

Drain – Electrical – Water – Space/Environment

The utility guidelines outlined in this document are to ensure that manufacturer machine specifications are satisfied, and that customers can safely perform minor maintenance tasks if needed. All utilities must be accessible within 6' of the machine location. Minor variations of certain utilities may be acceptable but require Easy Ice approval.

Drains

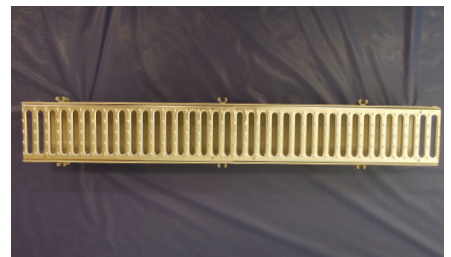
A **floor drain** is the standard and is preferred for all machine types. Floor drains are any drain recessed in the floor or at floor level, and the opening for the drain must be at least 3" in diameter



FLOOR DRAIN



FLOOR SINK



TROUGH

A **wall drain** may be an acceptable substitute if a floor drain is not available, but needs to satisfy certain conditions:

1. Wall drains require a minimum of 2" diameter PVC and a 4" bell at the collection point.
2. The elevation difference between the top of the drain's bell and the top of the horizontal drain pipe must be at least 4".
3. Wall drains with sewer connections require a p-trap as shown in picture.



WALL DRAIN WITH P-TRAP

Pumps

If the top of the provided drain is more than 4" above the floor level, a condensate pump may be used for the bin drain **ONLY**. Condensate pumps **CANNOT** be used for the ice machine drain. Easy Ice can provide pump recommendations and instructions, however, customers are solely responsible for the purchase, maintenance and performance of any condensate pump that is used in conjunction with Easy Ice equipment.

Electrical connection

A dedicated (unshared) circuit and receptacle must be supplied for each ice machine. Voltage and amperage requirements are dependent on machine make/model.

110v Machines

110v Machines

110v/20amp grounded circuit with a non-GFCI Receptacle. Receptacle A or B is acceptable. Additional outlet on receptacle cannot be used by any other device.



A



B

220v Machines

Higher production machines require dedicated single-phase circuits, 220v, 20 or 30 amps, and a corresponding receptacle. Providing Easy Ice with the amperage and receptacle details of your electrical circuit will help us determine the best machine that will be compatible with your current configuration, and aid us in making recommendations for any modifications that may be needed. General guidelines for machine sizing, required amperage, and preferred receptacle are below, some exceptions may apply.

220v Machines Rated up to 1,300lbs per day

Machines rated up to 1,300lbs per day typically require 220v/20amp circuits. Option A is the preferred outlet for 4-wire circuits, and option B for 3-wire circuits.



NEMA L14-20



NEMA L6-20

220v Machines Rated over 1,300lbs per day

Machines rated over 1,300lbs per day typically require 220v/30amp circuits. Option C is the preferred outlet for 4-wire circuits, and option D for 3-wire circuits.



NEMA L14-30



NEMA L6-30

NEW CONSTRUCTION

We recommend installing a dedicated 4-wire circuit (2 load, 1 neutral, 1 ground) using 10 AWG wires rated for 30 amps. Breaker and receptacle type can be easily modified to accommodate most 220v equipment.

Water Supply

A dedicated **water supply line** with a **shut off valve** and **outlet connection** is required for each ice machine. Line size requirements are based on the water flow requirements for the machine—which are rated in gallons per minute (GPM).

Supply line sizing

Machines Rated up to 750lbs per day

Require a minimum water flow of 3 GPM. Recommended water line size is 1/2", a 3/8" line may be acceptable if water flow is sufficient to meet machine GPM requirement.

Machines Rated over 750lbs per day

Require a minimum water flow of 5 GPM. Recommended water line size is 3/4", a 1/2" line may be acceptable if water flow is sufficient to meet machine GPM requirement.

Shut off valve and Outlet Connection

A ball valve with a 1/2" FPT outlet (A) is preferred, a stop valve with a 3/8" compression outlet (B) is acceptable.



A



B

NEW CONSTRUCTION

We recommend installing a 3/4" water line with a ball valve and 1/2" FPT outlet.

Space

There are three main environmental components that impact the ice machine's performance: **space, temperature, and cleanliness.**



Space

The location for the ice machine needs to include an allowance for free space around the machine. This free space is crucial for proper ventilation, and it allows appropriate access to perform any required maintenance or cleaning. We recommend an additional 18" of space on both sides and above the machine.

While they may have sufficient space for the equipment, confined areas such as closets, cubbies, small utility rooms and cut-ins pose significant ventilation challenges and can typically not be used.

Temperature

The optimum practical operating temperature range for the machine is 70-75°, and it is capable of producing reliably in environments ranging from 55-90°. Machines in environments on either end of this temperature range will see production time and volume impacted. Prolonged exposure to extreme temperatures will cause malfunction and possibly damage the machine.

While in use, the machine will add a significant amount of heat to the room that must be accounted for. Ventilation, cooling and/or exhaust are required in the space to ensure environmental temperatures remain within the stated operating range.

Cleanliness

Keeping the machine clean is essential to its continued optimum performance. Environments with high contents of flour, grease, dust, dirt, alcohol and yeast can create significant problems including lower production, mold and even breakdowns.

While our program includes two annual cleanings, machines in these types of environments may require additional treatments* to ensure machine reliability such as:

- a) additional cleanings,
- b) Ozone Easy Clean—used in high organic material environments,
- c) enhanced air filtration—used in high grease and particulate environments.

** Incremental pricing and/or customer responsibilities may apply.*

Guideline Overview

Our utility guidelines were developed by combining manufacturers specifications with over a decade's worth of field experience maintaining thousands of ice machines across the country. We know that machines that are installed with the proper utilities in a good environment and are regularly maintained can be relied on for a steady supply of clean ice for years.

We view ourselves as business partners with you in taking care of your ice needs, and we depend on you to assist us in your venture. Working with us to help keep the machine clean, informing us of any major changes in your environment, and immediately alerting us to machine problems will ensure your machine continues to provide you the ice you need on a daily basis.