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## I. Specifications

### A. Electrical and Refrigerant Data

The rating label and nameplate provide electrical and refrigerant data. The rating label can be seen by removing the front panel. The nameplate is located on the rear panel. For certification marks, see the nameplate.

We reserve the right to make changes in specifications and design without prior notice.

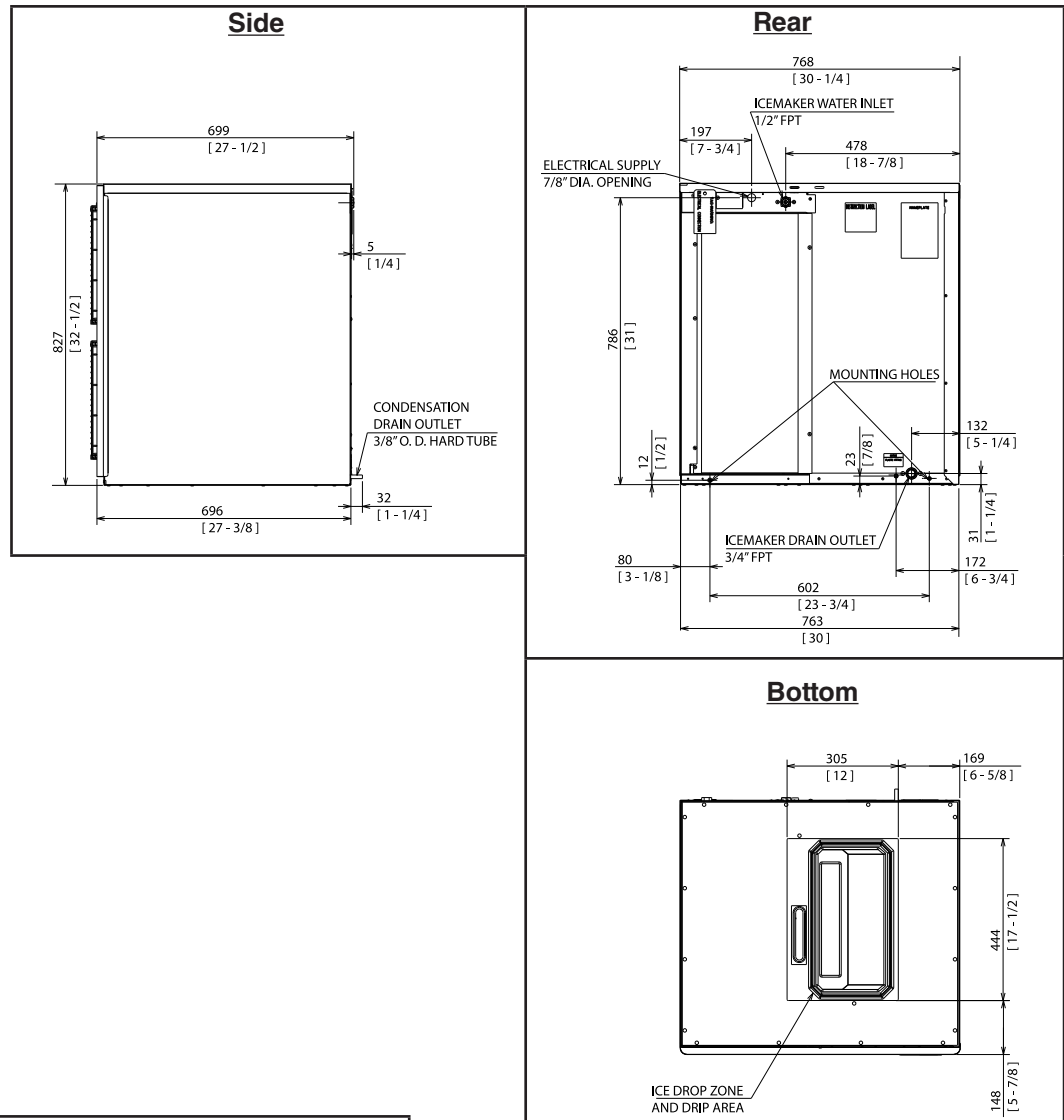
#### 1. KM-1100MAJ50

Single Phase	
Model Number	KM-1100MAJ50
SERIAL NUMBER	
AC SUPPLY VOLTAGE	230V
FREQUENCY	50Hz
AMPERAGE	11.2A
REFRIGERANT	404A 1400G
	GWP=3922, CO2=5.491 <sup>†</sup>
INSULATING BLOWING GAS	HFC-FREE
WEIGHT	118KG
CONDITIONS	CLASS T
MAXIMUM OPERATING PRESSURE	2.88MPA

## B. Dimensions/Connections

### 1. KM-1100MAJ50

Units: mm [in.]



