



HOSHIZAKI

Instruction Manual

Modular Crescent Cuber

Models

KM-1100MAJ50



hoshizakiamerica.com

Issued: 10-15-2021

⚠ WARNING

Only qualified service technicians should install and service the appliance. To obtain the name and phone number of your local Hoshizaki Certified Service Representative, visit www.hoshizaki.com. No installation or service should be undertaken until the technician has thoroughly read this Instruction Manual. Likewise, the owner/manager should not proceed to operate the appliance until the installer has instructed them on its proper operation. 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. Proper installation is the responsibility of the installer. Product failure or property damage due to improper installation is not covered under warranty.

Hoshizaki provides this manual primarily to assist qualified service technicians in the installation, maintenance, and service of the appliance.

Should the reader have any questions or concerns which have not been satisfactorily addressed, please call, send an e-mail message, or write to the Hoshizaki Technical Support Department for assistance.

Phone: 1-800-233-1940; (770) 487-2331

Fax: 1-800-843-1056; (770) 487-3360

E-mail: techsupport@hoshizaki.com

HOSHIZAKI AMERICA, INC.

618 Highway 74 South

Peachtree City, GA 30269

Attn: Hoshizaki Technical Support Department

NOTE: To expedite assistance, all correspondence/communication **MUST** include the following information:

- Model Number _____
- Serial Number _____
- Complete and detailed explanation of the problem.

IMPORTANT

This manual should be read carefully before the appliance is installed and operated. Read the warnings and guidelines contained in this manual carefully as they provide essential information for the continued safe use and maintenance of the appliance. Retain this manual for any further reference that may be necessary.

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Important Safety Information

Throughout this manual, notices appear to bring your attention to situations which could result in death, serious injury, damage to the appliance, or damage to property.

⚠ WARNING Indicates a hazardous situation which could result in death or serious injury.

NOTICE Indicates a situation which could result in damage to the appliance or property.

IMPORTANT Indicates important information about the installation, use, and care of the appliance.

⚠ WARNING

The appliance should be destined only to the use for which it has been expressly conceived. Any other use should be considered improper and therefore dangerous. The manufacturer cannot be held responsible for injury or damage resulting from improper, incorrect, and unreasonable use. 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.

To reduce the risk of death, electric shock, serious injury, or fire, follow basic precautions including the following:

- Only qualified service technicians should install and service the appliance.
- The appliance must be installed in accordance with applicable national, state, and local codes and regulations.
- 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.
- To reduce the risk of electric shock, do not touch the control switch with damp hands.
- Move the control switch to the "OFF" position and turn off the power supply before servicing. Lockout/Tagout to prevent the power supply from being turned back on inadvertently.
- Do not make any alterations to the appliance. Alterations could result in electric shock, serious injury, fire, or damage.
- The appliance is not intended for use by persons (including children) with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

⚠ WARNING, continued

- Children should be properly supervised around the appliance.
- Do not climb, stand, or hang on the appliance or allow children or animals to do so. Serious injury could occur or the appliance could be damaged.
- Do not use combustible spray or place volatile or flammable substances near the appliance. They might catch fire.
- Keep the area around the appliance clean. Dirt, dust, or insects in the appliance could cause harm to individuals or damage to the appliance.

NOTICE

- Follow the water supply, drain connection, and maintenance instructions carefully to reduce the risk of costly water damage.
- In areas where water damage is a concern, install in a contained area with a floor drain.
- Install the icemaker in a location that stays above freezing. Normal operating ambient temperature must be within 45°F to 100°F (7°C to 38°C).
- Do not leave the icemaker on during extended periods of non-use, extended absences, or in sub-freezing temperatures. To properly prepare the icemaker for these occasions, follow the instructions in "IV. Preparing the Icemaker for Periods of Non-Use."
- Do not place objects on top of the appliance.
- The dispenser unit/ice storage bin is for ice use only. Do not store anything else in the dispenser unit/ice storage bin.

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.

