

### Pre-Installation Considerations

#### Location

The unit may be closed in on the top, rear and both sides, but the front must be unobstructed for air circulation and proper operation. Installation should be as such that the cabinet can be moved forward for servicing, if necessary.

The installation site should be well ventilated with the temperature above 55°F (13°C) and below 110°F (43°C). The best results are obtained between 70°F (21°C) and 90°F (32°C).

The unit must be installed in an area protected from the elements, such as wind, rain, water spray or drip.

Provision for electricity, water and drain should be determined.

#### Electrical Connection

The unit will require an electrical branch circuit of:

- 115 Volts
- 60 Hertz
- 1 Phase
- 15 Amp delayed action fuse or circuit breaker.

It is recommended that the ice maker is the only appliance plugged into the receptacle. Do not use an extension cord. Do not use a receptacle that is controlled by a wall switch. (See Figure 2-1)

#### ⚠ WARNING

**ELECTRICAL GROUND IS REQUIRED ON THIS APPLIANCE. DO NOT, UNDER ANY CIRCUMSTANCE, REMOVE THE POWER SUPPLY GROUND PLUG.**

#### ⚠ WARNING

##### **ELECTRIC SHOCK HAZARD**

**IMPROPER CONNECTION OF THE EQUIPMENT GROUNDING CONDUCTOR CAN RESULT IN A RISK OF ELECTRICAL SHOCK.**

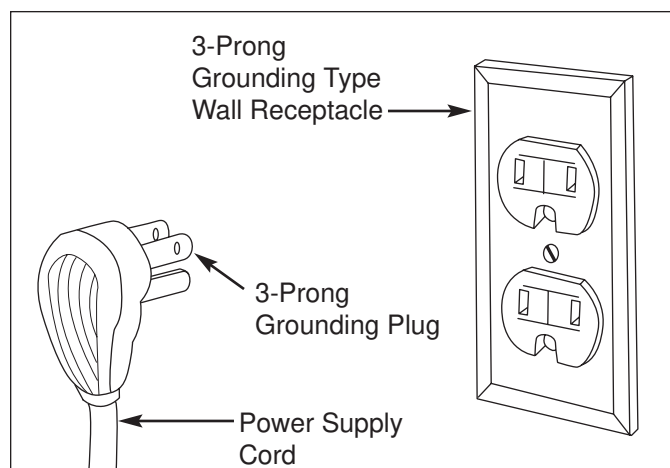
**DO NOT USE A TWO PRONG ADAPTER.**

**DO NOT USE AN EXTENSION CORD.**

**DO NOT HAVE A FUSE IN THE NEUTRAL OR GROUNDING CIRCUIT.**

**DO NOT CONNECT TO ELECTRICAL SUPPLY UNTIL APPLIANCE IS PERMANENTLY GROUND-ED.**

**FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN FIRE, ELECTRICAL SHOCK OR DEATH.**



**Figure 2-1. Power Cord & Wall Outlet**

## Water Connection Requirements

Materials needed for installation:

- 1/4-in. O.D. copper tubing
- 1/4-in. outlet, saddle-type shut-off valve  
(Part No. 4378392)
- 1/4-in. x 1/4-in. tube union  
(Part No. 4378972)

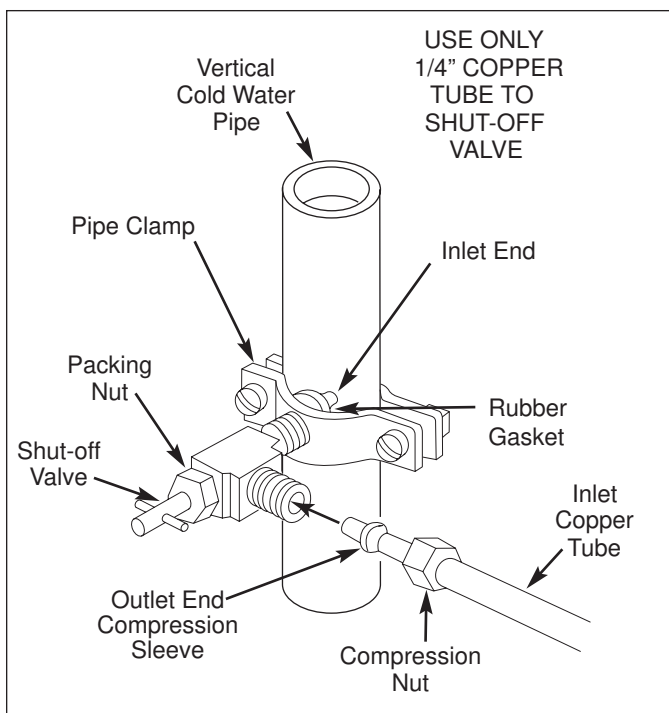
These materials can be obtained locally or from your FSP Parts Distributor by ordering Ice Maker Installation Kit No. 978567, which includes 25 feet of copper tubing. Do not use plastic tubing because it becomes brittle with aging.

