38°C
- Minimum: 40°F. or 4.4°C

Water Pressure, potable

- Maximum: 80 PSI or 5.5 bar
- Minimum: 20 PSI or 1.3 bar

Water Conductivity:

- Minimum: 10 microsiemens/cm

RO water may be supplied to the potable water system, but if it has less than the above conductivity, the water level sensor will not detect water and the unit will not make ice.

Deionized water will not work and isn't recommended.

Voltage

- Maximum: 126 Minimum: 104

Operating the machine outside of any of the above limitations is considered abuse. Any resulting damage is not covered by warranty and could cause a complete loss of warranty coverage.

Warranty Information

The warranty statement for this product is provided separately from this manual. Refer to it for applicable coverage. In general, warranty covers defects in material or workmanship. It does not cover maintenance, corrections to installations, or situations when the machine is operated in circumstances that exceed the limitations printed above.

This is a commercial model, if installed in a residence some commercial service companies may not be able to service it on site.

Fill out the Warranty Registration Card shipped with the unit and mail it in, or scan the QR code to register the machine on the Scotsman warranty website:

Product Information

The product is an ice maker-dispenser. It is designed to be hung on a wall over a sink.

- All models require a drain. An internal drain basin separates the ice storage bin's drain from other drains.
- A backflow preventer may be required by local plumbing codes.
- A power cord with NEMA 5-15P plug is included.
- Air cooled models flow air left to right and include a cleanable air filter.
- Ice or water vending is triggered by touch free sensors, no other activation method is available.
- For available options and kits, see sales literature.

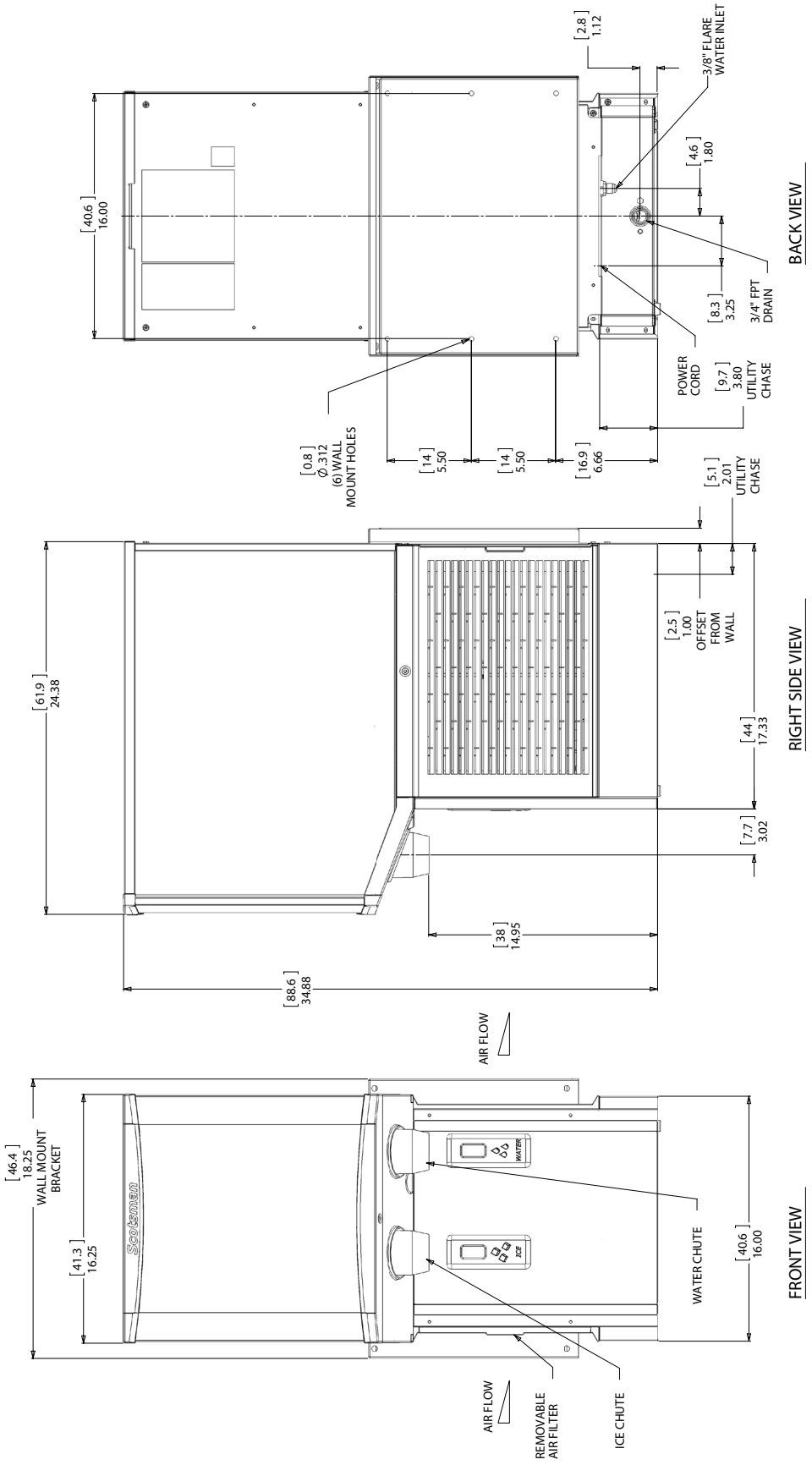
Scotsman Ice Systems are designed and manufactured with the highest regard for safety and performance. They meet or exceed the standards of UL60335-2-89 and NSF.

Scotsman assumes no liability or responsibility of any kind for products manufactured by Scotsman that have been altered in any way, including the use of any part and/or other components not specifically approved by Scotsman.

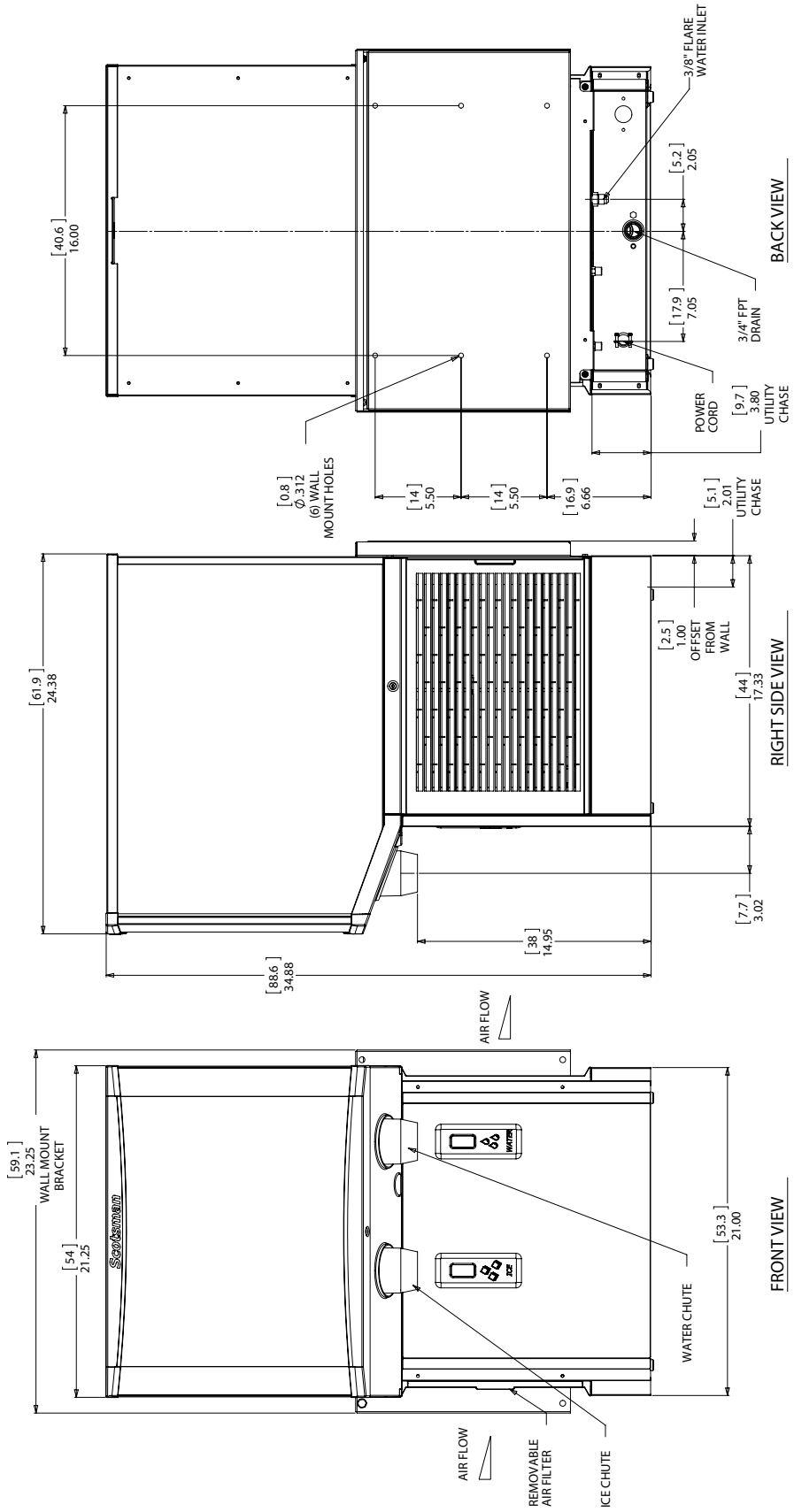
Scotsman reserves the right to make design changes and/or improvements at any time. Specifications and design are subject to change without notice.

