HOSHIZAKI

Instruction Manual

Cubelet Icemaker/Dispenser

Models
DCM-300BAK(-OS)
DCM-500BAK(-OS), BWK(-OS)
DCM-700BAK(-OS), BWK(-OS)

hoshizakiamerica.com

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⚠ 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.hoshizakiamerica.com. No installation, operation, maintenance, or service should be undertaken until the technician has thoroughly read this Instruction Manual. No service should be undertaken until the technician has thoroughly read the service manual available at www.hoshizakiamerica.com. 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, operation, 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

E-mail: tech-support@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.

CONTENTS

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.

	**R-290 Class A3 Flammable Refrigerant Used**
⚠ DANGER	**Indicates a hazardous situation that, if not avoided, will result in death or serious injury.**
⚠ WARNING	**Indicates a hazardous situation that, if not avoided, could result in death or serious injury.**
NOTICE	**Indicates a situation that, if not avoided, could result in damage to the appliance or property.**
IMPORTANT	**Indicates important information about the use and care of the appliance.**

⚠ DANGER

Risk of Fire or Explosion
Flammable Refrigerant Used

- Only qualified service technicians should install and service the appliance.
- No installation, operation, or maintenance should be undertaken until the technician has thoroughly read this Instruction Manual. All safety precautions must be followed.
- No service should be undertaken until the technician has thoroughly read the Service Manual available at www.hoshizakiamerica.com. All safety precautions must be followed.
- This appliance to be installed in accordance with the Safety Standard for Refrigeration Systems ANSI/ASHRAE 15.
- Follow handling instructions carefully in compliance with national regulations.
- Do not use mechanical devices or other means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
- Do not puncture refrigerant tubing. Risk of fire or explosion due to puncture of refrigerant tubing; follow handling instructions carefully.
- Servicing shall be done by trained service personnel with certified competence in handling flammable refrigerants to minimize the risk of possible ignition due to incorrect parts or improper service.
- Component parts shall be replaced with like components, so as to minimize the risk of possible ignition due to incorrect parts.
- Dispose of properly in accordance with federal or local regulations.
- Do not pierce or burn.
- Be aware that refrigerants may not contain an odor.
- Do not damage the refrigeration circuit.
- See nameplate for R-290 refrigerant charge:
  - If greater than 114 g (4 oz.), do not install in public corridor or lobby.
  - If greater than 152 g (5.3 oz.), do not install within 6 m (20 ft) of open flame.
- The appliance shall be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance, or an operating electric heater).

⚠ DANGER

- Do not place any potential ignition sources in or near the appliance.
- Keep clear of obstruction all ventilation openings in the appliance enclosure or in the structure for building-in.• No potential sources of ignition are to be used in the searching for or detection of refrigerant leaks.
- Do not use electrical appliances inside the appliance unless they are of the type recommended by the manufacturer.
- Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.
- Check that cabling will not be subject to wear, corrosion, excessive pressure, vibration, sharp edges, or any other adverse environmental effects. The check shall also take into account the effects of aging or continual vibration from sources such as compressors or fans.
- Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work. A degree of ventilation shall continue during the period that the work is carried out. The ventilation should safely disperse any released refrigerant and preferably expel it externally into the atmosphere.

Risque D'Incendie ou D'Explosion
Fluide Frigorigène Inflammable Utilisé

- Seuls des techniciens de service qualifiés doivent installer et entretenir l'appareil.
- Aucune installation, opération ou maintenance ne doit être entreprise avant que le technicien n'ait lu attentivement ce manuel d'instructions. Toutes les précautions de sécurité doivent être suivies.
- Aucune opération d'entretien ne doit être entreprise avant que le technicien n'ait lu attentivement le manuel d'entretien disponible sur le site www.hoshizakiamerica.com. Toutes les précautions de sécurité doivent être suivies.
- Cet appareil doit être installé conformément à la norme de sécurité pour les systèmes de réfrigération ANSI/ ASHRAE 15.
- Suivez attentivement les instructions de manutention conformément aux réglements nationaux.
- Ne pas utiliser de dispositifs mécaniques ou d'autres moyens pour accélérer le processus de dégivrage ou pour nettoyer, autres que ceux recommandés par le fabricant.
- Ne pas perforer la conduite de fluide frigorigène. Risque d'incendie ou d'explosion en cas de perforation d'une canalisation de fluide frigorigène; suivez attentivement les instructions de manutention.
- L'entretien doit être effectué par du personnel formé et certifié pour la manipulation de réfrigérants inflammables afin de réduire au minimum le risque d'inflammation dû à des pièces incorrectes ou à un entretien inadéquat.