### NOTICE

- Allow 12" (30 cm) clearance at rear, sides, and top for proper air circulation and ease of maintenance and/or service should they be required.
- The ice storage bin opening must match the bottom opening as in the illustration.

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## II. Installation and Operating Instructions

### **⚠ WARNING**

- The appliance must be installed in accordance with applicable national, state, and local codes and regulations.
- Failure to install, operate, and maintain the appliance in accordance with this manual will adversely affect safety, performance, component life, and warranty coverage and may result in costly water damage.
- **CHOKING HAZARD:** Ensure all components, fasteners, and thumbscrews are securely in place after installation. Make sure that none have fallen into the dispenser unit/ice storage bin.

### A. Location

#### **NOTICE**

- The icemaker is not intended for outdoor use. Normal operating ambient temperature must be within 45°F to 100°F (7°C to 38°C); Normal operating water temperature must be within 45°F to 90°F (7°C to 32°C). Operation of the icemaker, for extended periods, outside of these normal temperature ranges may affect icemaker performance.
- The icemaker will not work at sub-freezing temperatures. To prevent damage to the water supply line, drain the icemaker if the air temperature is going to go below 32°F (0°C). See "IV. Preparing the Icemaker for Periods of Non-Use."

- The icemaker should not be located next to ovens, grills, or other high heat producing equipment.
- Allow 12" (30 cm) clearance at rear, sides, and top for proper air circulation and ease of maintenance and/or service should they be required.
- The location should provide a firm and level foundation for the appliance.

## B. Checks Before Installation

- Visually inspect the exterior of the shipping container and immediately report any damage to the carrier. Upon opening the container, any concealed damage should also be immediately reported to the carrier.
- Remove the shipping carton, tape, and packing material. If any are left in the appliance, it will not work properly.
- See the nameplate on the rear panel, and check that your voltage supplied corresponds with the voltage specified on the nameplate.
- Remove the panels to prevent damage when installing the appliance. See "II.C. How to Remove Panels."
- Remove the package containing the accessories.
- Remove the protective plastic film from the panels. If the appliance is exposed to the sun or to heat, remove the film after the appliance cools.
- Check that the refrigerant lines do not rub or touch lines or other surfaces, and that the fan blade (if applicable) turns freely.
- Check that the compressor is snug on all mounting pads.
- The icemaker can be installed on a storage bin 30" wide or wider. Hoshizaki Ice Storage Bins, Model B-500 series is recommended. For further options, contact your local Hoshizaki distributor.

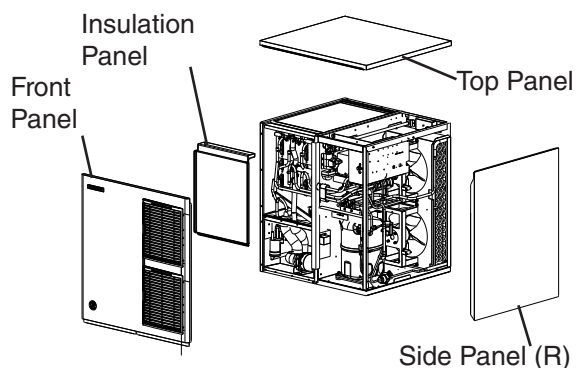
Model Number	Bin Width	Recommended Hoshizaki Ice Storage Bin
KM-1100MAJ50	30" or Wider	B-500 Series

For further options, contact your local Hoshizaki distributor.

## C. How to Remove Panels

### See Fig. 1

- Front Panel: Remove the screw. Lift up and pull towards you.
- Top Panel: Lift up at front slightly, push rearward and lift off.
- Right Side Panel: Remove the screw. Slide forward slightly and lift off.
- Insulation Panel: Lift up slightly, and pull towards you.