Model	Electrical	Condenser	Typical Amp Draw	Maximum Fuse Size
HID312AWX-1A	115/60/1	Air	4.5-5	15
HID525AWX-1A	115/60/1	Air	5.8-7	15
HID540AWX-1A	115/60/1	Air	5.8-7	15

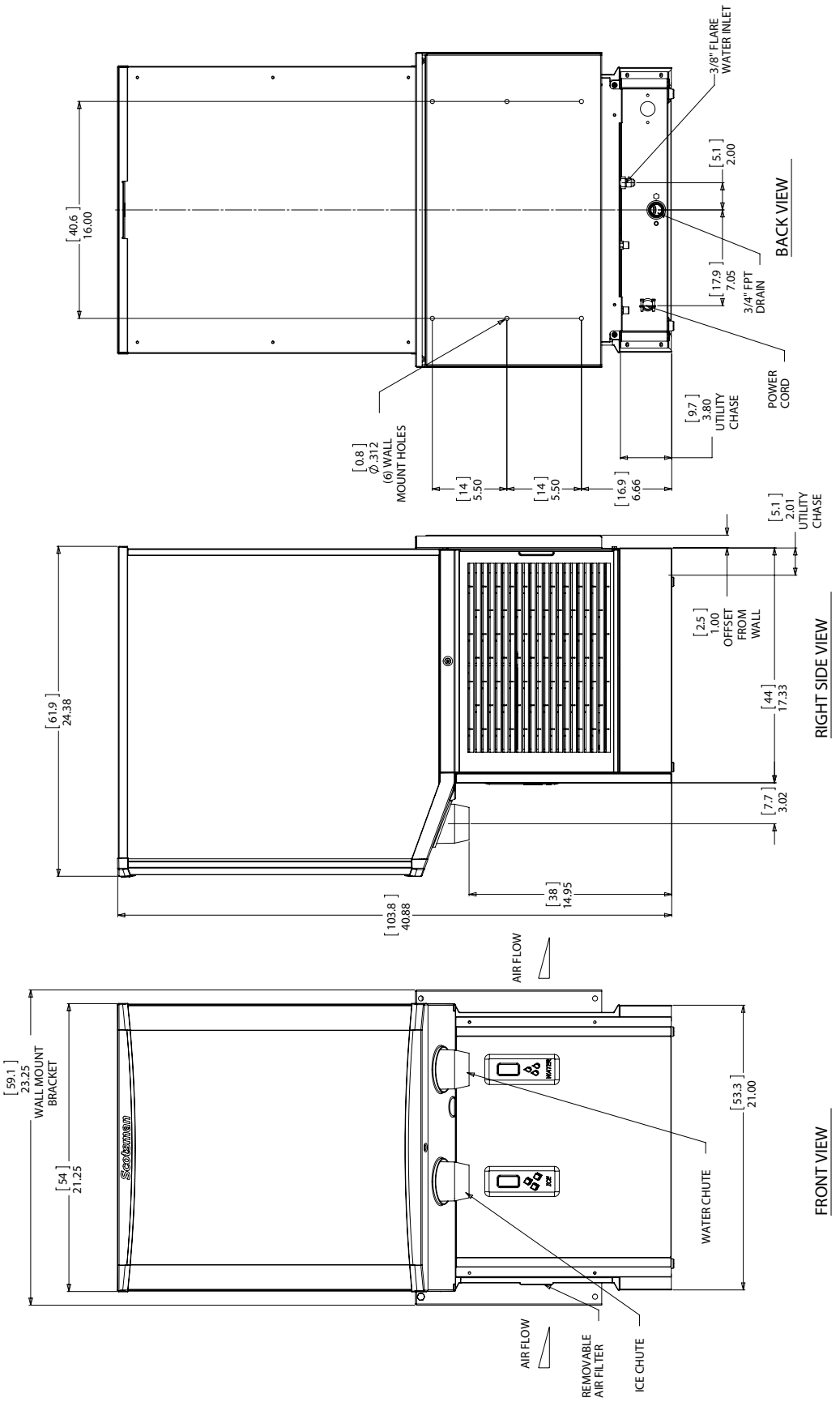
HID312AWX Cabinet Drawing



HID525AWX Cabinet Drawing



HID540AWX Cabinet Drawing



The location of the equipment should be selected with care. Consideration should be given to allow adequate space on the sides for air cooled models to breathe. Minimum clearance is 3 inches at the sides, none at the back and 2 inches above. The power outlet should be located within the length of the supplied power cord.

Air cooled models in a small room require ventilation to exhaust the heat they produce. They also produce some added noise from the fan.

Nearby infrared emitters or a window that allows sunlight to shine on a dispensing sensor may cause the unit to dispense ice or water on its own.

Wall mount units do NOT have a drip tray, so they MUST be positioned over a sink to collect any dripping water or spilled ice.

Wall Mount

These models are designed for mounting on a wall. Check building wall for the strength required to support a machine of this weight and size. Note that if at least 6" of space is not left above the machine, cleaning and most service of the machine will require removal of the machine from the wall mounts. All utilities are to be routed thru the base. One inch of space is needed between the wall and the back of the machine.

Note: The wall must be plumb or the unit will be out of level front to back.

It is recommended that the wall mounting installation be done by an experienced contractor.

The weight of the machine when in use may exceed 350 pounds. The unit should be mounted on a solid, rigid wall with proper fasteners for that type of wall and of adequate strength to support the weight of the machine when in use.

Unpack

Separate the carton from the shipping pallet.