⚠ DANGER continued

- Les pièces doivent être remplacées par des pièces similaires, de manière à réduire au minimum le risque d'inflammation dû à des pièces incorrectes.
- Mettre au rebut conformément aux réglements fédéraux ou locaux.
- Ne pas percer ou brûler.
- Attention, les fluides frigorigénes peuvent ne pas dégager d'odeur.
- Ne pas endommager les composants du circuit de réfrigération.
- Voir plaque signalétique pour la charge de réfrigérant R-290:
  - Si elle est supérieure à 114 g (4 oz.), ne pas l'installer dans un couloir public ou un hall d'entrée.
  - Si elle est supérieure à 152 g (5.3 oz.), ne pas l'installer à moins de 6 m (20 pi) d'une flamme nue.
- L'appareil doit être entreposé dans un local ne contenant pas de sources d'inflammation permanentes (flammes nues, appareil à gaz ou dispositif de chauffage électrique en fonctionnement, par exemple).
- Ne placer aucune source d'inflammation potentielle à l'intérieur ou à proximité de l'appareil.
- Ne pas obstruer les ouvertures de ventilation dans l'enceinte de l'appareil ou dans la structure d'encastrement.
- Aucune source potentielle d'inflammation ne doit être utilisée pour rechercher ou détecter des fuites de réfrigérant.
- Ne pas utiliser d'appareils électriques à l'intérieur de l'appareil, sauf s'ils sont du type recommandé par le fabricant.
- Ne pas entreposer dans cet appareil des substances explosives telles que des bombes aérosols contenant un gaz propulseur inflammable.
- Vérifier que le câblage ne sera pas soumis à l'usure, à la corrosion, à une pression excessive, à des vibrations, à des arêtes vives ou à tout autre effet environnemental négatif. Le contrôle doit également prendre en compte les effets du vieillissement ou des vibrations continues provenant de sources telles que les compresseurs ou les ventilateurs.
- S'assurer que la zone est à l'air libre ou qu'elle est correctement ventilée avant de pénétrer dans le système ou d'effectuer un travail à chaud. Une certaine ventilation doit être maintenue pendant la durée des travaux. La ventilation doit permettre de disperser en toute sécurité tout réfrigérant libéré et, de préférence, de l'expulser dans l'atmosphère.

⚠ 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**:

- This appliance is not intended for use above 2,000 m (6,561 ft). Installation above 2,000 m (6,561 ft) may adversely affect safety, performance, and component life.
- Wear appropriate personal protective equipment (PPE) when servicing the appliance.
- The appliance must be installed in accordance with applicable national, state, and local codes and regulations.
- The appliance 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.
- Do not make any alterations to the appliance. Alterations could result in electric shock, injury, fire, or damage to the appliance.
- Appliance is heavy. Use care when lifting or positioning. Work in pairs when needed to prevent injury or damage.
- **THE APPLIANCE 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 or power switch with damp hands.
- Move the power 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.
- Risk of electric shock. Power switch in "OFF" position does not de-energize all loads. Use extreme caution and exercise safe electrical practices.
- 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.
- Do not splash, pour, or spray water directly onto or into the appliance. This might cause short circuit, electric shock, corrosion, or failure.
- Children should be supervised to ensure that they do not play with 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 in or 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 appliance in a location that stays above freezing. Normal operating ambient temperature must be within 45°F to 100°F (7°C to 38°C).
- Level the icemaker. An out-of-level icemaker could result in improper operation, poor performance, water leaks, and/or damage to the icemaker.
- Do not leave the appliance on during extended periods of non-use, extended absences, or in sub-freezing temperatures. To properly prepare the appliance for these occasions, follow the instructions in "V. Preparing the Appliance for Periods of Non-Use."
- Do not place objects on top of the appliance.
- The ice storage bin is for ice use only. Do not store anything else in the ice storage bin.
- Protect the floor when moving the appliance to prevent damage to the floor.