**Fig. 1**

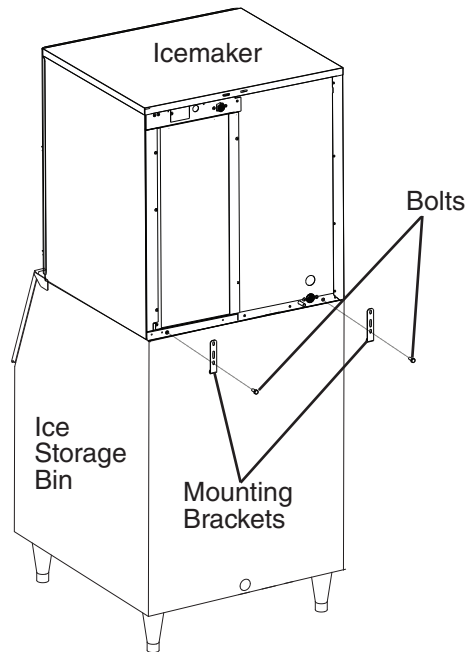
## D. Setup

### 1. Ice Storage Bin and Icemaker Setup

#### **⚠ WARNING**

The installer must ensure the ice storage bin is compatible with the icemaker, and the dispenser unit/ice storage bin and icemaker are properly attached and secured.

- 1) Unpack the ice storage bin and attach the 4 adjustable legs provided (bin accessory) to the bottom of the ice storage bin.
- 2) Position the ice storage bin in its permanent location.
- 3) Place the icemaker on top of the storage bin.
- 4) Secure the icemaker to the storage bin using the 2 mounting brackets and the bolts provided. See Fig. 2.
- 5) Level the icemaker and storage bin in both the left-to-right and front-to-rear directions. Adjust the storage bin legs to make the icemaker level.
- 6) **Icemaker:** Replace the panels in their correct positions. See Fig. 2.



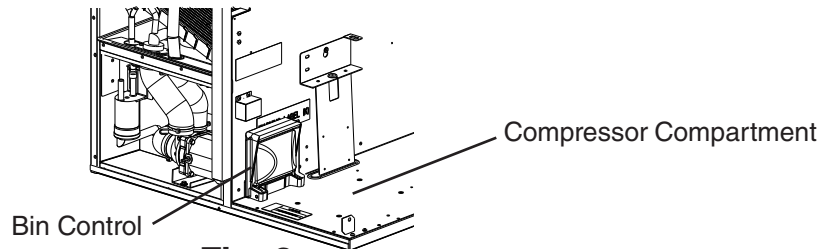
**Fig. 2**

## 2. Bin Control Installation

### NOTICE

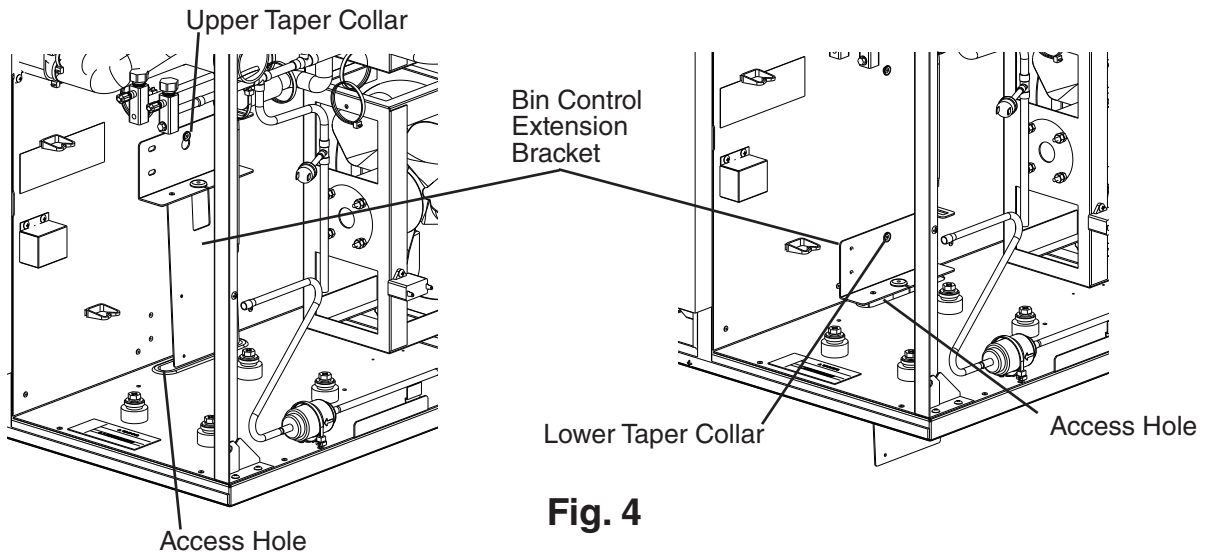
Before operating the icemaker, the bin control must be installed. Failure to properly install the bin control could result in ice backup and icemaker damage.