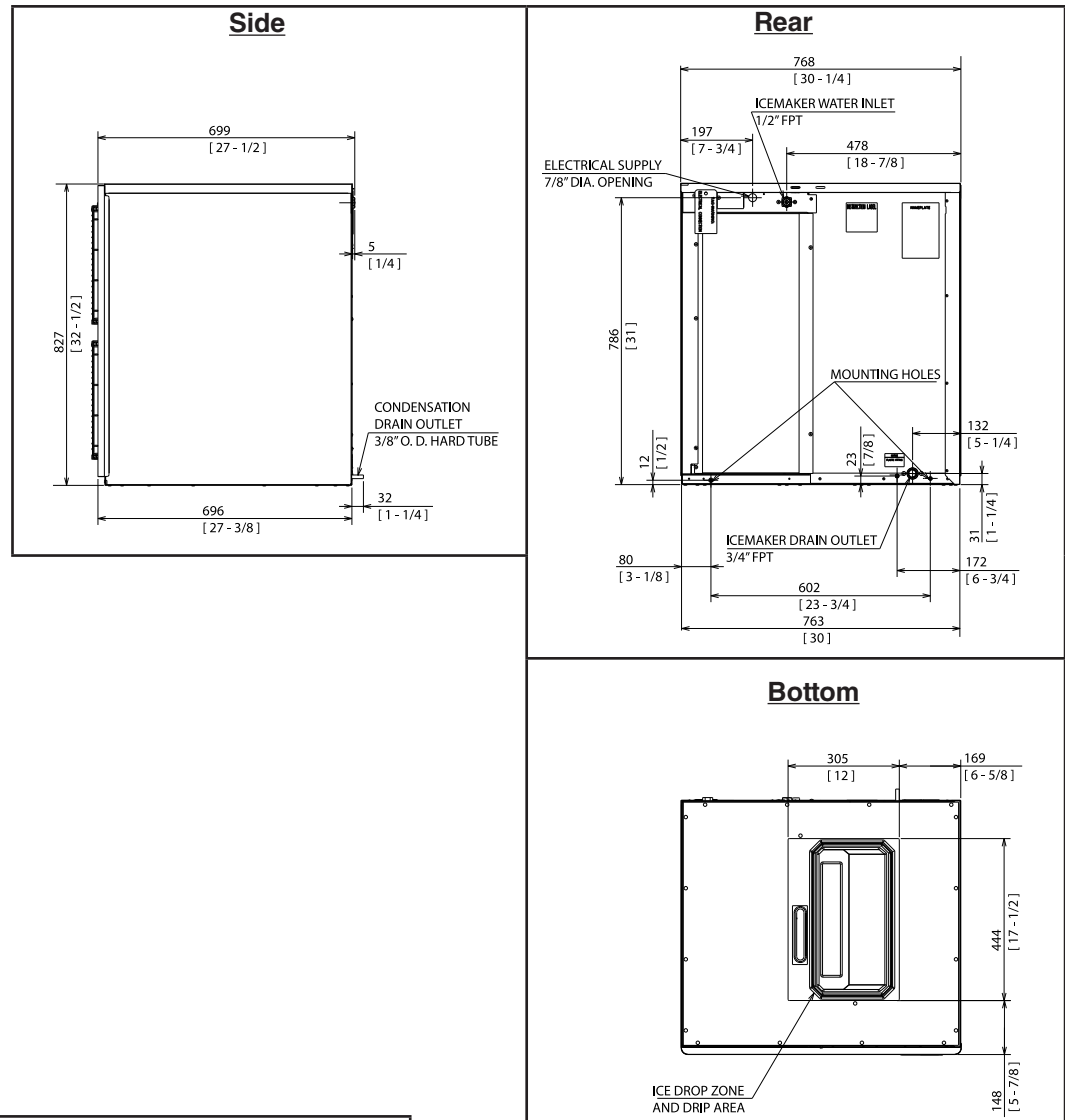
1. KM-1100MAJ50

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 [†]
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.

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.

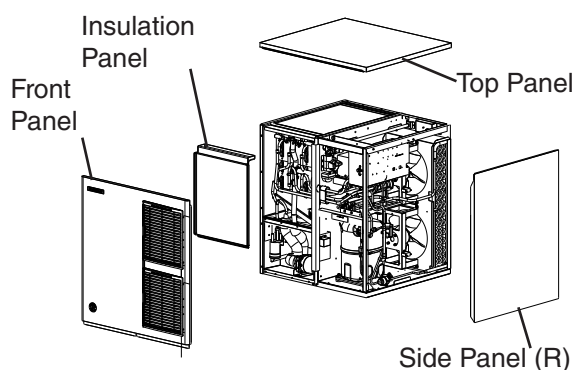


Fig. 1

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.

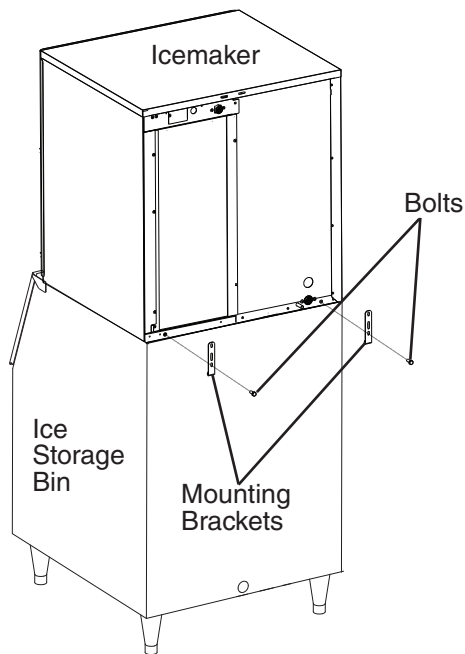


Fig. 2

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.