I. Specifications

A. Electrical and Refrigerant Data

The rating label and nameplate provide electrical and refrigerant data and Year of Manufacture (YOM). 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. DCM-300BAK(-OS), DCM-500-BAK(-OS), and DCM-700BAK(-OS)

Single Phase			
Model Number	**DCM-300BAK(-OS)**	**DCM-500BAK(-OS)**	**DCM-700BAK(-OS)**
AC SUPPLY VOLTAGE	~115/60/1	~115/60/1	~115/60/1
COMPRESSOR	115V 30.5LRA	115V 46.0LRA	115V 53.0LRA
GEAR MOTOR	120V 1.45FLA 80W	120V 2.40FLA 1/4 HP	120V 3.0FLA 1/4 HP
FAN MOTOR	115V 0.8FLA 16W	115V 1.0FLA 55W	115V 1.75FLA 1/10 HP
AGITATING MOTOR	115V 0.9FLA 55W	115V 0.9FLA 55W	120V 1.8FLA 110W
DISPENSING MOTOR	115V 0.9FLA 55W	115V 0.9FLA 55W	120V 0.9FLA 55W
OTHER	120V 0.2A	120V 0.2A	120V 0.6A
MAXIMUM FUSE SIZE	20 AMPS	20 AMPS	20 AMPS
MAX. HACR BREAKER (USA ONLY)	20 AMPS	20 AMPS	20 AMPS
MAX. CIRCUIT BREAKER (CANADA ONLY)	20 AMPS	20 AMPS	20 AMPS
MINIMUM CIRCUIT AMPACITY	20 AMPS	20 AMPS	20 AMPS
DESIGN PRESSURE kPa (PSI)	HI-2730 (396) LO-1310 (190)	HI-2730 (396) LO-1310 (190)	HI-2730 (396) LO-1310 (190)
REFRIGERANT g (oz.)	R-290 135 (4.8)	R-290 133 (4.7)	R-290 150 (5.3)
CLIMATE CLASS	5	5	5
INSULATION BLOWING GAS	HFO 1233 ZD (E)	HFO 1233 ZD (E)	HFO 1233 ZD (E)
MINIMUM ROOM FLOOR AREA M^2 (FT^2)	6.5 (69.5)	6.4 (68.5)	7.2 (77.3)
HARVEST RATE	≤1,200 LB/DAY (CONTINUOUS)	≤1,200 LB/DAY (CONTINUOUS)	≤1,200 LB/DAY (CONTINUOUS)

2. DCM-500BWK(-OS) and DCM-700-BWK(-OS)

Single Phase		
Model Number	**DCM-500BWK(-OS)**	**DCM-700BWK(-OS)**
AC SUPPLY VOLTAGE	~115/60/1	**DATA PENDING**
COMPRESSOR	115V 46.0LRA	
GEAR MOTOR	120V 2.40FLA 1/4 HP	
FAN MOTOR	120V 1.0FLA 55W	
AGITATING MOTOR	115V 0.9FLA 55W	
DISPENSING MOTOR	115V 0.9FLA 55W	
OTHER	120V 0.2A	
MAXIMUM FUSE SIZE	20 AMPS	
MAX. HACR BREAKER (USA ONLY)	20 AMPS	
MAX. CIRCUIT BREAKER (CANADA ONLY)	20 AMPS	
MINIMUM CIRCUIT AMPACITY	20 AMPS	
DESIGN PRESSURE kPa (PSI)	HI-2730 (396) LO-1310 (190)	
REFRIGERANT g (OZ.)	R-290 130 (4.6)	
CLIMATE CLASS	5	
INSULATION BLOWING GAS	HFO 1233 ZD (E)	
MINIMUM ROOM FLOOR AREA M^2 (FT^2)	6.2 (67.0)	
HARVEST RATE	≤1,200 LB/DAY (CONTINUOUS)	

Note: Climatic Class 5: This appliance electrical safety tested for operation in maximum ambient temperature of 104°F (40°C) with 40% relative humidity. However, 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 appliance, for extended periods, outside of these normal temperature ranges may affect appliance performance.