- 1) If not already removed, remove the front panel, top panel, and right side panel.
- 2) Remove the bin control from the compressor compartment. See Fig. 3.



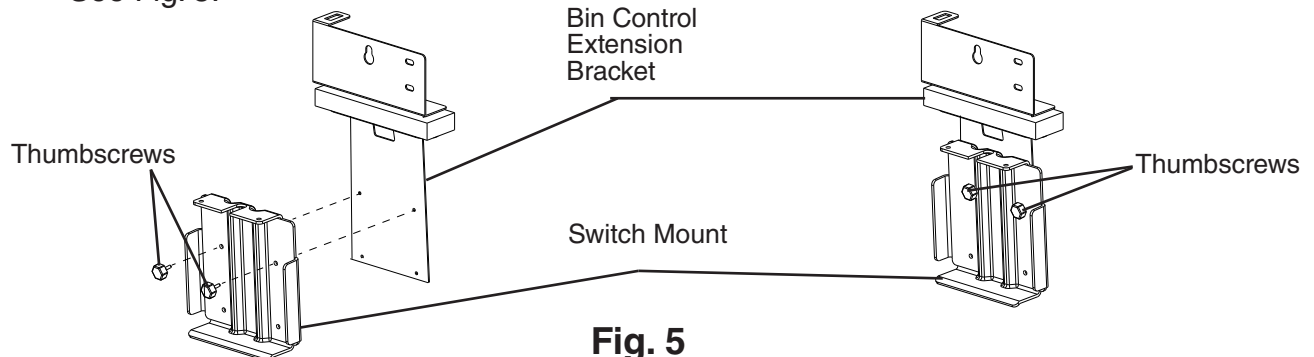
**Fig. 3**

- 3) Remove the bin control extension bracket from the upper taper collar and lower it into the access hole and secure it on the lower taper collar. See Fig. 4. Note: Be sure to secure the bin control extension bracket onto the lower taper collar.



