



PRE-INSTALLATION CONSIDERATIONS

To properly make and store ice, the model UC-15l:

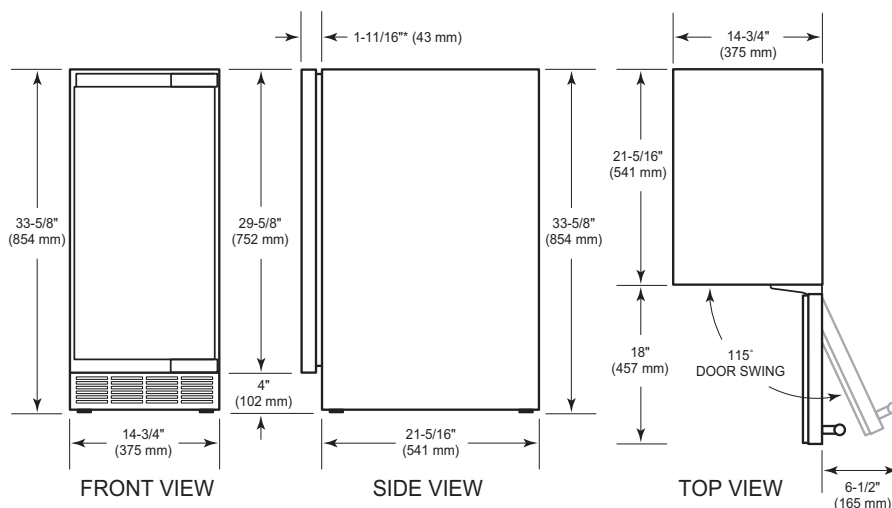
- Must have an open site (gravity) drain available (applies to models without a drain pump only). Refer to specifications found later in this section.
- Must have a grounded, polarized electrical power supply on a separate circuit servicing only this appliance. If GFCI (ground fault circuit interrupter) is required by local electrical code or is part of an outdoor installation, it must be breaker type, not outlet type. Refer to specifications found later in this section.
- Must have a cold water supply line available at ice machine. Refer to specifications found later in this section.
- Specifications for clearance and air temperature requirements must be met. Refer to specifications found later in this section.
- Must be removable for yearly cleaning procedure. Refer to specifications found later in this section.

⚠ WARNING

PROPER INSTALLATION REQUIRES CONNECTION TO A WATER SUPPLY, A DRAIN AND A DEDICATED ELECTRICAL CIRCUIT. THESE CONNECTIONS ARE THE RESPONSIBILITIES OF THE OWNER/OPERATOR. IMPROPER CONNECTIONS CAN RESULT IN PERSONAL INJURY, SUBSTANTIAL PROPERTY DAMAGE AND ERRATIC MACHINE OPERATION. IF UNABLE TO SAFELY CONNECT THE ICE MACHINE, CONSULT QUALIFIED PROFESSIONALS OR CONTACT SUB-ZERO.

NOTE: Failure to follow installation guide lines may affect warranty coverage.

OVERALL DIMENSIONS



*Does not include door panel

Dimensions in parentheses are in millimeters unless otherwise specified.

ALL MODELS

Overall Width	14-3/4" (375 mm)
Overall Height (levelers in)	33-5/8" (854 mm)
Overall Depth	23" (584 mm)
Minimum Door Clearance	18" (457 mm)
Rough Opening Width	15-1/4" (387 mm)
Rough Opening Height	34-1/2" (876 mm)
Minimum Height Required (levelers in)	33-5/8" (854 mm)
Rough Opening Depth	24" (610 mm)

Dimensions may vary $\pm 1/8"$ (3 mm).



Location of the Ice Machine

The location selected for the ice machine must meet the following criteria. If any of these criteria are not met, select another location.

- The ice machine may be built into a cabinet, however the location must allow removal of the ice machine for cleaning and servicing. Service diagnostics are performed from the top of the ice machine.
- The location must be free of airborne and other contaminants.
- Do not place the unit within 18" (457) of a trash compactor or trash/recycling container.
- The air temperature must be at least 50°F (10°C). But, the air temperature must not exceed 100°F (38°C) for models UC-15I and UC-15IP, and 110°F (43°C) for models UC-15IO and UC-15IPO.
- The location must not be near heat-generating equipment.
- The location must not obstruct air flow through the kickplate (airflow is in and out the front of the ice machine).
- The location must allow enough clearance for water, drain and electrical connections at the rear of the ice machine.
- Models UC-15IO and UC-15IPO are designed and approved for outdoor installation.