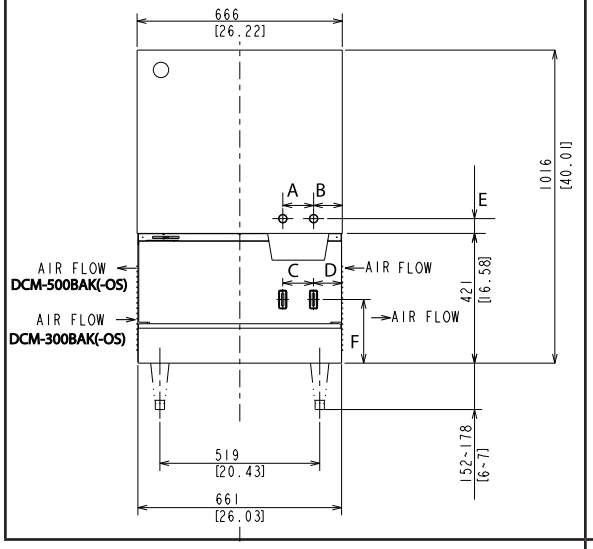
B. Dimensions/Connections

1. Air-Cooled Models

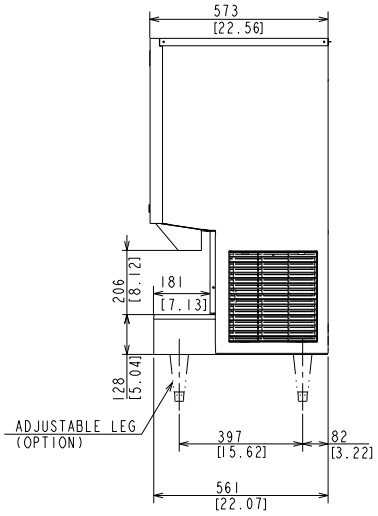
a) DCM-300BAK(-OS) and DCM-500BAK(-OS)

Units: mm [in.]

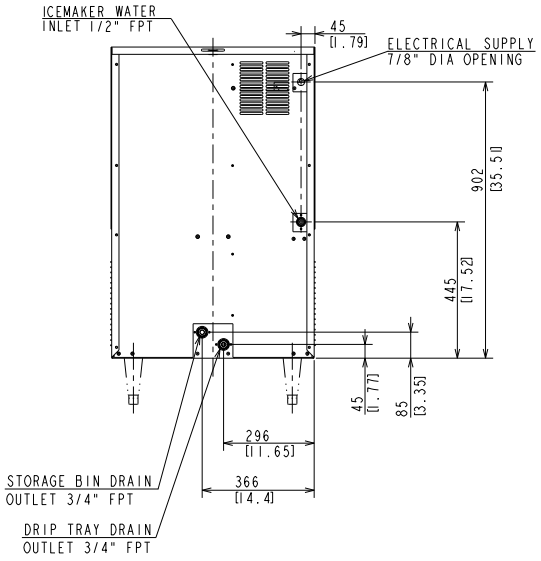
Front



Side



Rear



	DCM-300BAK DCM-500BAK	DCM-300BAK-OS DCM-500BAK-OS
A	100 [3.94]	NA
B	93 [3.66]	NA
C	NA	100 [3.94]
D	NA	99 [3.90]
E	48 [1.89]	NA
F	NA	207 [8.14]

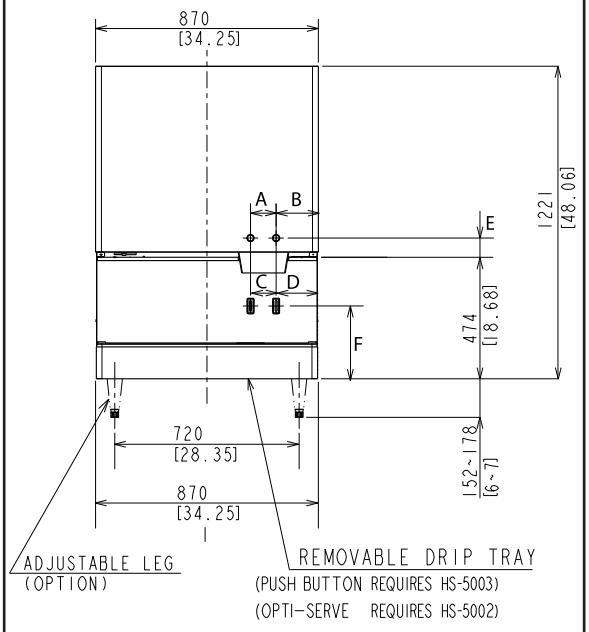
NOTICE

Allow 6" (15 cm) clearance at rear and sides for proper air circulation and ease of maintenance and/or service should they be required. Allow 24" (61 cm) clearance at top to allow for removal of the auger.

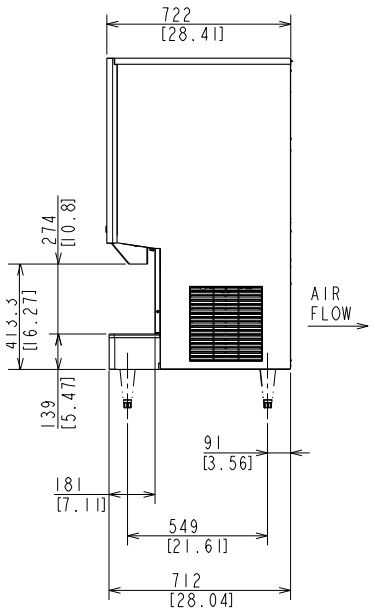
b) DCM-700BAK(-OS)

Unit: mm [in.]