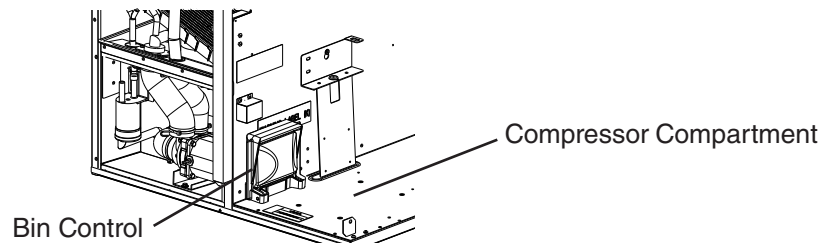


Fig. 3

- 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.

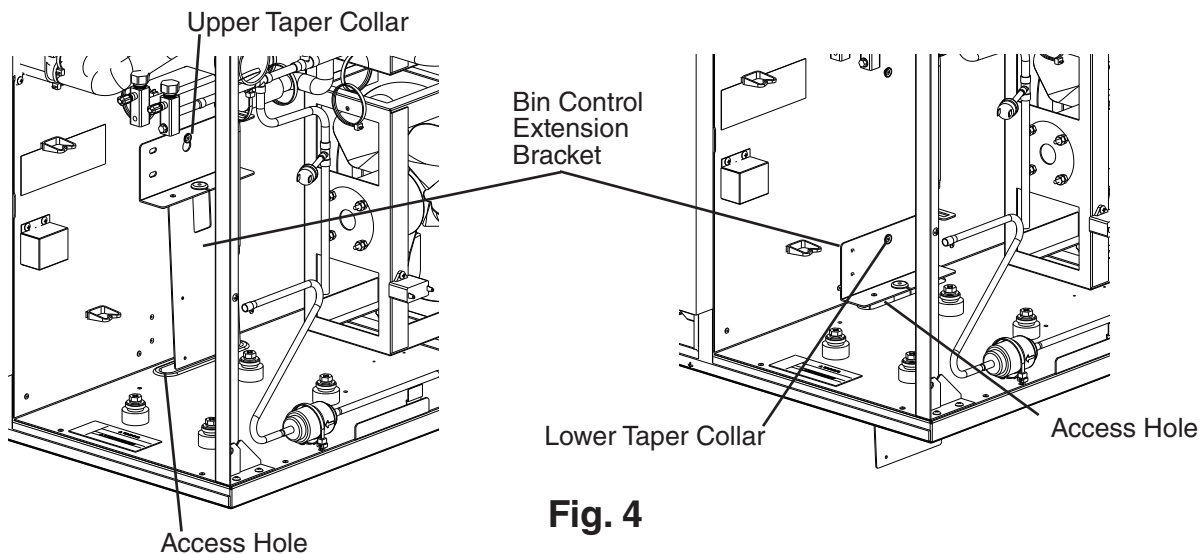


Fig. 4

- 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.

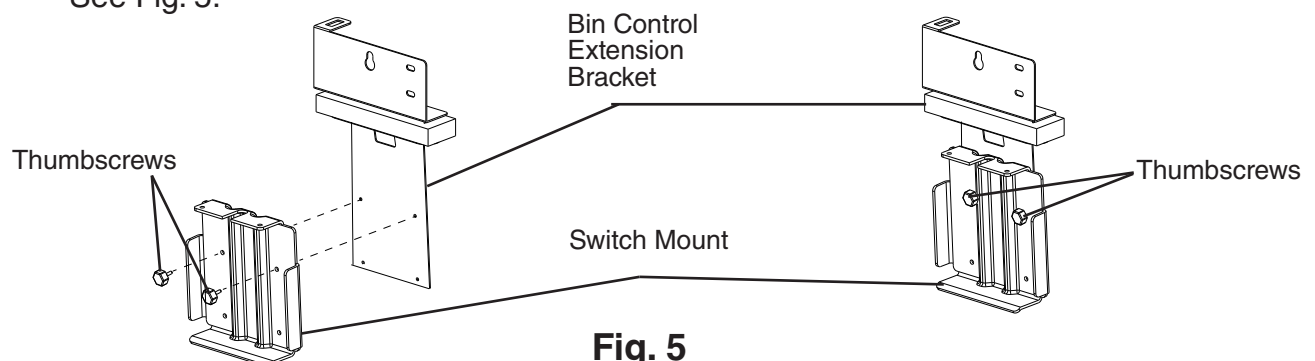


Fig. 5

- 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.