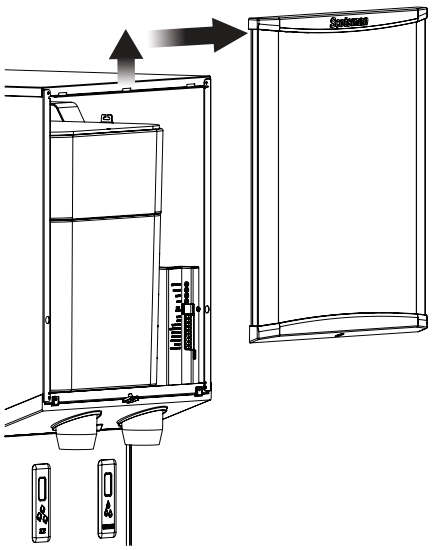
Important: Locate and retain the wall mounting brackets, they were shipped in a box on the skid in front of the unit.

Remove any strapping holding the cabinet to the pallet.

Inspect for hidden shipping damage. If any is found, retain carton and notify carrier for potential claim. Shipping damage is not covered by warranty.

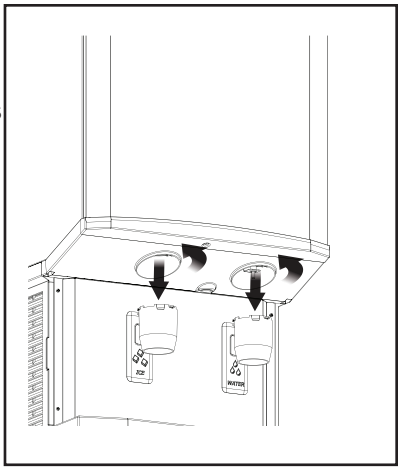
Remove bolts holding machine to pallet. Use caution to not tip unit too far when removing bolts.

Remove the protective plastic covering the panels. The longer it is left on the panel, the harder it will be to remove it.



Set Up

It is a good idea to remove the front panels and inspect for any loose or rubbing parts prior to installation.



Panel Removal

Remove one screw at bottom front of upper front panel, swing bottom of panel forward and lift off the unit.

Twist ice and water chutes counterclockwise and pull down to remove.

Remove four screws from sides of splash panel, pull forward slightly. If needed, unplug sensor connector and separate panel from unit.

Pre-Start Inspection

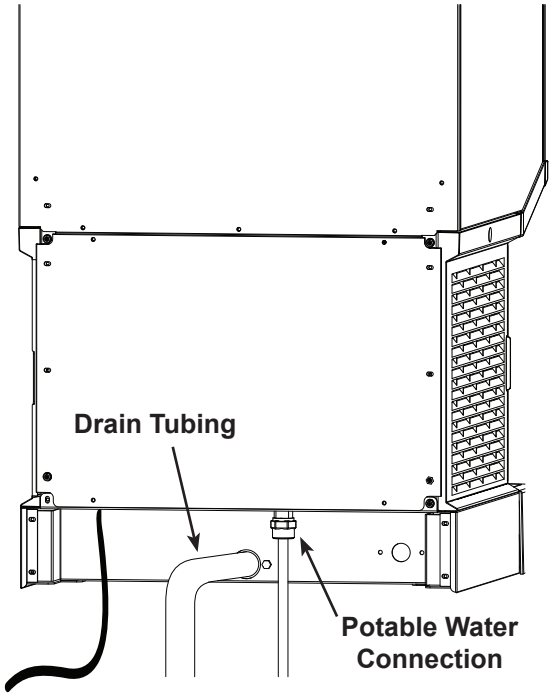
Confirm there are no loose or rubbing parts.

Installation should be done by an experienced ice machine installer. To locate one, call the number on the back of this manual or go to Scotsman's website www.scotsman-ice.com to identify a local distributor or service company.

The machine will require power, water and drain. Locate the water supply fitting on the lower back of the cabinet and obtain the correct fitting to connect the water supply.

Plumbing Fittings:

- Potable water inlet: 3/8 male flare.
- Cabinet drain: 3/4 FPT.



All models:

Note: Wall mounting limits access to the utility connections which are at the back bottom of the machine. Pre-plumbing the water and drain is required so that stubs are available for final connection to water and drain.

Connect the potable water supply tube to the 3/8 inch male flare inlet at the bottom back of the unit. Water filters may be used but are not required. Note that activated carbon or charcoal water filters are used for taste and odor problems but also take out any chlorine that the local water agency may have added for purification. That can require more frequent sanitization of the equipment.

Connect drain tubing to the 3/4 inch FPT central drain fitting at the back of the cabinet. Use 3/4 inch rigid tubing, use material to meet local codes. The drain basin in the machine will act as an internal vent, no additional vent should be required unless there is a very long horizontal run. Drain tubing must pitch down 1/4 inch per foot to the building drain. Insulation of drain tubing is recommended for most environments.

Install Wall Mounting Brackets

See next page for detailed instructions.

Electrical Supply - 115 volt models

Plug the unit into a dedicated 15 amp outlet. The unit must be the only device on the circuit. Confirm the outlet is properly grounded and is in good condition. Worn outlets should be replaced as they can cause erratic operation of equipment. Do not use an extension cord. Do not cut off the ground plug on the power cord.

Ground fault outlets are not recommended. If ground fault is required, a ground fault breaker should be used.

This ice machine should be installed on a dedicated circuit with a properly sized HACR-rated breaker or fuse. No other devices or appliances should be connected to the same circuit with the ice machine. Installing a unit on a shared circuit can cause product malfunctions or damage to the unit. The proper circuit size can be found on the unit data tag listed as "MAX FUSE OR HACR TYPE CIRCUIT BREAKER". Never allow the fuse size to exceed the maximum fuse size listed on the data tag.

The use of a ground fault circuit interrupter (GFCI) or arc-fault circuit interrupter (ARCI) can lead to nuisance trips and is not recommended for use on most appliances, including our equipment.

If local codes or other specifications require the use of ground fault circuit interrupters, a properly rated HACR GFCI or ARCI circuit breaker should be used. An outlet type GFCI or ARCI is not recommended for ice machines and other refrigeration equipment due to more frequent nuisance trips of the GFCI or ARCI.

Always check with your local electrical inspector about the specific code requirements in your area for GFCI or ARCI breakers and GFCI or ARCI receptacles. Use the services of a licensed electrician when needed and conform to local and national codes.

Follow All Local Codes - This Unit Must Be Grounded. Do not use extension cords and do not disable or by-pass ground prong on electrical plug.

Use the services of a licensed electrician when needed and conform to local and national codes.

Position the unit in its final location.

Level the unit front to back and left to right.

It is recommended that the wall mounting installation be done by an experienced contractor.