CAUTION

The ice machine must be protected if it will be subjected to ambient temperatures below 32°F (0°C). Component failure caused by exposure to freezing temperatures is not covered by the warranty.

Area Requirements

Before moving the ice machine into place, be sure the finished opening dimensions, electrical location and plumbing location are accurate.

Be sure the plumber, electrician and cabinet installer have this information before finishing work is completed.

Models UC-15I and UC-15IO are gravity drain models that require a drain tube that is pitched down from the outlet at the back of the unit to the sanitary sewer connection.

Models UC-15IP and UC-15IPO have a built in drain pump that will pump water up to a drain point, such as a nearby sink. Refer to specifications found later in this section.

NOTES:

- *If the ice machine is installed in a corner, the door swing may be limited due to handle contact with the wall or cabinet face.*
- *The floor under the ice machine must be at the same level as the surrounding finished floor.*
- *When moving the unit, use a hand truck or dolly, position the dolly on the side of the unit and secure the door so it does not open while transporting the unit.*

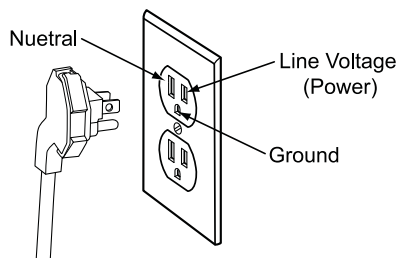
CAUTION

Any finished flooring should be protected with appropriate material to avoid any damage from moving the unit.



ELECTRICAL REQUIREMENTS

Prepare electrical circuit before installation of the ice machine. Installation requires a grounded (three-prong), polarized receptacle (See Figure 2-2), with a separate fuse/circuit breaker in an electrical service box.



Proper Three-Prong Polarized Receptacle

NOTE: All National Electrical Code regulations must be followed. In addition, be aware of local codes and ordinances when installing the services.

Voltage

⚠ WARNING

ELECTRICAL SHOCK HAZARD. DO NOT USE AN EXTENSION CORD OR TWO PRONG ADAPTER. ELECTRICAL GROUND IS REQUIRED ON THIS APPLIANCE. DO NOT REMOVE THE POWER SUPPLY CORD GROUND PRONG.

All electrical work, including wire routing and grounding, must conform to local, state and national electrical codes. The following precautions must be observed:

- The ice machine must be grounded.
- A separate fuse/circuit breaker must be provided for each ice machine.
- The maximum allowable voltage variation is +/-10% of the rated voltage at ice machine start-up (when the electrical load is highest).

- The minimum wire size is #14 for less than 100 feet (30.5 m) or #12 for more than 100 feet (30.5 m) to 200 feet (61 m) (solid copper conductor only). The recommended breaker is 15 amp. Local or state electrical code, length of run or materials used, can increase the minimum wire gauge required. A qualified electrician must determine the proper wire size, although #14 is the minimum size allowed.

NOTE: Observe correct polarity of incoming line voltage. Incorrect polarity can lead to erratic ice machine operation and a safety issue.

Minimum Circuit Requirements

The minimum circuit requirement is used to help select the wire size of the electrical supply.

NOTE: Minimum Circuit Amps listed below is not the ice machine's running amp load.

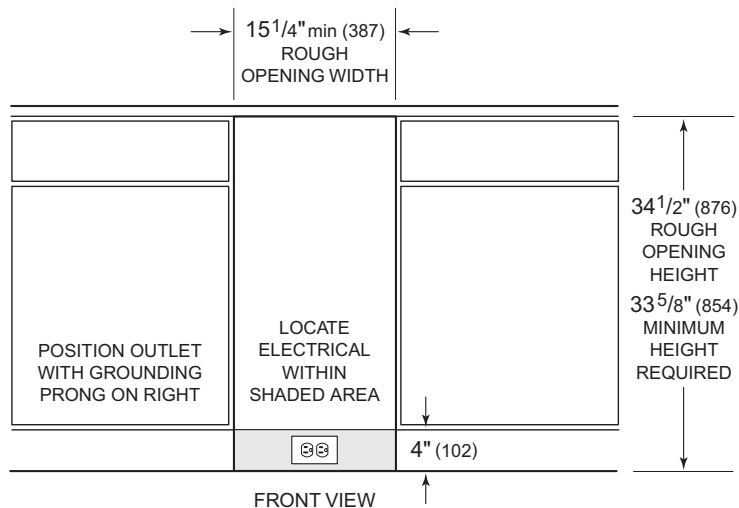
MAXIMUM BREAKER SIZE AND MINIMUM CIRCUIT AMPERAGE

Voltage / Phase / Cycle	115 / 1 / 60
Maximum Fuse/Circuit Breaker Amps	15
Minimum Circuit Amps	4.1

GFCI Requirements

For Models UC-15IO and UC-15IPO or if a GFCI (ground fault circuit interrupter) is required by local electrical code, it must be breaker type.