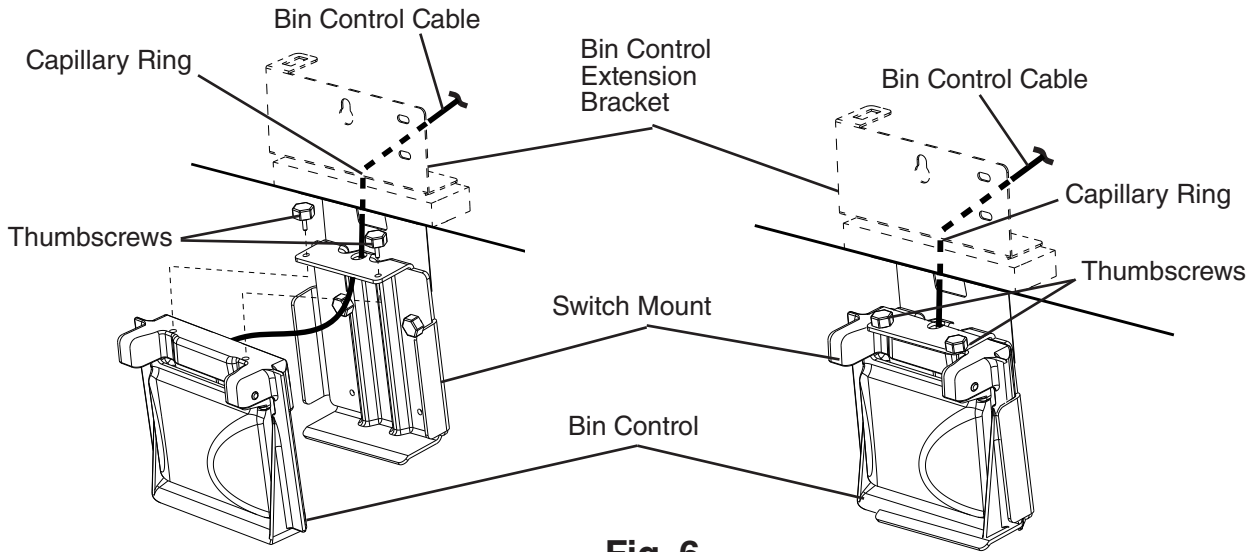
**Fig. 4**

- 4) Remove the switch mount and thumbscrews from the accessory bag. Open the ice storage bin door and install the switch mount to the bin control extension bracket. See Fig. 5.



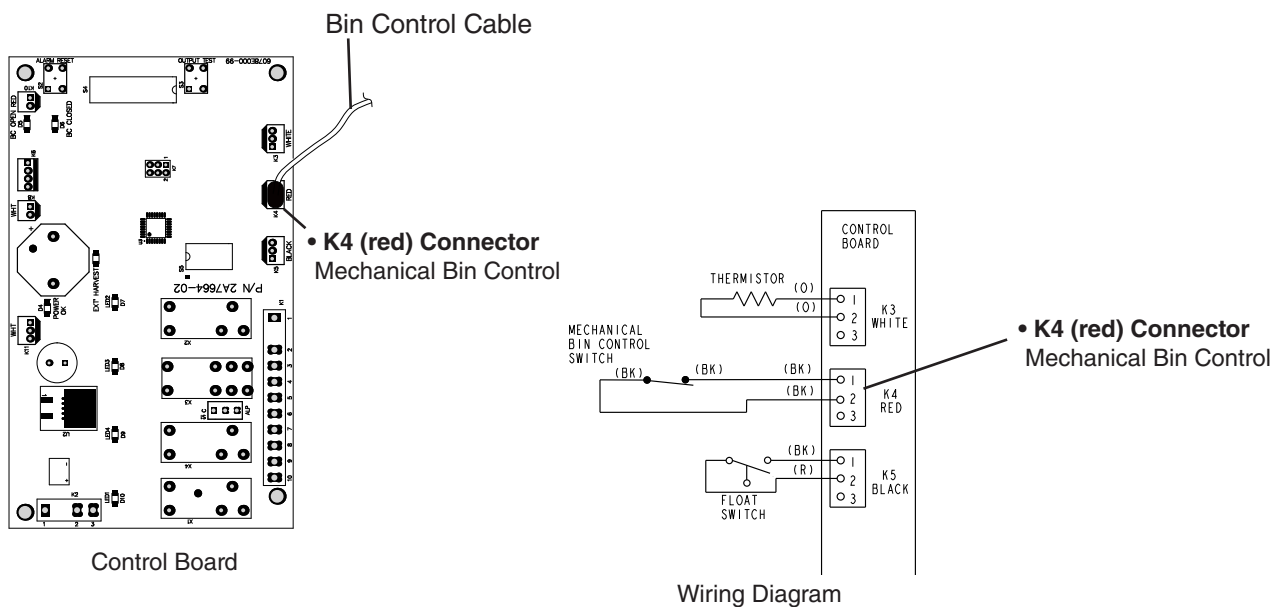
**Fig. 5**

- 5) Route the bin control cable up through the switch mount and the capillary ring in the bin control extension bracket, then using the thumbscrews from the accessory bag, install the bin control to the switch mount. See Fig. 6.



**Fig. 6**

- 6) Route the bin control cable through the wire saddles across the bottom of the compressor base, then up to the control box and through the control box wire grommet and into the control box. Connect the bin control cable to the K4 bin control connector (red). See Fig. 7. Note: Be sure the bin control cable is clear of the fan motor, fan blade, discharge line, crankcase heater, and compressor.



**Fig. 7**

- 7) Using nylon ties provided in the accessory bag, secure the bin control cable to the wire bundle leading into the control box.