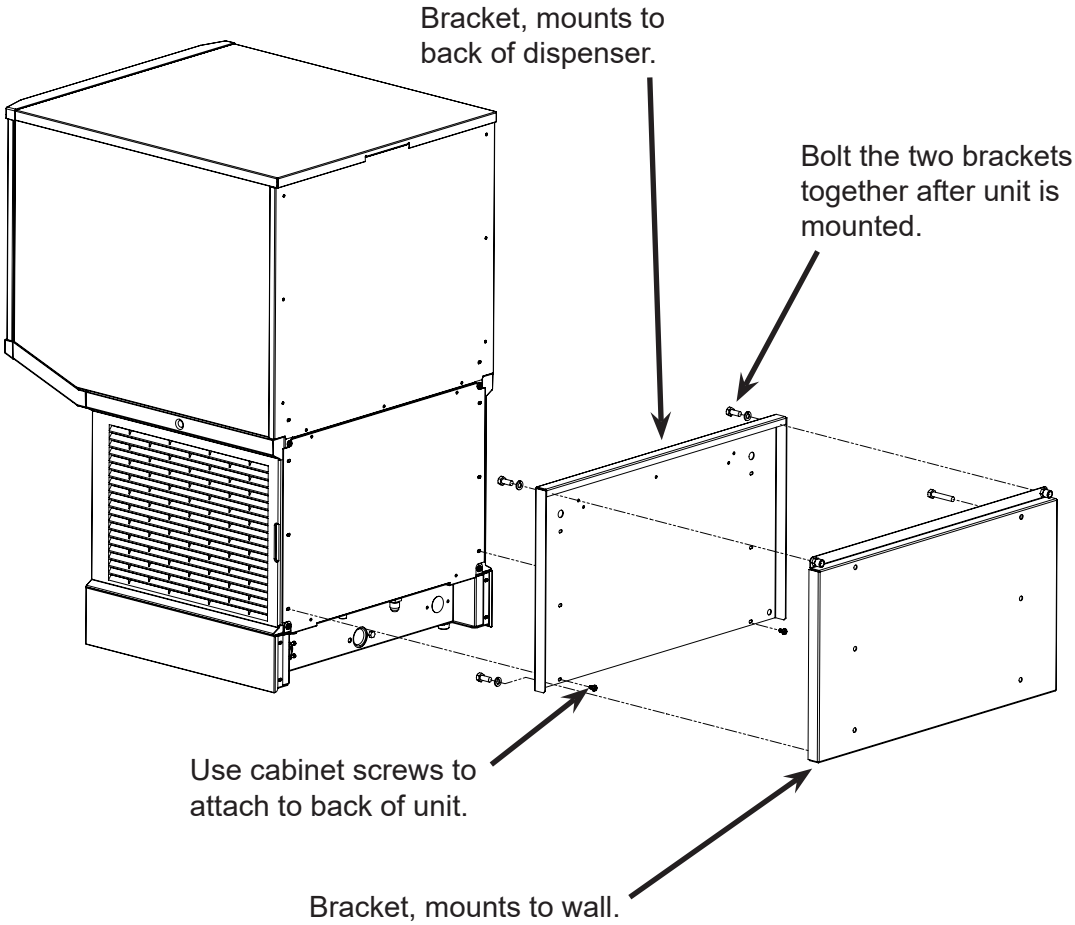
The weight of the machine when in use may exceed 350 pounds. The unit must be mounted on a solid, rigid wall with proper fasteners for that type of wall and of adequate strength to support the weight of the machine when in use.

The machine will have a bracket and there will be one bracket mounted to the wall. The machine will hang from the wall bracket by the upper bracket on the back of the cabinet. The lower bracket keeps the machine plumb to the wall.

1. Attach the water and drain tubing so the tubing extends below the bottom of the cabinet. That allows connection when the machine is on the wall.
2. Locate the box with the mounting brackets. Separate the two brackets. Retain the bolts and lock washers.
3. Identify the location of the wall studs or other materials to be used to fasten the wall bracket to.
4. Mount the wall bracket (has threaded inserts) to the wall using the appropriate methods and fasteners. Note: Must be level left to right.

The wall bracket extends beyond the width of the machine to allow attachment to multiple wall studs.

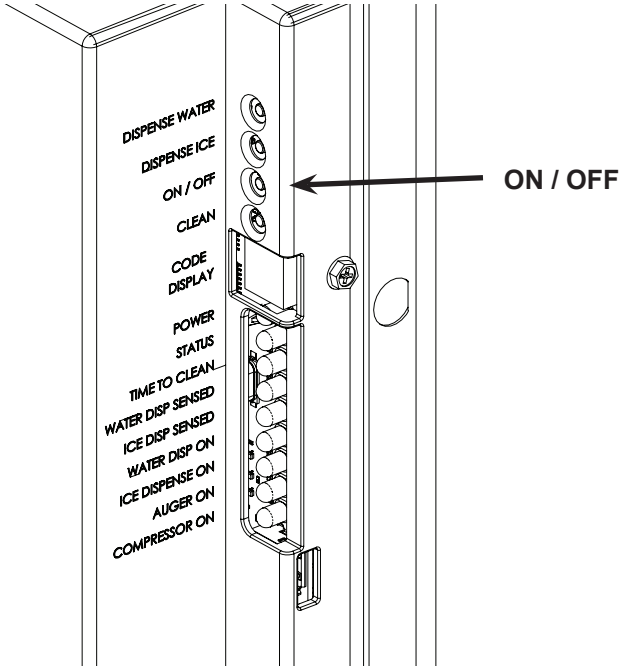
5. Mount the other bracket to the back of the ice machine cabinet at the joint between the two back panels, using 9 existing screws in the back.
6. Use a mechanical hoist to lift the cabinet high enough to fit the flange of the machine bracket over the lip of the wall bracket. Then push it back and lower it onto the wall bracket.
7. Secure the wall and machine bracket with the bolts and lock washers originally used in shipment.



Final check list:

1. Is the icemaker-dispenser installed indoors, in a location where the air and water temperatures are controlled, and where they do not go beyond design limitations?
2. Is there an electrical disconnect (switch or plug as required) within sight of the installed machine? Is the machine on a separate circuit? Has the voltage been checked and compared to nameplate requirements?
3. Have all of the plumbing connections been made and checked for leaks?
4. Has the machine been leveled?
5. Is there a minimum of 6 inches of clearance at the left and right sides of an air cooled machine?
6. Is there a minimum of 6 inches of clearance at the top of the machine for service?
7. Is there a water shut off valve installed near the machine?

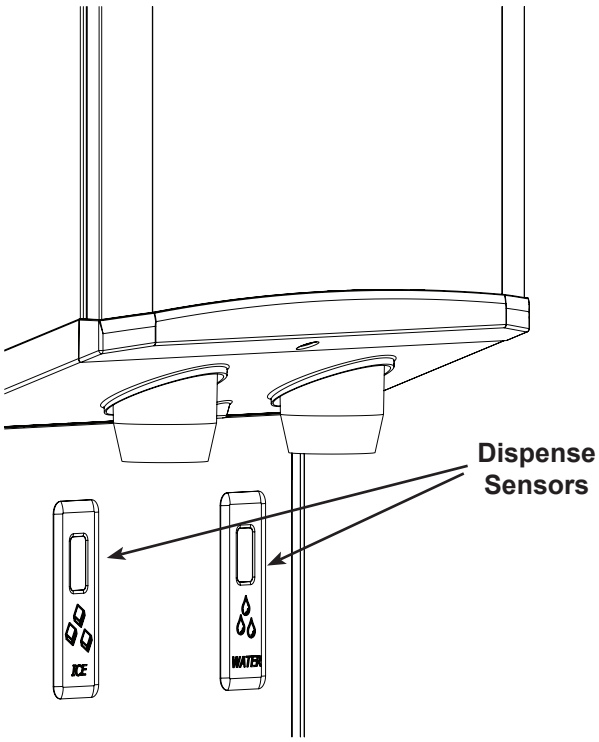
Start Up



1. Remove upper front panel
2. Open the water hand valve, observe that water enters the water reservoir, fills and then shuts off. Check for leaks. Repair any leaks before going any further.
3. Switch electrical supply on. Lights on controller will flash and then the power light will remain on. The code display will show 0.
4. Push and release the ON/OFF button. The machine will start the ice making process. The code display will show F. Air cooled models will discharge warm air out the right side, water cooled models will discharge warm (about 110°F.) water out of the condenser drain.
5. Soon ice will begin to fall into the dispensing bin. Check ice dispensing by holding a container in front of the Touch Free ice sensor (just below the ice delivery spout). Ice should flow from the spout when a container is present, and stop dispensing when the container is removed.
6. Check water dispensing by holding a container in front of the Touch Free water sensor. Water will flow when a container is present and stop when it is removed.
7. Push the ON/OFF button to switch machine off.
8. Unplug or disconnect electrical power.
9. Remove the top panel and the top of the ice storage bin. Scoop out any ice in the bin and sanitize the interior of the ice storage bin by wiping it with a locally approved sanitizer or a mixture of 1 ounce of household bleach to 2 gallons of water. Allow to air dry.
10. Reconnect electrical power.
11. Push the ON/OFF button to switch machine on.
12. Replace all covers and panels.
13. Give the owner/user the user manual. Instruct them in the operation and maintenance requirements of the unit. Make sure they know who to call for service.
14. Fill out the Customer Evaluation and Warranty Registration form, and mail it in to Scotsman or register the unit at Scotsman's website (www.scotsman-ice.com).