INSTALLATION SPECIFICATIONS



Dimensions in parentheses are in millimeters unless otherwise specified.



PLUMBING REQUIREMENTS

NOTE: Plumbing must conform to state and local codes.

Water Supply

Prepare water supply line and drain before installation of the ice machine. Installation requires a minimum 1/4" ID copper cold water line and compression fitting (not supplied). Models UC-15I and UC-15IO are supplied with a drain hose for gravity draining. The optional drain pump or pump models UC-15IP and UC-15IPO must be purchased if a gravity drain is not possible. Both drain methods require routing to an open site drain. Do not connect directly to drain line as bacteria from drain line may contaminate the ice machine.

The included water filter is designed to inhibit scale formation, filter sediment, and remove chlorine odor and taste. The life expectancy of the water filter is 6 months during normal usage. The ice machine control board will monitor water usage and indicate when replacement is required.

Water Inlet Lines

Follow these guidelines to install water inlet lines:

- Do not connect the ice machine to a hot water supply. Be sure all hot water restrictors installed for other equipment are working. (Check valves on sink faucets, dishwashers, etc.)
- If water pressure exceeds the maximum recommended pressure (80 psi–551.5 kPA), obtain a water pressure regulator from a local plumbing contractor.
- Install a water shut-off valve for the ice making water lines.
- Insulate the water inlet line to prevent condensation.

Drain Connections

Follow these guidelines when installing drain lines to prevent drain water from flowing back into the ice machine and storage bin:

- Drain lines must have a 1-1/2" drop per 5 feet of run (2.5 cm per meter), and must not create traps.
- The floor drain must be large enough to accommodate drainage from all drains.
- Drain pump discharge line must terminate at an open site drain.
- Maximum rise – 12 feet (3.7 m)
- Maximum run – 100 feet (30.5 m).

APPROXIMATE HEIGHT OF ICE MACHINE DRAIN

Standard Installation	5" (127mm)
-----------------------	------------

⚠ CAUTION

Improper drainage can lead to water flowing back into ice machine and poor performance.

**WATER SUPPLY AND DRAIN LINE SIZING / CONNECTIONS**

	Water Temperature	Water Pressure	Ice Machine Fitting	Tubing size up to Ice Machine Fitting
Ice Making Water Inlet	50°F (10°C) Min. 80°F (27°C) Max.	20 psi (137.9 kPa) Min. 80 psi (551.5 kPa) Max.	1/4" (6.4 mm) ID Copper Tubing	1/4" (6.4 mm) minimum Inside Diameter
Models UC-15I and UC-15IO	—	—	3/4" (19mm) Hose Barb	3/4" (19mm) minimum Inside Diameter
Models UC-15IP and UC-15IPO	—	—	3/8" (9.5mm) Hose	3/8" (9.5mm) minimum Inside Diameter

NOTES

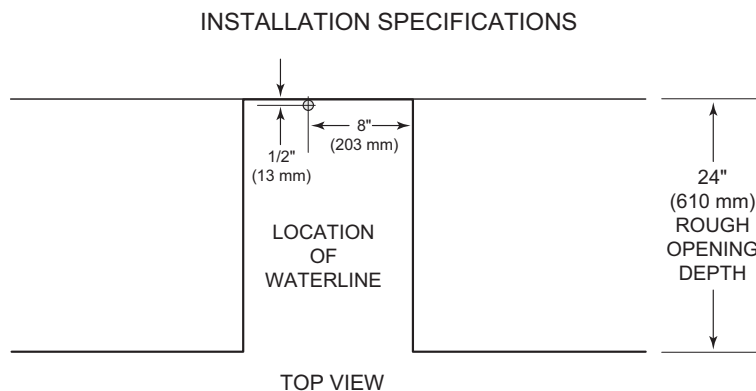
- If air temperature is less than 60°F (16°C), water temperature must be equal to or greater than 50°F (10°C).
- Plumbing must conform to state and local codes.
- Although the ice machine has been designed to be serviced in place, in some cases it may be necessary to pull the unit out for service. For that reason do not restrict access to the unit at the front, top and bottom. If a floor is to be installed after the ice machine, shims the thickness of the floor should be installed under the unit to keep the ice machine level with the floor. Also, allow 1/8" (3) clearance on each side of the unit for protruding screw heads.