Make sure the saddle valve complies with local plumbing codes. Do not use a self-piercing type or 3/16-inch saddle valve because they reduce water flow and clog more easily.

For proper operation, the ice maker should be connected to an active water supply line delivering cold water at pressures between 20 and 120 pounds per square inch. (See Figure 2-2)

### ⚠ CAUTION

**Do not install copper tubing in an area where temperatures drop below freezing. To do so may result in water damage.**



**Figure 2-2. Water Connection Components**

## Installation of Line Tapping Device and/or Shut-off Valve

1. Select the point on an active cold water supply line convenient to the unit where connection is to be made. A point on a vertical section of 1/2-in. or 3/4-in. line leading to the kitchen sink is ideal. If installed on a horizontal line, place valve on top or side of line; never on bottom. (This will keep water away from the drill during installation and helps normal sediment from collecting in the valve.) Turn off the water supply and clear line of pressure.
2. Provide a length of 1/4-in. O.D. copper tubing for connecting the ice maker to the water supply. To determine the length, measure distance from the unit to the connecting point on supply line, and add approximately three feet to allow for connection to the water valve in the unit. Be sure both ends of copper tubing are cut square.
3. Drill a 1/8-in. hole in water supply line at point selected for making connection. Care must be taken to drill a clean hole perpendicular to wall of supply line. Be sure electric drill is grounded, or use a hand drill to avoid shock.
4. Be sure the shut-off valve is in the OFF position. Turn clockwise until the stem is seated.
5. Assemble shut-off valve and pipe clamp and mount it on the supply line. The inlet tube of the shut-off valve must extend through the rubber washer and into the 1/8-in. hole drilled in the line. Tighten the packing nut. Tighten the clamp screws just enough for the rubber gasket to ensure a watertight seal. Clamping too tightly may crush the copper tubing.
6. Slip the compression nut, and then the sleeve, on the end of the 1/4-in. tubing. Insert the end of the tube into the outlet end of the shut-off valve as far as it will go, then screw the compression nut onto the shut-off valve enough to get a watertight seal. Place the other end in a sink drain or bucket.
7. Turn on the main water supply. Turn the handle on the shut-off valve counterclockwise to open the valve and flush the tubing until the water runs clear, then close the valve.

**NOTE:** Make sure there is a vigorous flow of water (volume and pressure).

8. Bend the tubing to run it to the installation location. Position the tubing so it can enter the access hole located in the right rear of the ice maker cabinet. The tubing will extend beyond the cabinet front when the cabinet is pushed back into position.

## Drain Connection Requirements

The ice maker has a gravity drain. The ideal installation has a standpipe (1-1/4-in. minimum) installed directly below the outlet of the drain tube. (See Figure 2-3 and Figure 2-4)

The drain tube must run into an open drain standpipe. The drain tube cannot be “sealed” into the standpipe.

Because the drainage water will probably be very cold, it may be desirable to insulate the drain standpipe thoroughly up to the drain inlet to minimize condensation on the drain standpipe.

When a drain connection below the ice maker is not available, a pump may be used to lift the water to an available drain.

Condensate Pump Kit No. 759064 is no longer available as a service replacement. If a replacement is needed, purchase a reliable condensate pump locally and install Part No. 759014 shunt plug into the ice machine pump receptacle. The condensate pump can be installed on the floor directly behind the unit where it is installed. Install the pump with the discharge tube to the rear. Run a 5/8-in. I.D. plastic tube from the bin drain directly into the pump inlet.