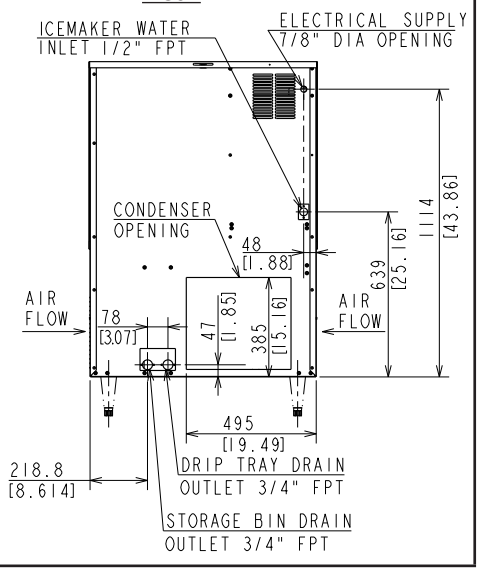
Front



Side



Rear



	DCM-700BAK	DCM-700BAK-OS
A	100 [3.94]	NA
B	165 [6.5]	NA
C	NA	100 [3.94]
D	NA	165 [6.5]
E	76 [2.99]	NA
F	NA	284 [11.20]

NOTICE

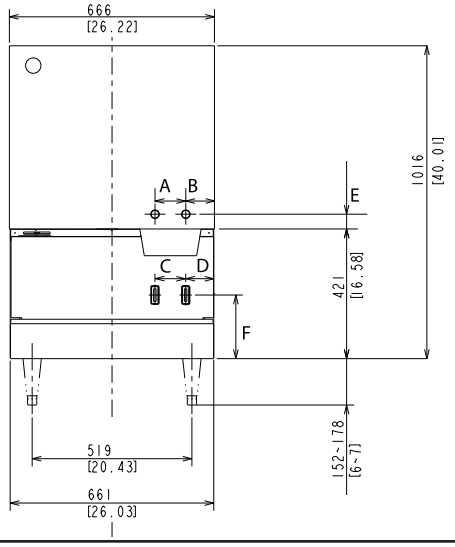
Allow 6" (15 cm) clearance at rear and sides for proper air circulation and ease of maintenance and/or service should they be required. Allow 24" (61 cm) clearance at top to allow for removal of the auger.

2. Water-Cooled Models

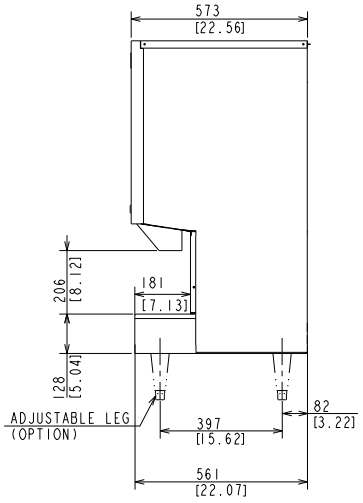
a) DCM-500BWK(-OS)

Units: mm [in.]

Front

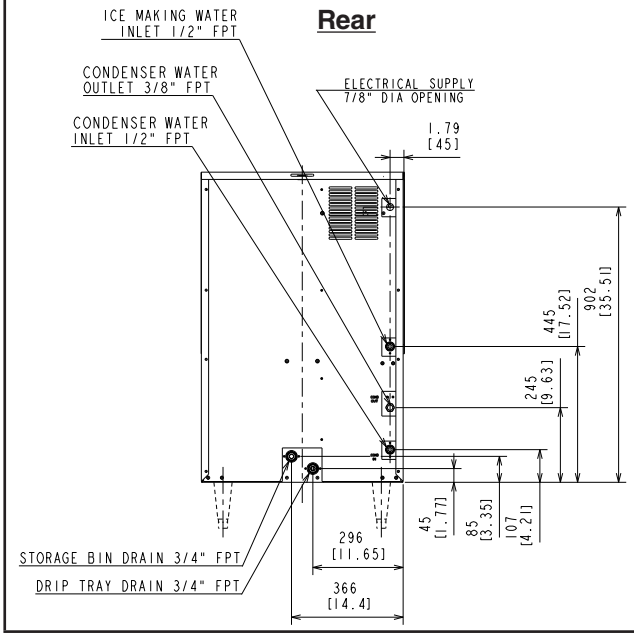


Side



	DCM-500BWK	DCM-500BWK-OS
A	100 [3.94]	NA
B	93 [3.66]	NA
C	NA	100 [3.94]
D	NA	99 [3.90]
E	48 [1.89]	NA
F	NA	207 [8.14]

