

# Maximicer®

## Water Chilling System

### Installation Guide for Models ICE-1000, ICE-1800, & ICE-H



#### Equipment Required:

##### Tools:

Tubing Cutter  
PVC Cutter  
Power Screwdriver or Drill  
Channel-lock Pliers  
Adjustable Wrench  
Measuring Tape

##### Materials:

10 ft of 3/8" (0.95cm) Copper Tubing  
10 ft of 3/4" (1.91cm) PVC Pipe  
(1) PVC 3/4" (1.91cm) 'T' Connection  
(5) PVC 3/4" (1.91cm) 90° Connections  
(2) Brass 3/8" (0.95cm) Tubing Unions  
PVC Cement

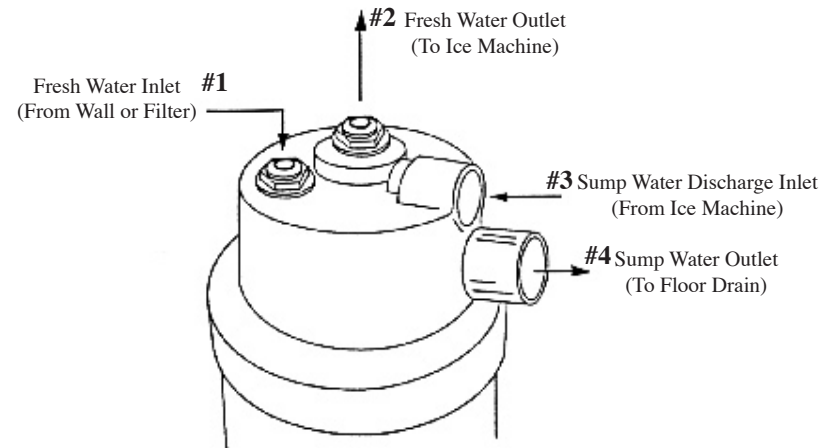
*Note: ICE-H model requires the use of  
1/2" (1.27cm) copper tubing and unions*

**Average Installation Time: 45 to 60 minutes**

## Installation Guide

This guide shows how to install the ICE-1000, ICE-1800, and ICE-H models of the Maximicer Water Chilling System. If you encounter any problems after installing Maximicer, refer to **Troubleshooting** on the last page of this guide, or call for technical assistance at (800) 289-9098.

### Maximicer Connections



### Fresh Water Connections

Maximicer units use Super Speedfit® tubing fittings for the fresh water line connections that require no tools. Tubing (copper or plastic) is simply inserted into the fitting collet to effect a secure connection.

The tubing should be inserted approximately 3/4" (1.91cm) until it bottoms completely in the fitting to insure that there will be no leaks.

The tubing end to be inserted should be straight and have a clean round cut. If the tubing is out-of-round, then carefully make a new cut before inserting into the fitting.

#### Secure connections are simple

Cut the tube square and push past the O-ring to the tube stop  
Tube is secured in position

#### Disconnection is just as easy

Push collet against body  
Slide tube out of fitting

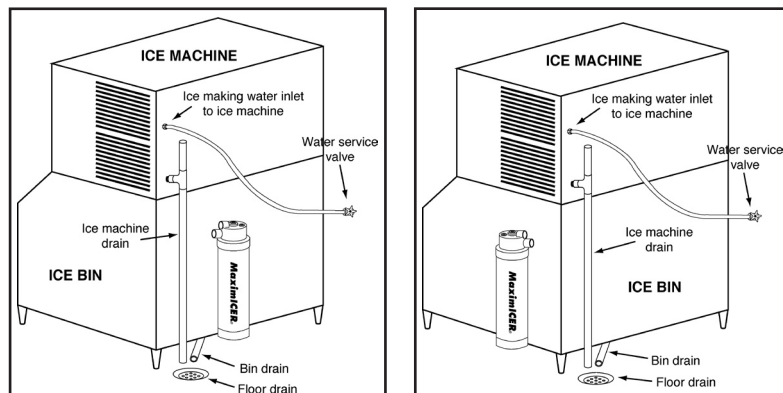
### Sump Water Connections

Maximicer units require the use of 3/4" (1.91cm) PVC pipe for the sump water connections. It is important to glue all connections with PVC cement. Follow the specific installation procedures to make certain there will not be a vacuum block or any reduction in water flow to the floor drain.

1 Turn OFF power and water supply valve.

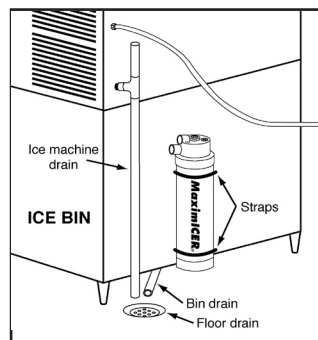
2 Choose proper location.

Maximicer should be installed behind or to the side of the ice machine bin at least 6 inches (15cm) beneath the height of the ice machine's sump water discharge outlet. **WARNING: Do not mount the Maximicer above the ice machine's sump water discharge outlet.**



3 Secure with mounting straps.

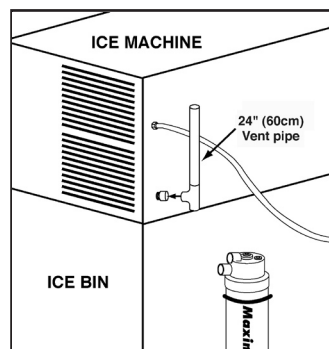
Health Codes in some areas require that Maximicer be at least 6 inches (15cm) off the floor. Use the enclosed mounting straps to secure Maximicer to either the ice bin or to the wall. Otherwise, place the unit on the floor.