Dispensing takes place when the Touch Free sensor's infrared beam bounces back to the sensor from a container placed directly in front of it.

If the container is in front of the Touch Free sensor on the left side, the ice dispensing rotor will rotate and sweep ice over the ice dispensing chute. Ice will continue to discharge out this chute as long as the rotor is turning. It stops when the rotor stops.



If the user does not remove the container, The machine will stop dispensing ice after 24 seconds..

If the container is in front of the Touch Free sensor on the right side, the inlet water valve will open and water will flow into the container.

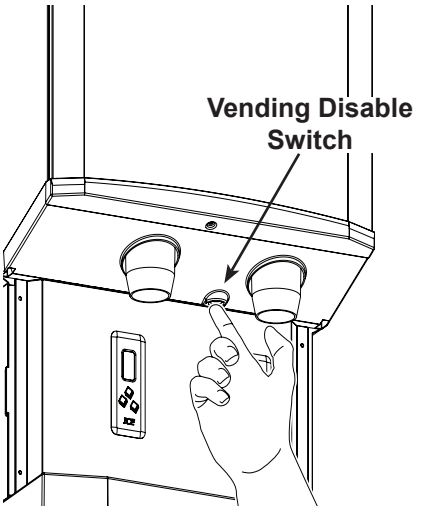
If the user does not remove the container, the machine will stop making ice after 20 seconds.

Note: Water may dispense cloudy and then clear up in the glass. That is normal due to air in the water and is not an indicator of any malfunction.

Other notes:

- An occasional drip may be seen from the ice dispense chute. This is normal and is from ice melting inside the chute. A continuous stream of water from the ice chute indicates a restricted bin drain.
- Clear containers (glass or plastic) may not always activate the dispense sensors. Reposition your hand to active the sensor in these situations.
- Both dispensing and ice making are disabled when the unit is switched off at the controller.

Splash panel wipe-off. Wiping the splash panel could result in unintended dispensing. To avoid that, a disable button has been provided. It is recessed into the bottom of the chute panel. Push and release it to disable dispensing for 60 seconds.



Noise

This is a commercial ice machine. It contains a powerful compressor, heavy duty gear reducer and, if air cooled, a fan that moves a lot of air. It will produce some noise when it is making ice. Every effort was made during its design to minimize the sound level but some noise during operation is unavoidable.

Controller

All models use the same control system.

The electronic controller operates the compressor (with fan motor), auger drive motor, dispense drive motor and inlet water solenoid valve. It monitors:

- Reservoir water availability
- Storage bin ice level
- Call for ice dispense
- Call for water dispense
- Refrigeration pressure
- Dispense enable / disable
- Auger motor speed
- Auger motor rotation
- Any installed control options

Many of these are used to ensure that the machine does not damage itself during use. For example, it is critical that it not attempt to make ice without water. So if the water sensor is dry, the machine will not make ice.

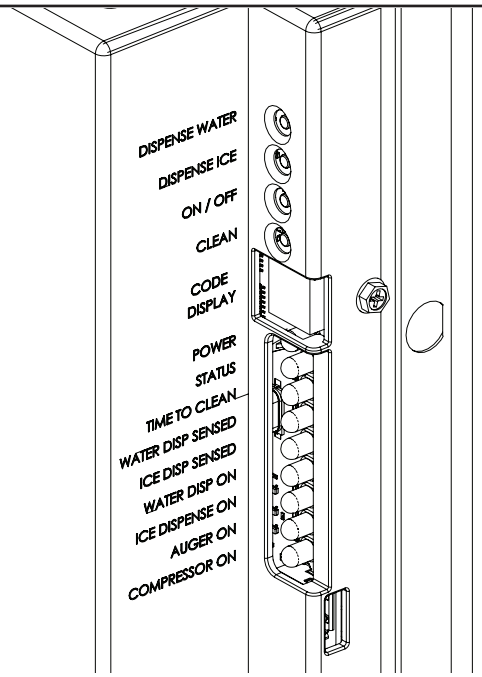
Switches - there are four switches:

- **Dispense water** - To test water dispensing
- **Dispense ice** - To test ice dispensing
- **ON/OFF** - To switch the machine on or off. Holding it in to shut off will stop ice making immediately.
- **Clean** - To engage the clean mode

Indicators - there are nine LEDs:

- **Power** - Glows when controller has power
- **Status** - Glows when in ice making mode
- **Time to Clean** - Glows when it is time to clean the machine
- **Water Dispense Sensed** - Glows when the water dispense sensor has been triggered*
- **Ice Dispensed Sensed** - Glows when the ice dispense sensor has been triggered*
- **Water Dispense** - Glows when the inlet water solenoid valve has been powered*
- **Ice Dispense** - Glows when the ice dispense motor has been powered*
- **Auger** - Glows when the auger motor is on
- **Compressor** - Glows when the compressor is on

* If blinking, the water or ice dispensing time limit has been met.



There is also a code display, the codes are:

- 0 - - - off
- F - - - ice making
- b - - - bin full
- E - - - controller error
- C - - - clean mode
- d - - - test mode
- 1 - - - auger rotation direction wrong
- 2 - - - auger speed too slow
- 3 - - - no water sensed
- 4 - - - high refrigerant pressure

If a number code is triggered, the controller will stop ice making. A blinking code means it is a temporary condition. Example: A blinking F occurs during the ice making restart process; it stops blinking when the compressor starts.

The controller will automatically restart from a water interruption or power interruption or when a refrigerant pressure switch has automatically reset.

To reset the control when it has been manually locked out, push and release the ON/OFF button to shut it off and then push and release it again to switch it on.

Note: The compressor will not restart for 2 minutes from the time it was shut off.

There are five areas of maintenance:

1. Drain system
2. Air cooled condenser filter and condenser
3. Ice dispense bin and rotor
4. Photo eye ice level control
5. Ice making water system

Drain System

1. Remove upper front panel.
2. Twist dispense chutes clockwise and pull down to remove.
3. Push in dispense disable switch, remove screws holding lower front panel to unit and unplug lower panel sensors at the harness connection. Set panels aside.
4. Shut the machine off.
5. Pour hot water into the drain basin to confirm free drainage.
6. Clean the dispense chutes. Use ice machine scale remover if needed to dissolve scale.
7. Reverse to reassemble. Insert chutes and rotate CCW until they snap into place and stop.