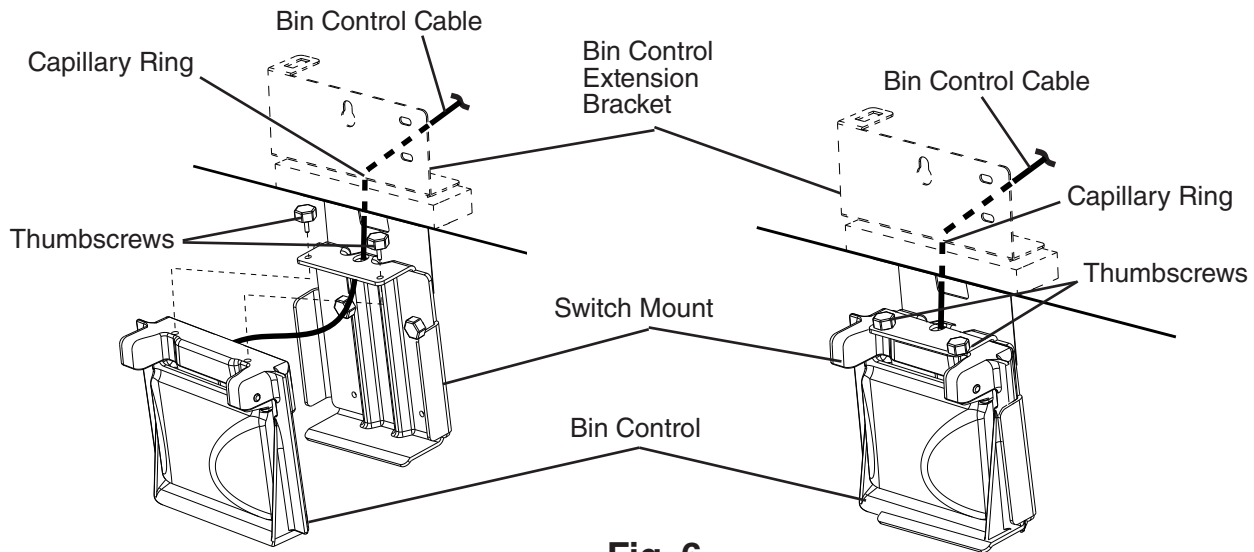


Fig. 6

- 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.

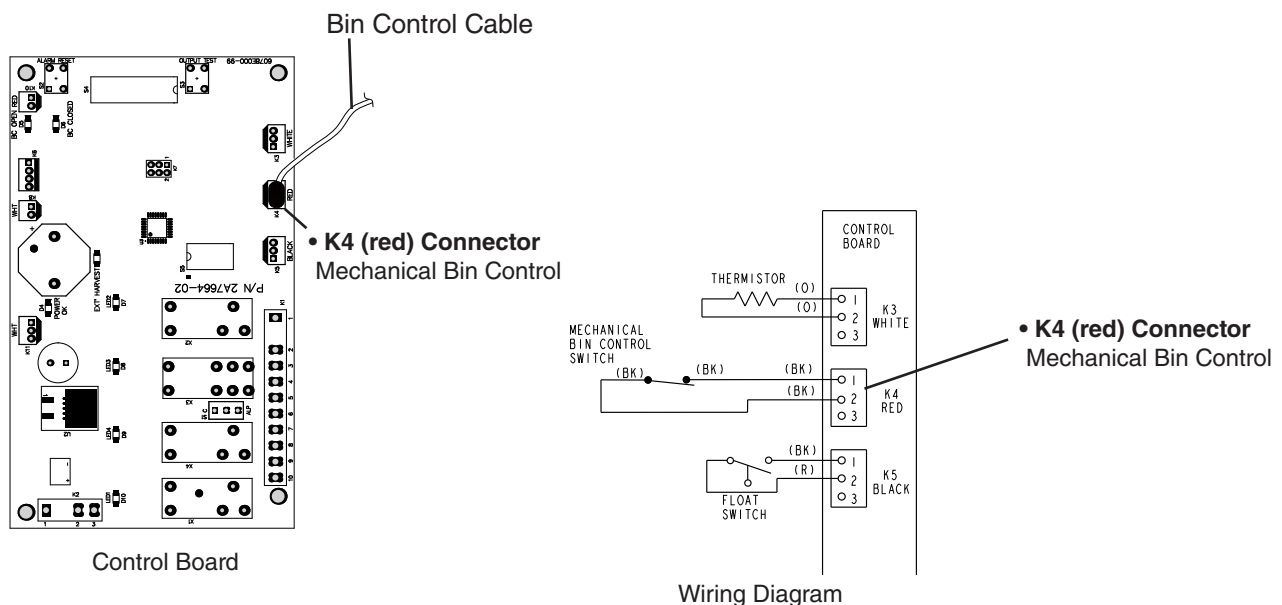


Fig. 7

- 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 ± 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.

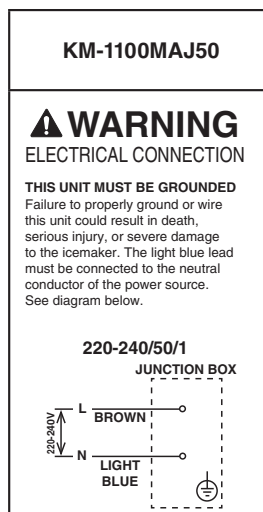
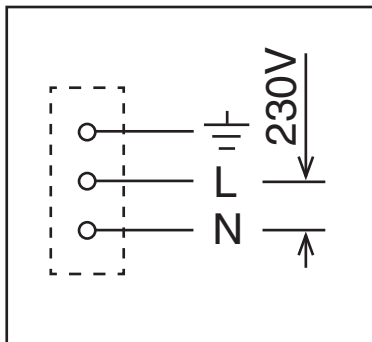


Fig. 8

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.