Installations on a Cement Slab:

Use a Model UC-15IPO or UC-15IP, with built-in drain pump and pump the water to the point of drainage. Drain pump models will pump 12 feet (3.7 m) high.

Installations Over a Crawl Space or Basement:

If there is not enough room behind the ice machine for a drain/waste water receptacle, the drain will have to be below the floor.



Dimensions in parentheses are in millimeters unless otherwise specified.



INSTALLATION PROCEDURE

1. Prepare the site by following the instructions under Electrical Requirements and Plumbing Requirements found earlier in this section.
2. Remove ice machine from carton
3. Inspect ice machine for damage.
4. Remove literature/warranty packet and drain hose from inside the ice machine.
5. Adjust leveler legs. Refer to Leveling found later in this section.
6. Reverse door if desired. Refer to Reverse the Door Swing found later in this section.
7. **Gravity drain model:** Install drain hose to drain on back of ice machine and route to open site drain. Refer to Plumbing Requirements found earlier in this section.
Pump model: Route drain tubing through drain fitting on the back of the ice machine and install drain hose on drain pump. Route other end of drain tubing to drain site. Refer to Plumbing Requirements found earlier in this section.
8. Use compression fitting to connect the Water Inlet on back of ice machine to the prepared 1/4" ID cold water line. Refer to Plumbing Requirements found earlier in this section.

9. Open the shut-off valve on the water line.
10. Check all visible connections for water leakage. Failure to do so could cause flooding.

⚠ WARNING

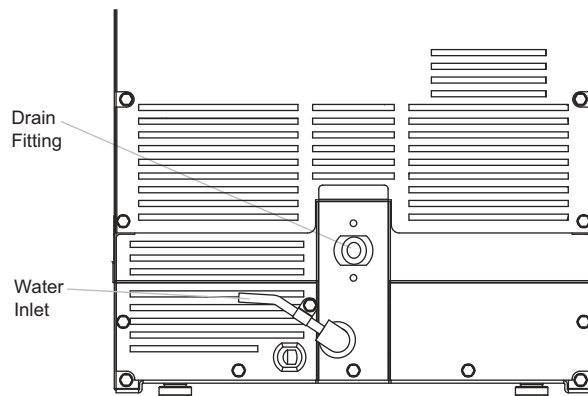
IMPROPER WATER SUPPLY AND DRAIN CONNECTIONS CAN RESULT IN PERSONAL INJURY AND SUBSTANTIAL PROPERTY DAMAGE. THESE CONNECTIONS ARE THE RESPONSIBILITY OF THE OWNER/OPERATOR.

11. Connect electrical plug to grounded (three prong), polarized outlet. See Electrical Requirements found earlier in this section.

⚠ WARNING

THE ICE MACHINE MUST BE GROUNDED IN ACCORDANCE WITH NATIONAL AND LOCAL ELECTRICAL CODES. DO NOT USE AN EXTENSION CORD OR ADAPTER.

12. Place ice machine back in position and check leveling again. Make any necessary adjustments.



Water Line and Drain fitting at Rear of Unit

(CONTINUED ON NEXT PAGE)



13. Prepare sanitizer solution and sanitize the ice machine according to In Place Cleaning/Sanitizing instructions found in the Installation & Operation manual.
14. Put one gallon (4 L) of cold water into a container that will easily pour under the lifted water shutters. Refer to page 17 to identify water shutters. Open shutters and add one gallon (4 L) of cold water. Watch for proper drainage.
15. Press POWER button.
16. At initial start-up, ice machine will need approximately 30 minutes to freeze ice and up to 5 minutes to harvest the ice. Wait for first cycle of cubes to drop to ensure proper installation.