Air filter

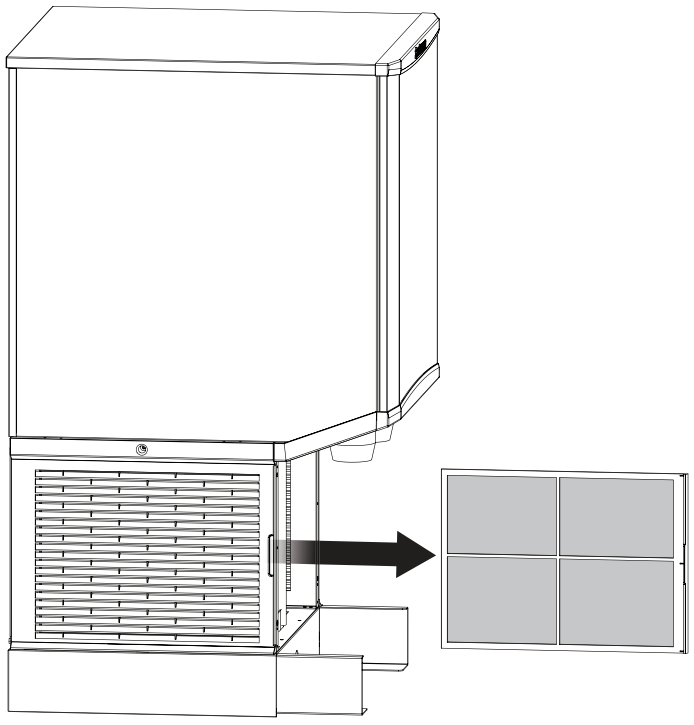
The air filter on the left side of the cabinet will capture significant dust and lint during operation. As the dirt builds up it begins to restrict air flow and causes the refrigeration system to work longer to make ice. Clean the air filter regularly.

To remove, pull it forward from the louvers. Do not leave it out for extended periods of time.

To clean, wash it at a utility sink. Return it to the unit when clean.

Condenser.

The condenser fins may need cleaning too. Remove the left side air grill and brush any lint and dirt off the surface of the condenser. Vacuum any remaining dirt. Do not damage the fins of the condenser during cleaning.



Maintenance and Cleaning - Dispensing bin and ice level controls

The ice storage bin and rotor must be cleaned and sanitized on a regular basis (at least as often as the ice making system is cleaned). Hand tools and hand protection like rubber gloves are recommended for this procedure.

Note: Some steps overlap with the procedure on the next page. This procedure can be independent of the ice making system cleaning or can be part of it.

1. Remove upper front panel.
2. Remove top panel.
3. Shut machine off.
4. Vend or melt out all ice.

Note: Only add 16 oz water to the bin at a time, as excess water will drain out the spout.

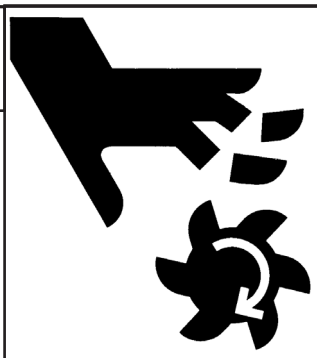
5. Disconnect ice level control at harness.
6. Unplug or disconnect unit from electrical power.

⚠CAUTION

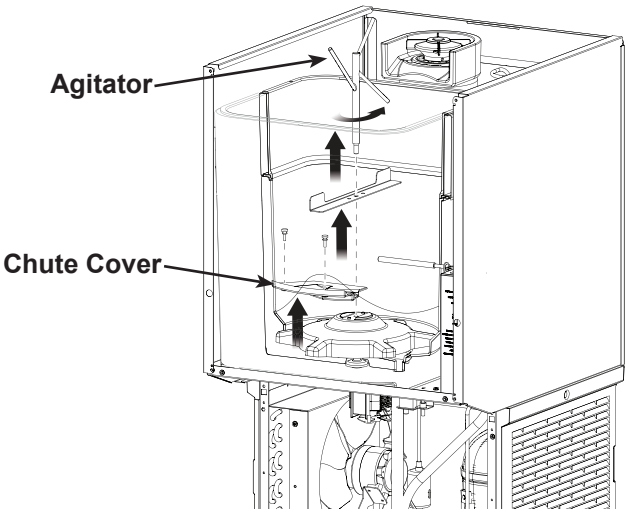
Moving parts hazard.

Risk of personal injury.

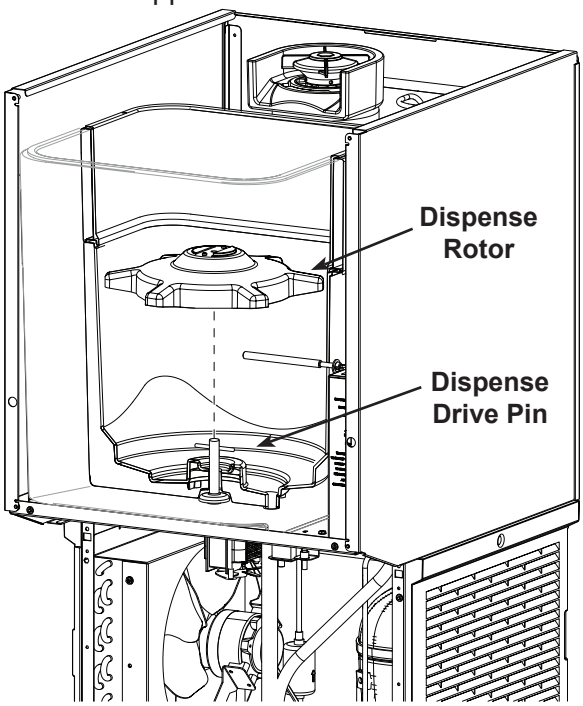
Disconnect electrical power before proceeding.



7. Remove ice storage bin cover, set aside.
8. Remove agitator bar (rotate CCW), set aside.
9. Remove 2 thumbscrews & chute cover, set aside.
10. Lift up and remove dispense rotor, set aside.



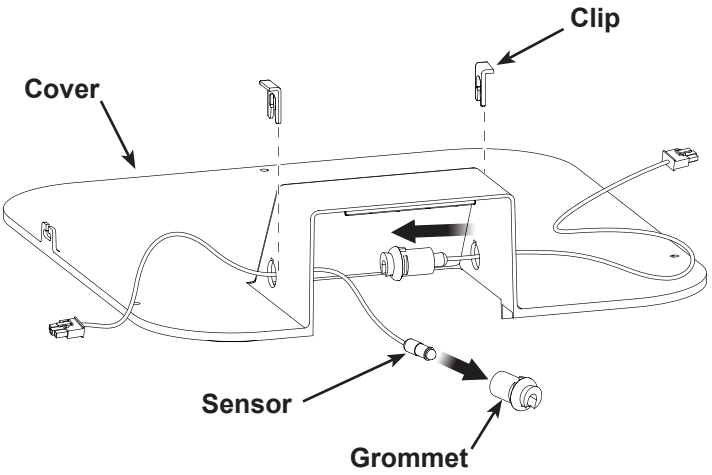
11. Mix a solution of ice machine scale remover, such as Scotsman Clear 1 and potable water per the directions supplied with the scale remover.



12. Use a clean cloth and wash all the interior surfaces of the bin and the bin cover, agitator bar, chute cover and dispense rotor with the ice machine scale remover solution. Rinse with clear water.
13. Mix a 2 gallon solution of locally approved sanitizer. A possible sanitizer solution is one packet of Stera Sheen Green Label and 2 gallons of warm (95° to 105°F.) potable water.
14. Use a new clean cloth and wipe all the interior surfaces of the bin and the bin cover, agitator bar, chute cover and dispense rotor with the sanitizer solution.
15. Return all parts to their original positions and secure them with their original fasteners.
16. Reconnect electrical power and restart the machine.

Clean if the controller indicates bin full and there is no ice between the sensors.

1. Remove top front and top panels.
2. Shut machine off.
3. Disconnect ice level controls at connector.
4. Remove 3 screws and ice storage bin cover.
5. Pull each sensor grommet clip up and off.