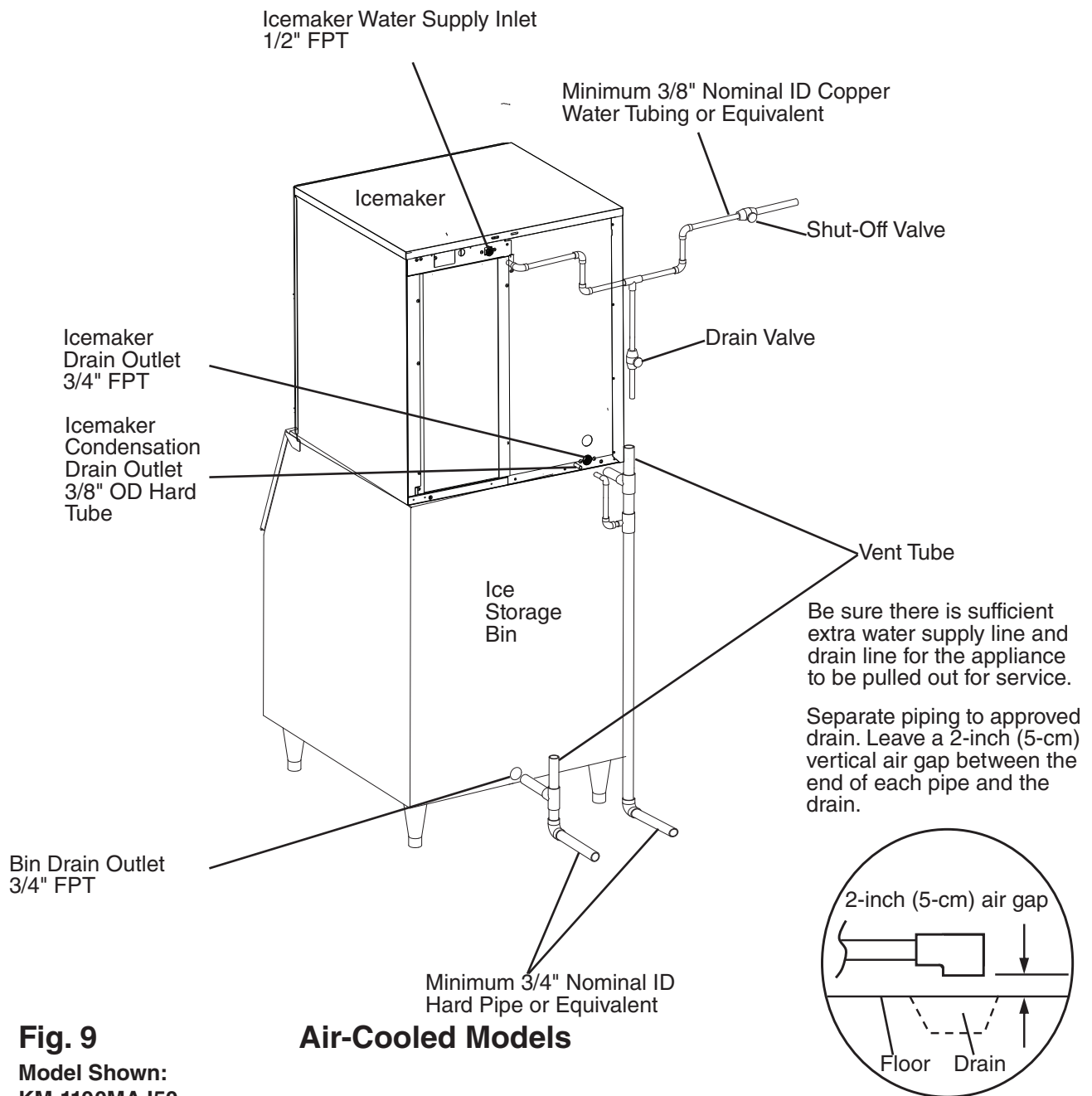


Fig. 9

Model Shown:
KM-1100MAJ50

Air-Cooled Models

G. Final Checklist

1. Pre-Startup

- 1) Is the icemaker level?
- 2) Is the icemaker in a site where the ambient temperature is within 45°F to 100°F (7°C to 38°C) and the water temperature within 45°F to 90°F (7°C to 32°C) all year around?
- 3) Is there at least 12" (30 cm) clearance at rear, sides, and top of the icemaker.
- 4) Have the shipping carton, tape, and packing material been removed from the appliance? Is the cube guide in the correct position? Are the separators between the evaporator banks properly attached to their holding clips?
- 5) Have all electrical and water connections been made? Do electrical and water connections meet applicable national, state, and local code and regulation requirements?
- 6) Has the power supply voltage been checked or tested against the nameplate rating? Has a proper ground been installed to the icemaker?
- 7) Are the water supply and drain lines sized as specified? Are the water supply line shut-off valve(s) and drain valve(s) installed? Has the water supply pressure been checked to ensure a minimum of 10 PSIG and a maximum of 113 PSIG?
- 8) Is the compressor snug on all mounting pads? Have the refrigerant lines been checked to make sure they do not rub or touch other lines or surfaces? Have the fan blades been checked to make sure they turn freely?