Rear

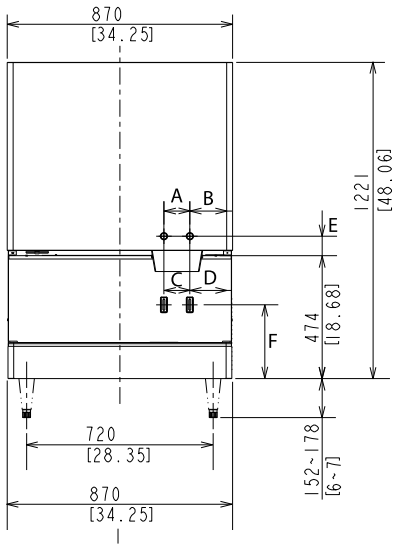


NOTICE

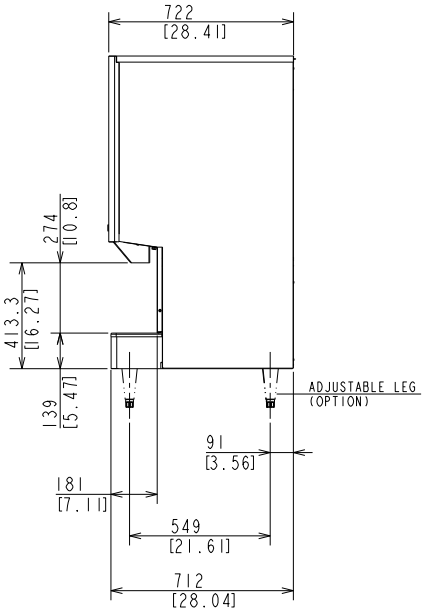
Allow 6" (15 cm) clearance at rear and sides for proper air circulation and ease of maintenance and/or service should they be required. Allow 24" (61 cm) clearance at top to allow for removal of the auger.

b) DCM-700BWK(-OS) Units: mm [in.]

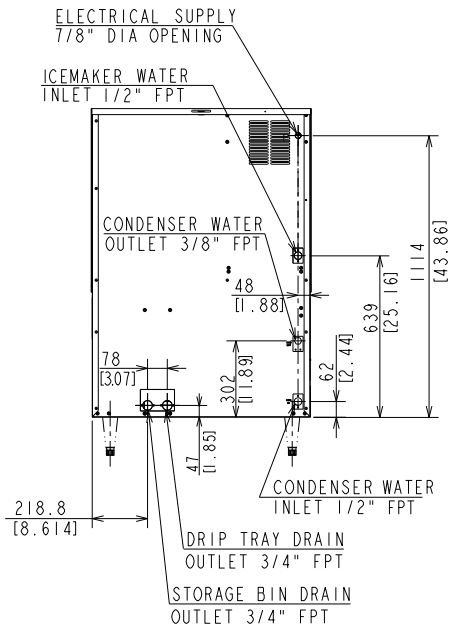
Front



Side



Rear



	DCM-700BWK	DCM-700BWK-OS
A	100 [3.94]	NA
B	165 [6.5]	NA
C	NA	100 [3.94]
D	NA	165 [6.5]
E	76 [2.99]	NA
F	NA	284 [11.2]

NOTICE

Allow 6" (15 cm) clearance at rear and sides for proper air circulation and ease of maintenance and/or service should they be required. Allow 24" (61 cm) clearance at top to allow for removal of the auger.

II. Installation Instructions

⚠ WARNING

- This appliance must be installed in accordance with applicable national, state, and local codes and regulations.
- This appliance to be installed in accordance with the Safety Standard for Refrigeration Systems ANSI/ASHRAE 15.
- 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 ice storage bin.

A. Location

1. General

This appliance uses an A3 flammable refrigerant. For refrigerant charge and minimum room floor area, see the table below.

⚠ DANGER

R-290 Class A3 Flammable Refrigerant Used

Model	R-290 Refrigerant Charge g (oz.)	Minimum Room Floor Area (operating or storage) Superficie Minimale du Local (service ou stockage) m² (ft²); m² (pi²)
DCM-300BAK(-OS)	135 (4.8)	6.5 (69.5)
DCM-500BAK(-OS)	133 (4.7)	6.4 (68.5)
DCM-500BWK(-OS)	130 (4.6)	6.2 (67.0)
DCM-700BAK(-OS)	150 (5.3)	7.2 (77.3)
DCM-700BWK(-OS)	Data Pending	Data Pending

≥ Area m² (ft²) (see "Minimum Room Floor Area" above)
≥ Superficie m² (pi²) (voir « Superficie Minimale du Local » ci-dessus)

⚠ DANGER continued

R-290 Refrigerant Charge:

- If greater than 114 g (4 oz.), do not install in public corridor or lobby.
- If greater than 152 g (5.3 oz.), do not install within 6 m (20 ft) of open flame.