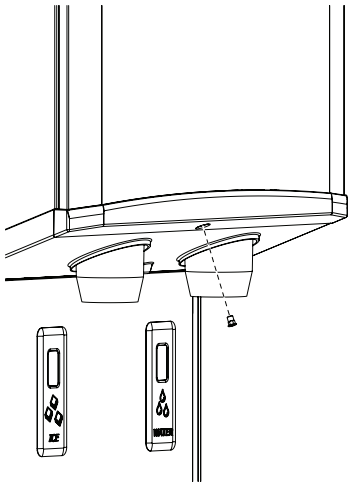
6. Push grommets out of bin top.
7. Pull each sensor out of its rubber grommet. Pull on the part of the sensor closest to the grommet, not the wire.
8. Wipe the sensor lenses clean with a soft, clean cloth. Caution - do not scratch the lens. If there is mineral scale on the lens, ice machine scale remover will be needed to wipe them clean.
9. Return each sensor to a grommet, push it in until it snaps into place.
10. Reverse the rest of the steps to reassemble.

Dispensing Bin

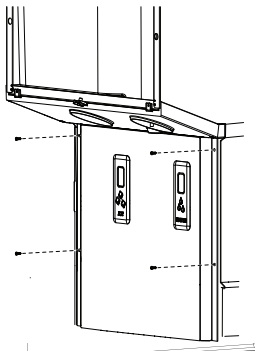
The dispensing bin may be removed for cleaning or to provide service access to other components.

1. Go thru steps 1 thru 10 of the Bin Cleaning Procedure above.
2. Remove ice sweep.
3. Remove ice delivery chute and chute cover.
4. Remove dispense motor drive pin.
5. Twist and remove the water and ice dispense chutes.

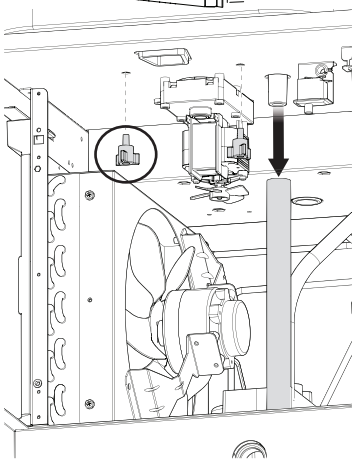
6. Remove the chute mounting panel.



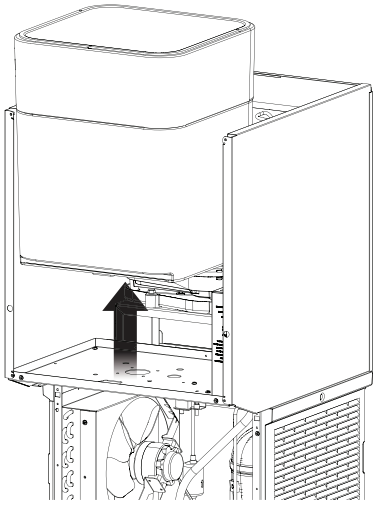
7. Remove splash panel, disconnect sensors from harness and set panel aside.



8. Locate two 3 prong knob bolts under the bin. Remove them.
9. Locate bin drain and disconnect it from bin fitting.



10. Lift the bin up and off the chassis. Clean as needed.



Ice Making and Ice Dispensing System Cleaning Instructions

Hand tools, cleaning supplies and hand protection are recommended for this procedure.

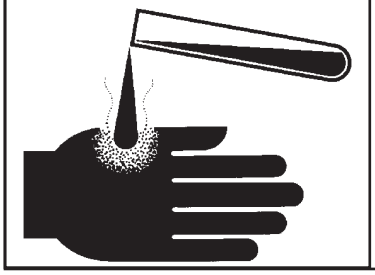
Frequency: Recommended minimum time between cleanings is 6 months. To aid in determining if the machine has not been cleaned in 6 months, a Time To Clean light will glow after 6 months of power up time. Cleaning the machine with the following process will reset that light and the timer that controls it. More frequent cleanings may be required based on the mineral content of the water, run time and potential airborne contamination.

1. Remove both front panels.
2. Push ON/OFF button to shut ice making off.
3. Shut water supply off.
4. Drain water from ice making system by pulling reservoir drain hose from plug at drain basin and return to plug when drained.

Note: Drain into drain basin in base of unit. Sink must be attached to unit throughout this process.

5. Remove reservoir cover and fill with hot (110-120 degree F.) water, wait 2 minutes and drain water from ice making system by pulling reservoir drain hose from plug and return hose to plug when drained.

⚠CAUTION



Scotsman Ice Machine Cleaner contains acids. These compounds may cause burns.

If swallowed, DO NOT induce vomiting. Give large amounts of water or milk. Call Physician immediately. In case of external contact, flush with water.

KEEP OUT OF THE REACH OF CHILDREN

6. Mix a solution of 12 ounces of Scotsman Clear 1 ice machine scale remover and 12 ounces of clean, potable water.
7. Loosen thumb screw holding water reservoir to post.
8. Lift water reservoir to the top of the post and re-secure with the thumb screw.
9. Remove cover from water reservoir.
10. Vend all ice from dispenser.
11. Remove dispense bin cover.
12. Remove ice discharge chute cover from top of ice making system.
13. Pour cleaning solution into reservoir. **Caution**: solution is highly acidic. Use rubber gloves and **DO NOT SPILL**.

⚠CAUTION

Moving parts hazard.

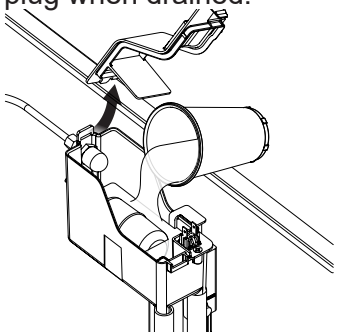
Risk of personal injury.

Disconnect electrical power before proceeding.

14. Push the Clean button. The unit will operate the auger motor for 30 minutes and then stop.

Note: Stop at any time by pushing the ON/OFF button.

15. Disconnect unit from electrical power.
16. Drain the scale remover solution from the water system by pulling the reservoir drain hose from its plug. Return it to the plug when drained.



17. Pour 24 ounces of clean, potable water into the reservoir.
18. Drain the water from the water system by pulling the reservoir drain hose from its plug and return it to the plug when drained.
19. Mix a solution of 4 ounces of ice machine scale remover and 16 ounces of potable water. Use this scale remover solution to wash out the water reservoir cover, ice discharge chute, ice chute cover, ice delivery chute, storage bin cover and inside of the ice storage bin. Slowly pour the cleaning solution down the bin drain.

Sanitize now.

20. Mix a 2 gallon solution of sanitizer. A recommended sanitizer solution is one 2 oz. packet of Stera Sheen Green Label and 2 gallons of warm (95° to 105°F.) potable water, or an equivalent sanitizer at a concentration of 100 ppm.
21. Pour the sanitizer solution into the reservoir until it is full (level with the molded line on the side).
22. Reconnect electrical power.
23. Push the ON/OFF button to make ice for 10 minutes. Add more sanitizer to the reservoir to keep it full while making ice.
24. Push the ON/OFF button to stop making ice.
25. Disconnect electrical power.
26. Remove the ice outlet cover, dispense rotor and ice dispenser agitator from the bin. Wash them with the sanitizer solution.
27. Wash all inside surfaces of the ice storage bin and ice discharge chute with the sanitizer solution.
28. Wash the ice discharge chute cover, ice sweep, metal area below the ice sweep and ice dispense chute with the sanitizer solution.
29. Pour remaining sanitizer into the bin and sink. Do not overfill bin.
30. Drain sanitizer from ice making system by pulling reservoir drain hose from plug and return hose to plug when drained.
31. Loosen thumb screw holding water reservoir to post and lower the water reservoir to the top of the slot, retighten thumb screw.
32. Return the chute cover, dispense rotor and agitator to the inside of the storage bin. Secure with the original fasteners.
33. Return the ice dispense chute and water reservoir cover to their original positions and secure them with their original fasteners.
34. Reconnect water and electrical power to the machine.
35. Push the ON/OFF button to restart ice making.
36. Operate machine for 5 minutes and then push the ON/OFF button to stop ice making.
37. Pour 16 oz of warm (95° to 105°F.) potable water into the bin. Repeat until the ice has been melted.
38. Return the dispense bin cover to the machine and secure with the original screws.
39. Push the ON/OFF button to resume ice making.
40. Return all panels to their normal positions and secure with the original screws.