⚠ CAUTION

Do NOT cover the kickplate area

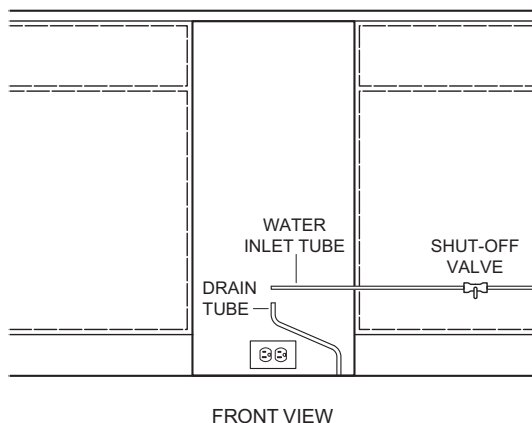
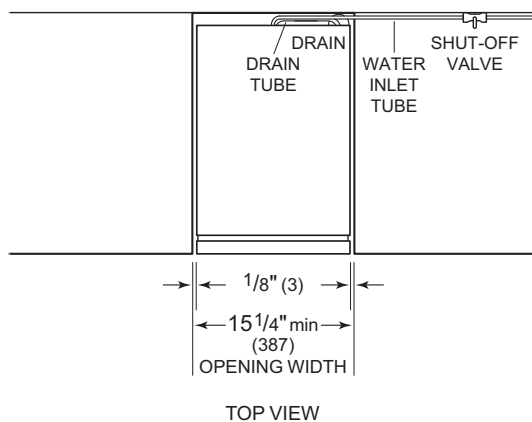
The unit must be allowed to have ventilation through these fins. The door panel may hang in front of the fins, but a decorative kickplate must not cover the fins.

It is possible to paint the kickplate another color. Follow these easy steps:

- Rough up surface to be painted with fine grit sandpaper.
- Wipe with alcohol to ensure it is clean and dry.
- Use an appliance or industrial grade, oil base, high gloss enamel paint.

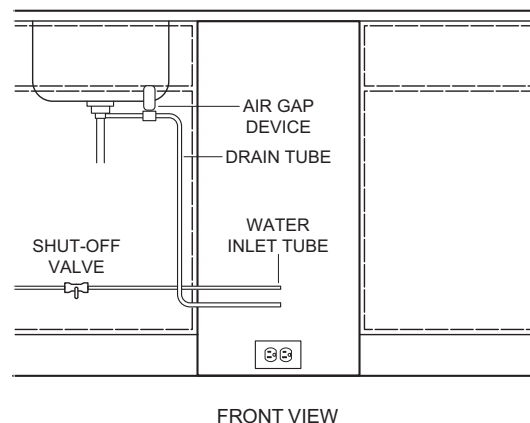
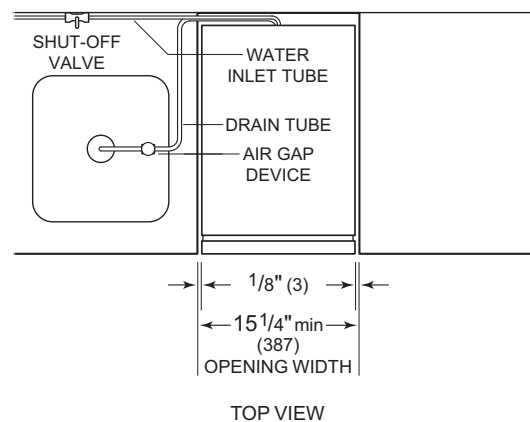
INSTALLATION SPECIFICATIONS

Gravity Drain Model



INSTALLATION SPECIFICATIONS

Drain Pump Model

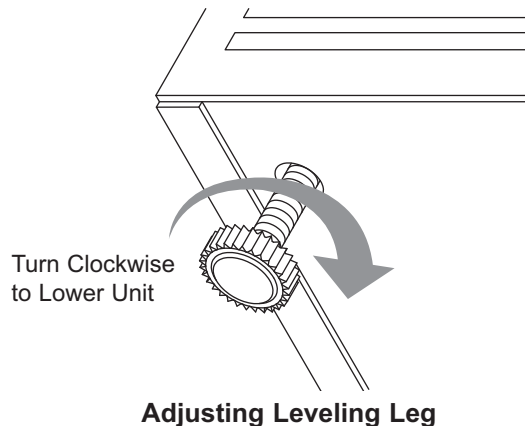


Dimensions in parentheses are in millimeters unless otherwise specified.