## How It Works

The pump recommended for use with an undercounter or freestanding ice maker is a pressure activated, high speed pump which will lift water (from melting ice and fill cycles) to a place where it can be disposed of.

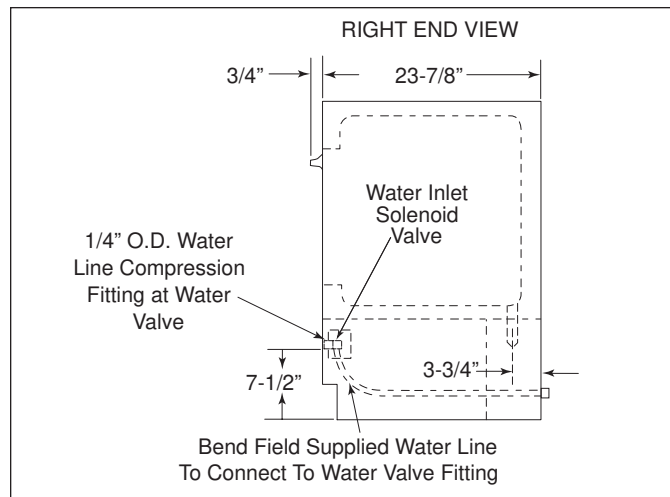
The pump installs in the compartment below the ice maker storage bin and operates on 120VAC 60Hz current. It receives the AC power from a receptacle that is shunted except when the pump is present. Remove the shunt, and plug pump into receptacle.

The pump connects directly to the drain stub of the storage bin. As the sealed chamber of the pump fills, the pressure from the water actuates the pressure switch, and causes the pump to run and pump water from the chamber. (See Figure 2-5)

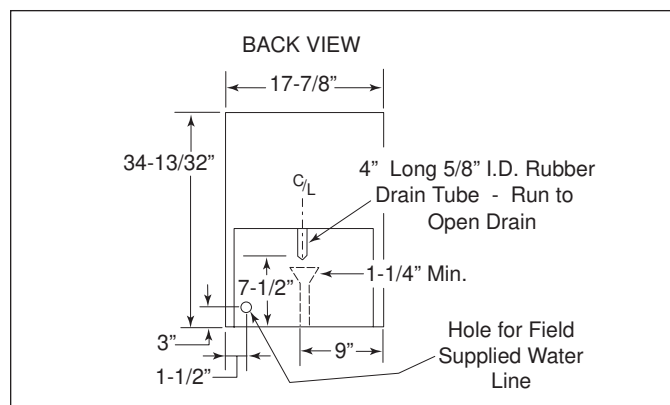
Water exits through the tube leading to the drain and is prevented from re-entering the chamber by a check valve in the output fitting on the pump.

The impeller rotates at 3000RPM in a molded housing designed to prevent cavitation.

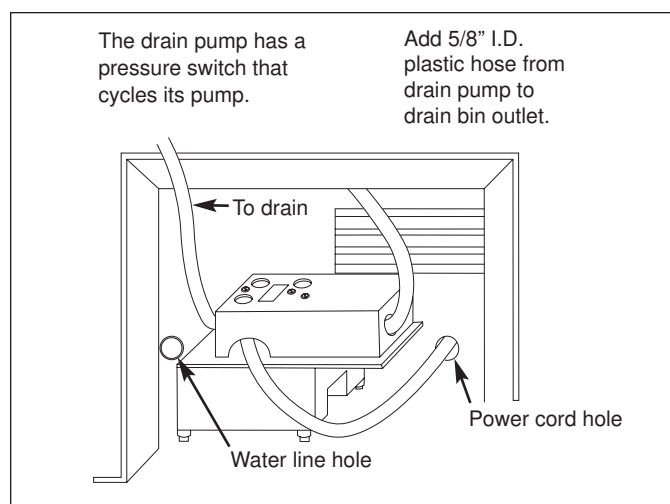
The pump is a sealed unit that depends on the weight of the water accumulating in the drain from the storage bin to activate it. Make sure pump chamber and lid are sealed to prevent water leakage, and that all connections are water tight.



**Figure 2-3. Water System Connections**



**Figure 2-4. Drain Tube Location**



**Figure 2-5. Condensate Pump**