Other maintenance

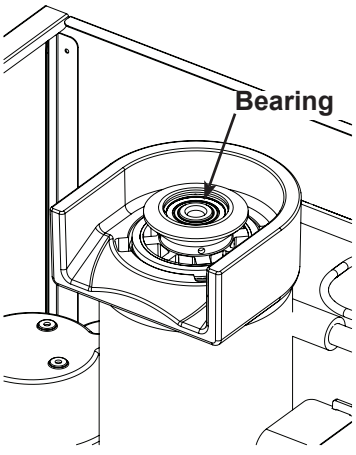
The auger in the ice making system is centered by bearings at the top and bottom. It is also sealed from leaking by a water seal at the bottom.

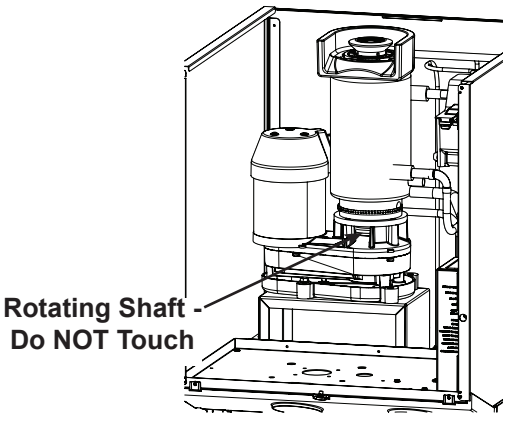
The bearings are permanently lubricated and need no maintenance. They can be visually checked for obvious wear or damage but there is no need to add lubrication.

Auger motor bearings and the gear reducer are also permanently lubricated and need no maintenance.

The bottom of the ice making system should be checked for water leaks. Water draining from the bottom is an indication of a water seal leak. Immediate repair is required when a water seal leak is discovered.

Caution: Moving parts hazard. Do not touch the rotating shaft at any time.





Basic Troubleshooting

See the separate HIDX service manual for more advanced troubleshooting information.

Symptom	Possible Cause	Probable Correction
No ice is dispensed	No ice in bin	Unit in Off mode. Remove upper front panel, check controller code, push ON/OFF button to restart.
		No water to unit. Controller shows code 3. Restore water supply.
		No power to unit, power light on controller is off. Restore power.
		High pressure control opened. Controller shows code 4, water interrupted to water cooled model. Restore water and reset controller.
		Ice level control sensing full bin falsely. Controller shows b. Clean ice level control sensors.
	Dispense motor not turning	Remove upper front panel, check controller indicator lights. Hold container in front of sensor, does the Ice Dispense Sensed light glow? If no, sensor isn't detecting the container. If yes, does the Ice Dispense light glow? If yes, push Dispense Ice button. Does the motor activate? If yes, go to next row. If no, check for voltage at motor. If no voltage, replace controller. If voltage at motor, replace motor.
	Dispense motor working, but ice in bin not moving	Agitator or rotor not turning, remove all ice and inspect for damage to agitator and rotor.
No water is dispensed	No water to unit.	Restore water.
	Water valve not opening	Remove upper front panel, check controller indicator lights. Hold container in front of sensor, does the Water Dispense Sensed light glow? If no, sensor is not detecting the container. If yes, does the Water Dispense light glow? If yes, push Dispense Water button. Does the water valve activate? If no, check for voltage at valve. If no voltage, replace controller. If voltage at valve, replace valve.
Water drips from spout	May be normal	A few drops per minute is normal.
	Bin drain may be plugged.	Check bin drain tube at basin.
Dispensed water is cloudy, but clears up in a few minutes	Air in the water	This is normal and can vary depending upon how much air is in the water. May be improved by lowering water pressure to the unit.
Water stream is not uniform or splashes excessively when dispensed	Aerator is not installed	Machines manufactured in 2020 or earlier don't have an aerator that regulates a smooth stream and reduces splashing. Conversion kit 16-1246-21 installs easily and compatible with all HIDX models.
	Aerator is clogged	Machines manufactured in 2021 or later include an aerator. The aerator may become clogged and should be replaced. Service kit 16-1246-22 includes a replacement aerator and required key tool.

Controller Diagnostics

Code or Light Action	Probable Cause	Suggested Action
0	Unit manually switched off	If desired, switch unit on.
F	Freeze mode	None, unit is making ice.
b	Bin sensors sense bin full	Check if bin is full.
E	Corrupted memory	Replace controller
C	Clean mode	Continue clean mode
d	Test mode	None, allow unit to finish test mode.
1	Auger motor rotated auger backwards.	Replace auger motor. Check water seal area for leaks, replace seal if leaking.
2	Auger motor stalled or operating slowly	Clean ice making system and retry.
3	No water in reservoir	Restore water. If there is water, is it too pure? Are sensor wires connected?
4	High pressure cut out open	Check fan motor on air cooled or water supply on water cooled.
Water dispense sensed light blinking	Container positioned in front of water dispense sensor for more than 24 seconds	Normal, controller has a time limit for dispensing. Remove container.
Water dispense light blinking		
Ice dispense sensed light blinking	Container positioned in front of ice dispense sensor for more than 20 seconds.	
Ice dispense light blinking		
Status light is on	Unit is in ice making mode	Normal, may not be making ice if bin is full
Time to Clean light is on	Unit has not been cleaned for at least 6 months	Clean unit
Water Dispensed Sensed light is on	A container is in front of the sensor	Normal during water dispensing
Ice Dispensed Sensed light is on	A container is in front of the sensor	Normal during ice dispensing
Water Dispense light is on	Water solenoid has been activated	Normal during water dispensing
Ice Dispense light is on	Bin drive motor has been activated	Normal during ice dispensing
Auger light is on	Auger motor is active	Normal when making ice
Compressor light is on	Compressor is active	Normal when making ice

Decommissioning

Only qualified technicians familiar with R290 refrigerant should decommission a machine, as special tools and containers are required for the removal, transportation, and disposal of this highly flammable substance.

- Before attempting the procedure:
    * Ensure that all protective gear is present and used throughout the procedure.
    * Make sure recovery equipment and containers are available and ready for use. All containers used for recovery must be rated for R290 refrigerant and must be labeled as such.
    * Weigh any refrigerant prior to reclaiming.
- Maintain safety through standard operating procedures as outlined on page 20 of this document. Be sure to follow local, state, and federal guidelines for proper disposal.
- Do not fill containers more than 80% and do not exceed the pressure limits of the container. Make sure the machine to be decommissioned is in satisfactory working order and that the electrical components of the machine are properly sealed to prevent ignition.
- Recovered refrigerant should not be charged into another refrigerating system or mixed in another container.
- Make sure to safely transport the refrigerant in line with standard operating procedures.
- All recovered refrigerant must be returned to refrigerant supplier for proper disposal.
- If compressor or compressor oils are removed ensure it has been removed to an acceptable level so the flammable refrigerant does not remain in the lubricant.

SCOTSMAN ICE SYSTEMS

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