LEVELING

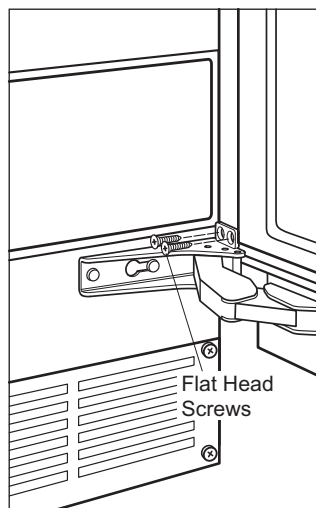
1. Adjust the levelers close to desired height.
2. Move the bin into its final position.
3. Level the ice machine to assure that the bin door closes and seals properly. Use a level on top of the bin. Turn the base of each foot as necessary to level the bin. Refer to the illustration below.



SECURE THE ICE MACHINE

To secure the ice machine, install two #8 x 1/2" flat head screws through each hinge. Refer to the illustration below.

NOTE: If the door swing is to be changed, refer to *Reversing the Door Swing* before securing the unit.



Secure Ice Machine to Cabinets

SIDE PANELS

With the Sub-Zero ice machine, the side panels must be securely fastened to the adjacent cabinets and floor.

Panels should be fastened to the floor and walls using 'L' brackets (hardware not provided). To help move the unit into place, rout out an area in the floor so the 'L' bracket will sit flush with the floor level. Brackets and screws are provided for mounting the unit to adjoining cabinets and side panels.

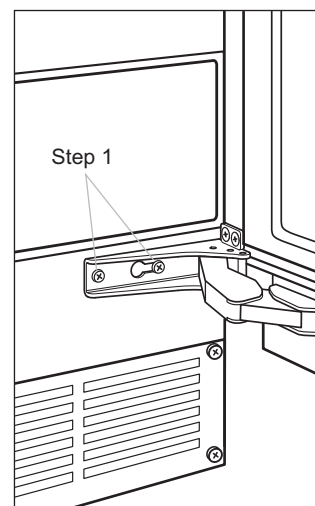
REVERSING THE DOOR SWING

The hinged side of the door may be reversed to the other side if desired. The Sub-Zero ice machine is shipped with the door hinged at the right. The door and hinges are designed for placing the hinges on either the right or the left side of the unit. Moving the hinges to the left in the pre-drilled holes, allows the door to pivot from the left side. Refer to the illustrations below.

NOTE: The plastic molding which covers the top area of the door, packaged with the ice machine, is required for this procedure.

1. To begin, remove the four screws that secure the door hinges to the ice machine. Refer to the illustration below.

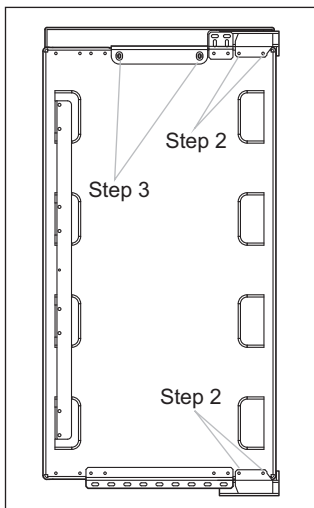
NOTE: Remove the shim located between the cabinet and bottom hinge, this shim will transfer to the left side bottom hinge.



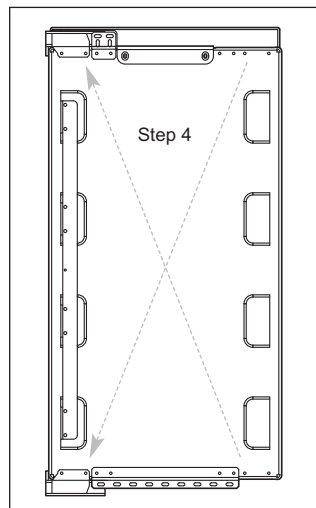
Remove Door

(CONTINUED ON NEXT PAGE)

2. Remove the hinges from the door by removing the four screws (two each hinge) that secure the hinges to the door. Refer to the illustration below.
3. Remove the upper plastic trim piece (right hand configured) from the door by removing the two screws that secure it to the door. Then replace it with left hand trim piece. Refer to illustration below.
4. Transfer the hinges to the left side of the door and re-attach. The upper hinge will need to become the lower hinge and the lower hinge will now need to become the upper. Refer to the illustration below.