2. Post-Startup

⚠ WARNING
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.

- 1) Has the bin control operation been confirmed?
- 2) Are all components, fasteners, and thumbscrews securely in place?
- 3) Has the end user been given the instruction manual, and instructed on how to operate the appliance and the importance of the recommended periodic maintenance?
- 4) Has the end user been given the contact information of an authorized service agent?
- 5) Has the warranty registration been completed and submitted to the factory?

H. Startup

⚠ WARNING

All parts are factory-adjusted. Improper adjustments may adversely affect safety, performance, component life, and warranty coverage.

NOTICE

- If the icemaker is turned off, wait for at least 3 minutes before restarting the icemaker to prevent damage to the compressor.
- To prevent damage to the water pump seal, do not leave the control switch in the "WASH" position for extended periods when the water tank is empty.
- At startup, confirm that all internal and external connections are free of leaks.

- 1) Open the water supply line shut-off valve(s).
- 2) Remove the front panel.
- 3) Move the control switch on the control box to the "ICE" position.
- 4) Replace the front panel in its correct position.
- 5) Turn on the power supply and allow the icemaker to operate for a total of 10 minutes.
- 6) After 10 min. of operation, turn off the power supply, then remove the front panel and the insulation panel.
- 7) Slide the cube guide to the right, then remove the rubber cap and sleeve covering the overflow pipe. See Fig. 10. Unscrew the overflow pipe. After the water tank has drained, reconnect the overflow pipe. Replace the rubber cap, sleeve, and cube guide in their correct positions. **NOTICE! Make sure the O-ring is attached to the bottom of the overflow pipe and be careful not to cross thread the overflow pipe.**
- 8) Replace the insulation panel and the front panel in their correct positions.
- 9) Clean the dispenser unit/ice storage bin liner using a neutral cleaner. Rinse thoroughly after cleaning.
- 10) Turn on the power supply to start the automatic icemaking process.
- 11) During the first 5 minutes of the freeze cycle, confirm bin control operation by pressing and holding the bin control's actuator paddle until the icemaker shuts down. The icemaker should shut down in approximately 15 seconds.
- 12) Return to "II.G.2. Post-Startup" and complete final checklist.

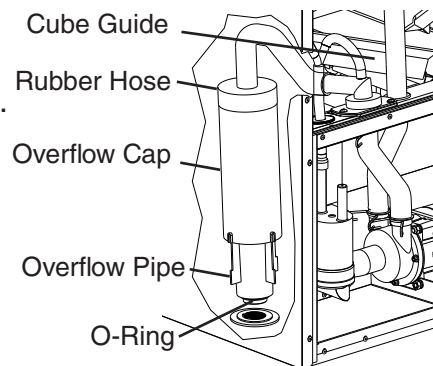


Fig. 10

III. Maintenance

The appliance must be maintained in accordance with the instruction manual and labels provided. Consult with your local Hoshizaki Certified Service Representative about maintenance service.

WARNING

- Only qualified service technicians should service the appliance.
- To reduce the risk of electric shock, do not touch the control switch with damp hands.
- Move the control switch to the "OFF" position and turn off the power supply before servicing. Lockout/Tagout to prevent the power supply from being turned back on inadvertently.
- **CHOKING HAZARD:** Ensure all components, fasteners, and thumbscrews are securely in place after any maintenance is done to the appliance. Make sure that none have fallen into the dispenser unit/ice storage bin.

A. Maintenance Schedule

The maintenance schedule below is a guideline. More frequent maintenance may be required depending on water quality, the appliance's environment, and local sanitation regulations.

Maintenance Schedule		
Frequency	Area	Task
Daily	Scoop	Clean the ice scoop using a neutral cleaner. Rinse thoroughly after cleaning.
Bi-Weekly	Air Filters	Inspect. Wash with warm water and neutral cleaner if dirty.
Monthly	External Water Filters	Check for proper pressure and change if necessary.
	Icemaker Exterior	Wipe down with a clean, soft cloth. Use a damp cloth containing a neutral cleaner to wipe off oil or dirt build up. Clean any chlorine staining (rust colored spots) using a non-abrasive cleanser.
	Underside of Icemaker and Top Kits; Bin Door	Wipe down with a clean cloth and warm water.
Yearly	Icemaker and Dispenser Unit/Ice Storage Bin	Clean and sanitize per the cleaning and sanitizing instructions provided in this manual. See "III.B. Cleaning and Sanitizing Instructions."
	Water Supply Inlet	Close the icemaker water supply line shut-off valve and drain the water system. Clean the water supply inlet screen.
	Condenser	Inspect. Clean if necessary by using a brush or vacuum cleaner. More frequent cleaning may be required depending on location.
	Water Hoses	Inspect the water hoses and clean/replace if necessary.

B. Cleaning and Sanitizing Instructions

The icemaker must be cleaned and sanitized at least once a year. More frequent cleaning and sanitizing may be required in some water conditions.