Charge de réfrigérant R-290:

- Si elle est supérieure à 114 g (4 oz.), ne pas l'installer dans un couloir public ou un hall d'entrée.
- Si elle est supérieure à 152 g (5.3 oz.), ne pas l'installer à moins de 6 m (20 pi) d'une flamme nue.

This appliance is not intended for use above 2,000 m (6,561 ft). Installation above 2,000 m (6,561 ft) may adversely affect safety, performance, and component life.

NOTICE

- The appliance 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 appliance, for extended periods, outside of these normal temperature ranges may affect appliance performance.
- This appliance will not work at sub-freezing temperatures. To prevent damage to the water supply line, drain the appliance if the air temperature is going to go below 32°F (0°C). See "V. Preparing the Appliance for Periods of Non-Use."
- Opti-Serve Model (-OS): Sunlight, direct and indirect, can have an effect on the operation of the dispense sensors. If a problem is noticed, the appliance should be moved out of direct sunlight and/or farther away from any outside windows.

- The appliance should not be located next to ovens, grills, or other high heat producing equipment.
- The location should provide a firm and level foundation for the appliance.
- Allow 6" (15 cm) clearance at rear and sides for proper air circulation and ease of maintenance and/or service should they be required. Allow 24" (61 cm) clearance at top to allow for removal of the auger.

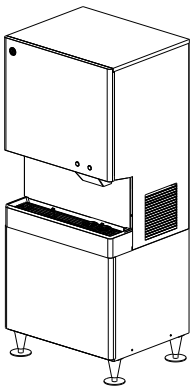
B. Checks Before Installation

- 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.
- This appliance can be installed on a countertop or on an optional stand. If using an optional stand, see the table below. For further options, contact your local Hoshizaki distributor.

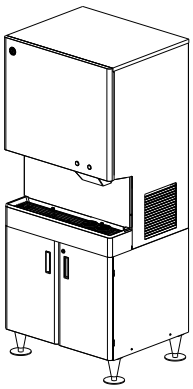
Model Number	SD Stand
DCM-300BAK(-OS)	SD-500
DCM-500B_K(-OS)	
DCM-700B_K(-OS)	SD-750

- The drip tray on the front of the DCM-700BWK(-OS) is removable for installations using an in-counter drain. Drip tray removal requires HS-5003 for DCM-700BWK or HS-5002 for DCM-700BWK-OS.

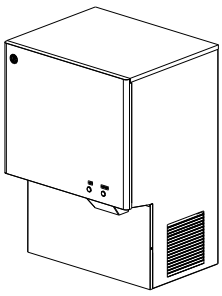
DCM on Hoshizaki Stand SD-700



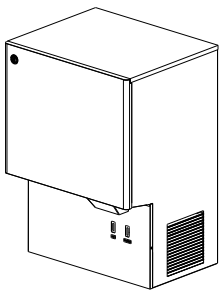
DCM on Hoshizaki Stand SD-500 or SD-750



DCM-700BWK with Drip Tray Removal Kit HS-5003



DCM-700BWK-OS with Drip Tray Removal Kit HS-5002



C. How to Remove Panels
See Fig. 1

- Front Panel: Remove the screw. Lift up and towards you. Disconnect the connector on push-button models.
- Top Panel: Lift up at front slightly, push rearward and lift off.
- Apron Panel: Remove the screws and pull towards you. Disconnect the connectors on optical-sensor models.
- Side Panel: Remove the screws and pull towards you.
- Ice Storage Bin Cover: Remove the thumbscrews and pull towards you.