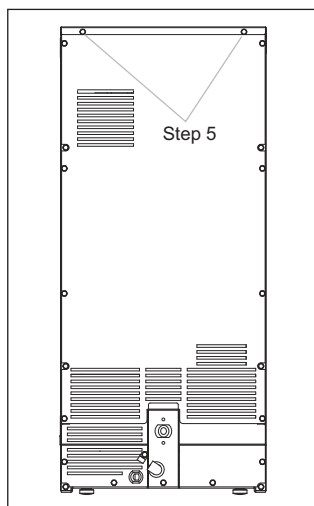


**Remove Hinges
and Plastic Trim**



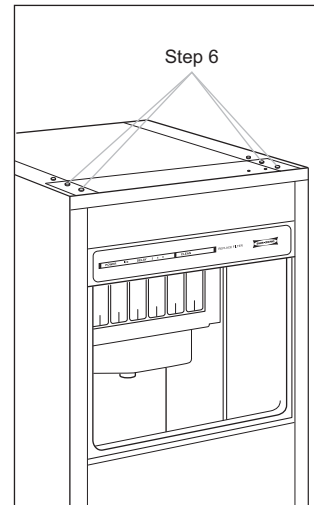
Hinge Transfer

5. Remove the top ice machine cover by removing the two screws along the back of the unit. Refer to the illustration below.



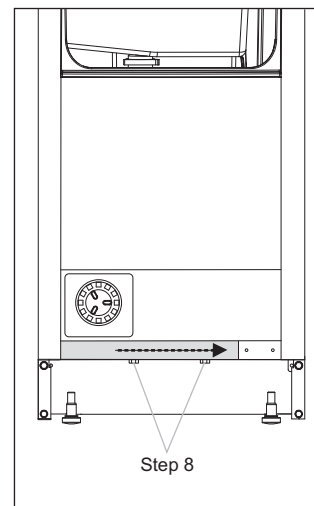
Remove Top Cover

6. Remove four screws from the front top rail. Refer to the illustration below.
7. Pivot top rail end for end to expose the two left hand top hinge screw holes and reinstall.



Reversing Top Rail

8. Remove 2 screws from bottom trim plate and slide to cover right hand hinge mounting screw holes and expose left hand hinge mounting screw holes. Refer to illustration below.



Repositioning Slide Rail

9. Install the door using the left-hand door mounting holes. Install shim removed in step 1 between the hinge and cabinet.
10. Check the operation of the door by opening.



DOOR PANEL INSTALLATION

Be sure of the door panel size and placement before proceeding with the installation. If there are questions, contact the Sub-Zero dealer or cabinet supplier. Instructions regarding sizing of the door panel are provided in the Sub-Zero design guide.

For door handle hardware, a D-style pull centered on the edge opposite the door hinge side is recommended. Screw heads may have to be countersunk to ensure that the hardware does not interfere with the panel fitting flush with the unit door.

DOOR PANEL DIMENSIONS

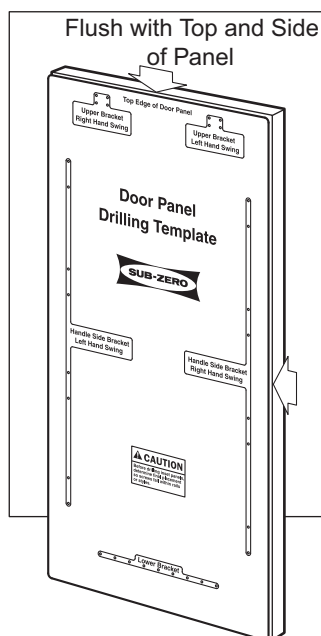
Door Panel Width – 1/8" (3) reveal	15" (381)
Door Panel Height – 1/8" (3) reveal 4" (102) toe space	30-3/8" (772)
Door Panel Thickness	5/8" (16) min
Door Panel Weight	15 lbs (6.8 kg) max

Dimensions may vary +_ 1/8" (3).

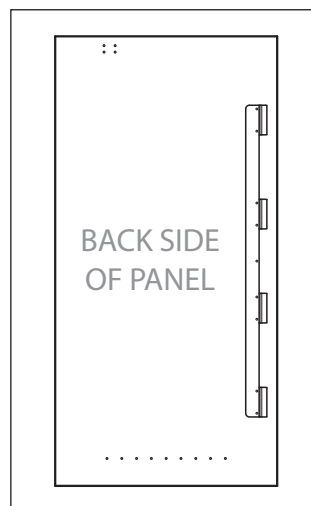
PANEL DESIGN NOTE: Additional panel design information can be found in the Sub-Zero design guide. Check our website at subzero.com.