⚠ WARNING

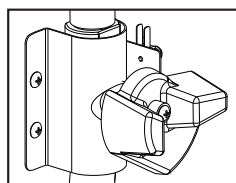
- To prevent injury to individuals and damage to the icemaker, do not use ammonia type cleaners.
- Carefully follow any instructions provided with the bottles of cleaning and sanitizing solution.
- Always wear liquid-proof gloves and goggles to prevent the cleaning and sanitizing solutions from coming into contact with skin or eyes.
- Do not leave the icemaker unattended when panels are off.

NOTICE

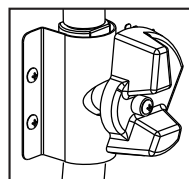
To prevent damage to the water pump seal, do not leave the control switch in the "WASH" position for extended periods when the water tank is empty.

IMPORTANT

- The cleaning valve is opened during cleaning and sanitizing to allow solution flow to the inside of the evaporator. It should be closed for all icemaking operation. The compressor will not operate unless this valve is completely closed.
- To close the cleaning valve, the valve handle should be at a right angle to the valve body. To open the cleaning valve, the valve handle should be parallel to the valve body.



CLOSED
Icemaking Operation



OPEN
Cleaning and Sanitizing Operation
(allows solution flow to the inside of the evaporator)

Preparation

- 1) Remove the front panel, then move the control switch to the "OFF" position.
After 3 min., move the control switch to the "ICE" position, then replace the front panel.
- 2) After 3 min., remove the front panel, then move the control switch to the "OFF" position.
- 3) Remove all ice from the ice storage bin. **WARNING! If on a dispenser unit, turn off the dispenser unit power supply after dispensing the ice.**

Cleaning

- 4) Remove the front insulation panel, then slide the cube guide to the right. Remove the rubber cap and sleeve covering the overflow pipe. See Fig. 6. Unscrew the overflow pipe. After the water tank has drained, reconnect the overflow pipe. Replace the rubber hose, overflow cap, cube guide, and front insulation panel. **NOTICE! Make sure the O-ring is attached to the bottom of the overflow pipe and be careful not to cross thread the overflow pipe.**
- 5) To fill the water tank, move the control switch to the "ICE" position, then replace the front panel. After 3.5 min., remove the front panel, then move the control switch to the "OFF" position.
- 6) Remove the front insulation panel, then pour 30 fl. oz. (887 ml) of Hoshizaki "Scale Away" into the water tank. Replace the front insulation panel. Turn the cleaning valve to the left until completely vertical (open).
- 7) **NOTICE! To avoid excessive foaming, wait 1 min. before proceeding.**
After 1 min., move the control switch to the "WASH" position, then replace the front panel.
- 8) After 30 min., remove the front panel, then move the control switch to the "OFF" position.
- 9) Remove the front insulation panel, then slide the cube guide to the right. Remove the rubber hose and overflow cap covering the overflow pipe. Unscrew the overflow pipe. After the water tank has drained, reconnect the overflow pipe. Replace the rubber hose, overflow cap, cube guide, and front insulation panel.
- 10) In bad or severe water conditions, turn off the power supply, then remove, clean (cleaning solution = 5 oz. Hoshizaki "Scale Away" per gallon of warm water), rinse, and replace the cube guides, float switch, water supply tubes, spray tubes, and spray guides; turn on the power supply when complete. Otherwise, continue to step 11..

Cleaning Rinse

- 11) Turn the cleaning valve to the right until completely horizontal (closed). Move the control switch to the "ICE" position, then replace the front panel. After 3.5 min., remove the front panel, then move the control switch to the "OFF" position. Note: The icemaker will not operate unless the cleaning valve is completely closed.
- 12) Turn the cleaning valve to the left until completely vertical (open). Move the control switch to the "WASH" position, then replace the front panel. After 5 min., remove the front panel, then move the control switch to the "OFF" position.
- 13) Remove the front insulation panel, then slide the cube guide to the right. Remove the rubber hose and overflow cap covering the overflow pipe. Unscrew the overflow pipe. After the water tank has drained, reconnect the overflow pipe. Replace the rubber hose, overflow cap, cube guide, and front insulation panel.

Sanitizing

- 14) To fill the water tank, turn the cleaning valve to the right until completely horizontal (closed). Move the control switch to the "ICE" position, then replace the front panel. After 3.5 min., remove the front panel, then move the control switch to the "OFF" position.
- 15) Remove the front insulation panel, then pour 1.7 fl. oz. (50 ml) of an 8.25% sodium hypochlorite solution (chlorine bleach) into the water tank. Replace the front insulation panel. Turn the cleaning valve to the left until completely vertical (open). **IMPORTANT! Use regular bleach with no additives. Using a bleach with additives causes excessive foaming during sanitizing, reducing the effectiveness of sanitizing.**
- 16) **NOTICE! To avoid excessive foaming, wait 1 min. before proceeding.** After 1 min., move the control switch to the "WASH" position, then replace the front panel.
- 17) After 45 min., remove the front panel, then move the control switch to the "OFF" position.
- 18) Remove the front insulation panel, then slide the cube guide to the right. Remove the rubber hose and overflow cap covering the overflow pipe. Unscrew the overflow pipe. After the water tank has drained, reconnect the overflow pipe. Replace the rubber hose, overflow cap, cube guide, and front insulation panel.