4 Install PVC vent pipe.

First install a vent pipe, or vacuum breaker, at least 24 inches (60cm) in length. Using a "T" connector install the vent pipe as close as possible to the sump drain exiting the ice machine.

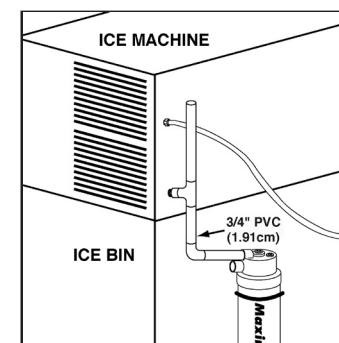
**WARNING: Maximicer will not function properly without the use of a vent pipe.**



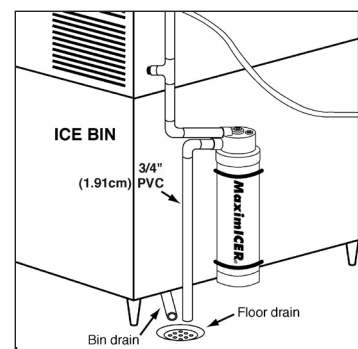
5 Plumb PVC line from ice machine to Maximicer.

Attach a PVC line from the vent pipe at the ice machine drain outlet to the upper PVC connection on the Maximicer (connection #3). Be sure to plumb a vertical line down from the ice machine drain and then a horizontal line to the Maximicer.

**WARNING: Water will over flow into the ice bin if the PVC line is installed horizontally after exiting the ice machine.**



6 Plumb PVC line from Maximicer to floor drain.



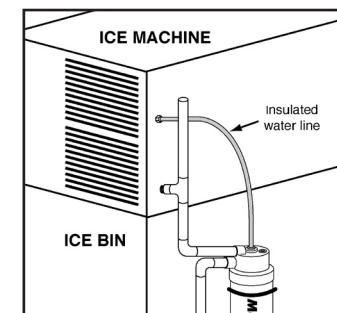
Connect a PVC line to the lower PVC connection on the Maximicer using a 90° fitting (connection #4). Plumb a vertical line down then run horizontal to the floor drain.

**WARNING: Drain water will not flow properly if the line exiting the Maximicer is horizontal.**

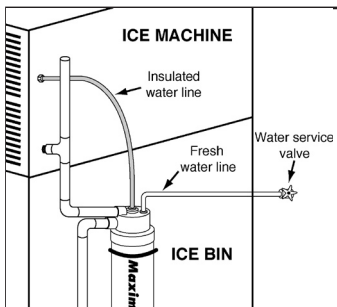
7 Cut existing water line and insert into Maximicer.

Carefully cut the existing fresh water line from the wall or after the water filter with enough tubing to reach from the back of the ice machine to the top of the Maximicer. Insulate the tubing and insert into the center fitting on the top of the Maximicer unit (connection #2).

**IMPORTANT: If you are unfamiliar with Speedfit connectors, review the "Fresh Water Connections" section at the beginning of this guide.**



## 8 Connect the Fresh Water Source into Maximicer.



Insert the tubing containing the fresh water source into the outer fitting (connection #1) on the top of the Maximicer unit. If additional tubing is required between the Maximicer and the wall outlet or water filter, connect additional tubing to existing tubing with a compression union.

## 9 Turn ON fresh water valve and check for leaks.



After turning ON the fresh water supply, check the connections on top of the Maximicer and all other connections for leaks. Check the water supply to the sump inside the ice machine by depressing the float valve or by activating the solenoid water valve. If you encounter any leaks or problems refer to the **Troubleshooting** section.

## 10 Check for PVC drain leaks, then turn power ON.

Check the PVC drain lines for leaks by pouring water through the vent pipe until it is seen exiting the Maximicer into the floor drain, then turn the ice machine power ON. If you encounter any PVC drain water problems refer to the **Troubleshooting** section.

**Installation Finished!**

## **Troubleshooting**

**The water lines are leaking water at the Speedfit® fittings.**

The tubing inserted into the fitting is either not completely pushed in all the way OR the tubing end is out-of-round. Turn the water source OFF to relieve line pressure, then remove the tubing from the fitting (refer to the Fresh Water Connections diagram to remove tubing). Inspect the end of the tubing to make certain there is a clean square cut and that the tubing is perfectly round. The tubing should also be straight so it can be inserted completely (about 3/4 inch (1.91cm)). Reinsert the tubing into the fitting and press in firmly until the tubing “bottoms” securely. Turn the water valve ON and check again for leaks.

**When the ice machine is turned ON, there isn't any water entering the sump to make ice.**

Sometimes when the existing fresh water lines are cut and bent to be inserted into the Maximicer some particulate matter can be broken loose and cause the water supply within the ice machine to become clogged. Turn the water source valve OFF. Inspect all needle valves, filter screens, and any other water supply valves inside the machine. Remove any debris found, then turn water source ON and depress float switch in the sump to make certain the restriction was removed.

**When the ice machine is running, there is water overflowing out of the top of the vent pipe, the Maximicer seems to be clogged.**

Either extend the height of the vent pipe if space permits OR use a larger diameter of PVC pipe in the existing space. Both will allow for a greater volume of water to rise in the vent pipe to overcome the air lock in the drain system.

**If your problem is not addressed above please call 1-800-289-9098 for technical assistance.**

# **Maximicer®**

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