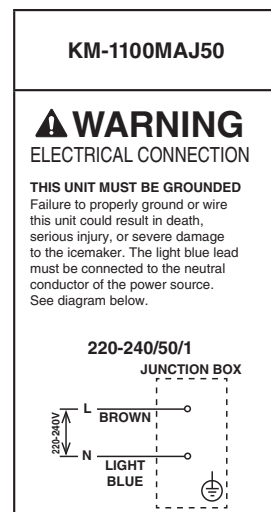
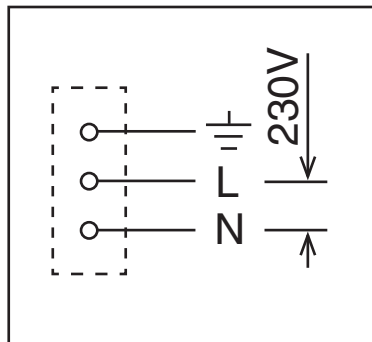
## E. Electrical Connection

### ⚠ WARNING

#### For All Models

- Electrical connection must be hard-wired and must meet national, state, and local electrical code requirements. Failure to meet these code requirements could result in death, electric shock, serious injury, fire, or damage.
- The icemaker requires an independent power supply of proper capacity. See the nameplate for electrical specifications. Failure to use an independent power supply of proper capacity can result in a tripped breaker, blown fuse, damage to existing wiring, or component failure. This could lead to heat generation or fire.
- **THE ICEMAKER MUST BE GROUNDED.** Failure to properly ground the icemaker could result in death or serious injury.
- Electrical connection must be made in accordance with the instructions on the "WARNING" tag, provided with the pig tail leads in the junction box. See Fig. 8.

- Usually an electrical permit and services of a licensed electrician are required.
- The maximum allowable voltage variation is  $\pm 10$  percent of the nameplate rating.
- **NOTICE! The main transformer's voltage tap switch must be positioned to match incoming voltage at startup.**
- The opening for the power supply connection is 7/8" DIA to fit a 1/2" trade size conduit.



**Fig. 8**



## F. Water Supply and Drain Connections

See Figs. 9

### **⚠ WARNING**

Water supply and drain connections must be installed in accordance with applicable national, state, and local regulations.

### **NOTICE**

- Normal operating water temperature should be within 45°F to 90°F (7°C to 32°C). Operation of the appliance, for extended periods, outside of this normal temperature range may affect appliance performance.
- Water supply pressure must be a minimum of 10 PSIG and a maximum of 113 PSIG. If the pressure exceeds 113 PSIG, the use of a pressure reducing valve is required.
- To prevent damage to the appliance, do not operate the appliance when the water supply is off, or if the pressure is below 10 PSIG. Do not run the appliance until the proper water pressure is reached.
- External filters, strainers, or softeners may be required depending on water quality. Contact your local Hoshizaki Certified Service Representative or local Hoshizaki distributor for recommendations.

- A plumbing permit and services of a licensed plumber may be required in some areas.
- The icemaker drain line, ice storage bin drain line, and water-cooled condenser drain line must be run separately. The condensation drain line can be connected to the icemaker drain line or can be run separately.
- Drain lines must have 1/4" fall per foot (2 cm per 1 m) on horizontal runs to get a good flow. A vented tee connection is also required for proper flow.
- Drain lines should not be piped directly to the sewer system. An air gap of a minimum of 2 vertical inches (5 cm) should be between the end of the drain pipes from the icemaker and condensation drain, ice storage bin, and water-cooled condenser and the floor drain.

# 1. Icemaker

Icemaker Water Supply Inlet	Minimum Icemaker Water Supply Line Size	Icemaker Drain Outlet	Minimum Icemaker Drain Line Size	Condensation Drain Outlet
1/2" Female Pipe Thread (FPT)	3/8" Nominal ID Copper Water Tubing or Equivalent	3/4" Female Pipe Thread (FPT)	3/4" Nominal ID Hard Pipe or Equivalent	3/8" OD Hard Tube

- An icemaker water supply line shut-off valve and drain valve must be installed.
- Be sure there is sufficient extra water supply line and drain line for the appliance to be pulled out for service.