⚠ CAUTION

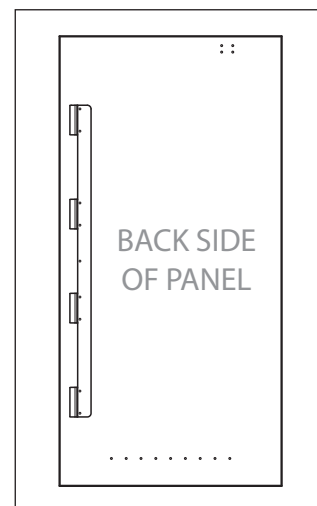
Exercise caution when drilling holes for hardware. This is especially critical with inset panels.



Drill Template Position



Right-Hand Door Panel



Right-Hand Door Panel

Panel Preparation and Installation

1. Remove the handle side bracket attached to the front of the door and set aside.
2. Place the door panel lying face down on a protected surface to ensure the front is not scratched or damaged.
3. Position the template provided flush with the upper edge of the panel. Be sure to follow the exact location for the RH or LH door position. Refer to the illustration below.

NOTE The door panel is being viewed from the back side in the illustration. The overall size of the panel shown is the minimum size necessary to cover the door of the unit. The exact measurements of the door panel may vary depending on the particular installation being followed.

4. Once the proper position for the hardware has been located, mark the holes, remove template, and drill pilot holes for mounting of the hardware.

NOTE: It is recommended to start the first few holes, positioning the hardware, drilling remaining pilot holes, and securing the mounting brackets with the #8 x 1/2" screws. Refer to the illustrations below.

5. Install the panel onto door by engaging the tabbed bracket to the door first and then sliding the hinge side hardware over the positioning screws. There will be a 1/4" inch adjustment, up and down, side to side, with this hardware.
6. Once the panel is in place, attach the remaining #8 x 1/2" screws to the hinge side mounting bracket and install decorative caps.

⚠ CAUTION

If the reveal on the hinge side of the door panel is less than 1/4", and the panel has a square corner, severe finger pinching or damage to the unit may occur.

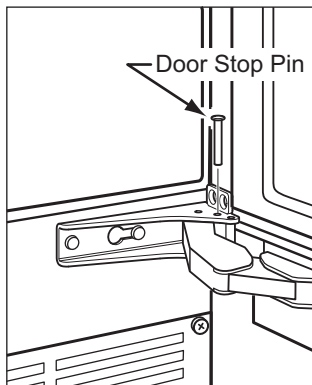
90-Degree Door Stop Installation

Certain installations may require the door to stop at 90-degree instead of the full 115-degrees. A door stop pin is supplied with the unit. To install the 90-degree door stop pin (Refer to illustration below):

1. Open door to approximately 80 degrees.
2. Insert 90-degree stop pin down through holes in bottom hinge bracket.
3. Insert 90-degree stop pin up through holes in top hinge bracket.

NOTE: The pins must be inserted until their heads makes contact with the hinge brackets.

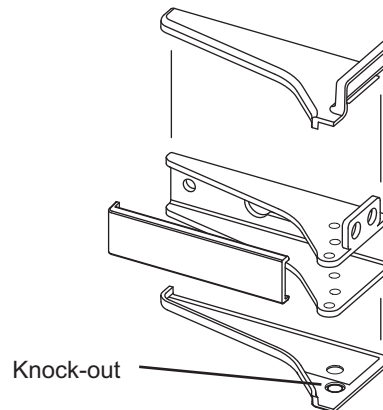
4. Check for proper door operation.



90 Degree Door Stop

Hinge Cover Installation**NOTES:**

- Do NOT Install the hinge covers until after installation of the ice machine is complete.
 - The 90-degree door stop must be installed prior to installing the hinge covers.
 - If the 90-degree stop pins are installed, it will be necessary to remove the knock-outs from the hinge cover opposite the head of the pin.
 - Hinges must be free of dirt and grease before attempting to install the hinge covers.
1. Remove backing paper from adhesive pads of upper and lower hinge covers, then adhere covers to top and bottom of each hinge bracket as shown below.
 2. The center hinge covers are magnetic. Install them to center of each hinge bracket as shown illustration below.



Hinge Cover Installation