Sanitizing Rinse 1

- 19) Turn the cleaning valve to the right until completely horizontal (closed). Move the control switch to the "ICE" position, then replace the front panel. After 3.5 min., remove the front panel, then move the control switch to the "OFF" position.
- 20) Turn the cleaning valve to the left until completely vertical (open). Move the control switch to the "WASH" position, then replace the front panel. After 5 min., remove the front panel, then move the control switch to the "OFF" position.
- 21) Remove the front insulation panel, then slide the cube guide to the right. Remove the rubber cap and sleeve covering the overflow pipe. Unscrew the overflow pipe. After the water tank has drained, reconnect the overflow pipe. Replace the rubber hose, overflow cap, cube guide, and front insulation panel.

Sanitizing Rinse 2

- 22) Turn the cleaning valve to the right until completely horizontal (closed). Move the control switch to the "ICE" position, then replace the front panel. After 3.5 min., remove the front panel, then move the control switch to the "OFF" position.
- 23) Turn the cleaning valve to the left until completely vertical (open). Move the control switch to the "WASH" position, then replace the front panel. After 5 min., remove the front panel, then move the control switch to the "OFF" position.
- 24) Remove the front insulation panel, then slide the cube guide to the right. Remove the rubber hose and overflow cap covering the overflow pipe. Unscrew the overflow pipe. After the water tank has drained, reconnect the overflow pipe. Replace the rubber hose, overflow cap, cube guide, and front insulation panel.

Sanitizing Rinse 3

- 25) Turn the cleaning valve to the right until completely horizontal (closed). Move the control switch to the "ICE" position, then replace the front panel. After 3.5 min., remove the front panel, then move the control switch to the "OFF" position.
- 26) Turn the cleaning valve to the left until completely vertical (open). Move the control switch to the "WASH" position, then replace the front panel. After 5 min., remove the front panel, then move the control switch to the "OFF" position.
- 27) Remove the front insulation panel, then slide the cube guide to the right. Remove the rubber hose and overflow cap covering the overflow pipe. Unscrew the overflow pipe. After the water tank has drained, reconnect the overflow pipe. Replace the rubber hose, overflow cap, cube guide, and front insulation panel. **NOTICE! Be sure the O-ring is attached to the bottom of the overflow pipe and be careful not to cross thread the overflow pipe.**
- 28) Clean the ice storage bin liner using a neutral cleaner. Rinse thoroughly after cleaning.
- 29) Turn the cleaning valve to the right until completely horizontal (closed). Move the control switch to the "ICE" position. Note: If on a dispenser unit, turn on the dispenser unit power supply.
- 30) Replace all panels in their correct positions.

IV. Preparing the Appliance for Periods of Non-Use

NOTICE
• When storing the icemaker for an extended time or in sub-freezing temperatures, follow the instructions below to prevent damage. • To prevent damage to the water pump seal, do not leave the control switch in the "WASH" position for extended periods when the water tank is empty.

When the icemaker is not used for two or three days under normal conditions, it is sufficient to move the control switch to the "OFF" position. When storing the icemaker for an extended time or in sub-freezing temperatures, follow the instructions below.

1. Remove the water from the icemaker water supply line:

- 1) Turn off the power supply, then remove the front panel.
- 2) Move the control switch to the "OFF" position.
- 3) Close the icemaker water supply line shut-off valve, then open the icemaker water supply line drain valve.
- 4) Allow the line to drain by gravity.
- 5) Attach a compressed air or carbon dioxide supply to the icemaker water supply line drain valve.
- 6) Move the control switch to the "ICE" position.
- 7) Replace the front panel in its correct position, then turn on the power supply.
- 8) Blow the icemaker water supply line out using the compressed air or carbon dioxide supply.
- 9) Close the icemaker water supply line drain valve.

2. Drain the water tank:

- 1) Turn off the power supply, then remove the front panel. Move the control switch to the "OFF" position.
- 2) Remove the insulation panel.
- 3) Slide the cube guide to the right, then remove the rubber hose and overflow cap covering the overflow pipe. See Fig. 16. Unscrew the overflow pipe. After the water tank has drained, reconnect the overflow pipe. Replace the rubber hose, overflow cap, and cube guide in their correct positions. **NOTICE! Make sure the O-ring is attached to the bottom of the overflow pipe and be careful not to cross thread the overflow pipe.**
- 4) Replace the insulation panel in its correct position.
- 5) Remove all ice from the storage bin. Clean the storage bin using a neutral cleaner. Rinse thoroughly after cleaning.
- 6) Replace the front panel in its correct position.

V. Disposal

The appliance contains refrigerant and must be disposed of in accordance with applicable national, state, and local codes and regulations. Refrigerant must be recovered by properly certified service personnel.

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