Push-Button Models

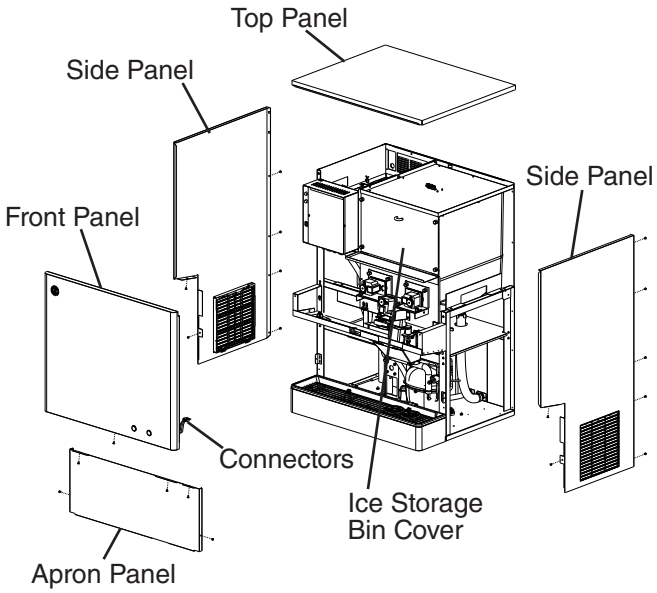


Fig. 1

Opti-Serve Models

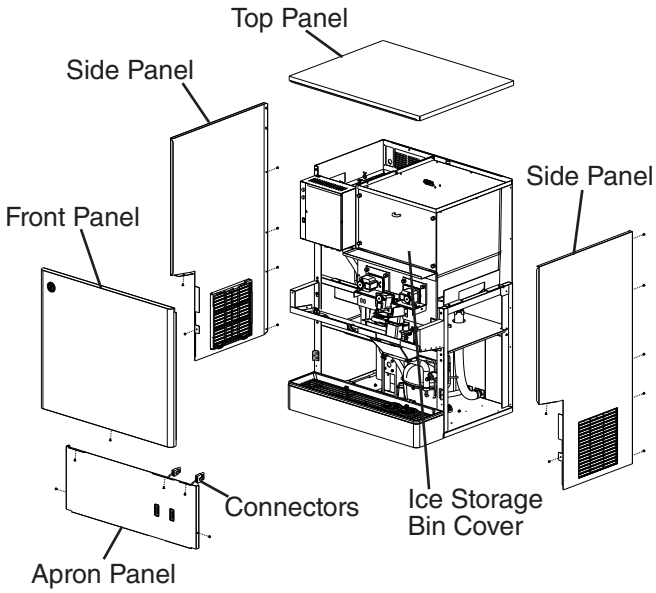


Fig. 2

D. Setup

1) Position the appliance in the selected permanent location. If applicable, attach optional 6" legs or attach to an optional stand. If attaching to a stand, refer to the instructions included with the stand.
2) Level the appliance in both the left-to-right and front-to-rear directions. If using optional 6" legs or an optional stand, adjust the legs to make the appliance level.
3) If mounting flat to a counter, seal the perimeter where the appliance contacts the counter with approved caulk compound in a smooth and easily cleanable manner.
4) Replace the panels in their correct positions.

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 appliance 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 APPLIANCE MUST BE GROUNDED.** Failure to properly ground the appliance could result in death or serious injury.
- To reduce the risk of electric shock, do not touch the control switch or power switch with damp hands.
- 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. 3.

- Usually an electrical permit and services of a licensed electrician are required.
- The maximum allowable voltage variation is ±6 percent of the nameplate rating.
- The white lead must be connected to the neutral conductor of the power source. ***NOTICE!*** **Miswiring may result in damage to the appliance.**
- The opening for the power supply connection is 7/8" DIA to fit a 1/2" trade size conduit.

⚠WARNING

ELECTRICAL CONNECTION

THIS UNIT MUST BE GROUNDED
Failure to properly ground or wire this unit could result in death, serious injury, or severe damage to the icemaker. The white lead must be connected to the neutral conductor of the power source. See diagram below.

115/60/1

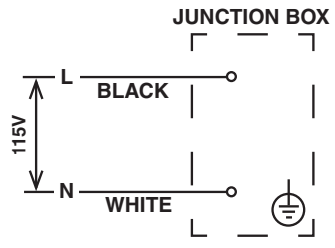


Fig. 3

F. Water Supply and Drain Connections
See Fig. 4, 5, and 6

⚠ WARNING

- Water supply and drain connections must be installed in accordance with applicable national, state, and local regulations.
- Connect to potable water supply only. Do not connect to a hot-water supply.

NOTICE

- Normal operating water temperature must 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 (69 kPa) and a maximum of 113 PSIG (779 kPa). If the pressure exceeds 113 PSIG (779 kPa), the use of a pressure reducing valve is required.
- 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.
- In areas where water damage is a concern, install in a contained area with a floor drain.
- Water line installation to the appliance is not warranted by Hoshizaki.
- Water-hammer issues must be resolved by a qualified plumber before installing the appliance. Water hammer can cause appliance damage that may lead to water leakage or flooding.
- A minimum of 3/4" nominal ID hard pipe or equivalent is required for the drain line. Installing a smaller diameter drain line will reduce water flow and may lead to water leakage or flooding.
- Be sure there is sufficient extra water supply line and drain line for the appliance to be pulled out for service.

- A plumbing permit and services of a licensed plumber may be required in some areas.
- Water supply line size is critical to the operation of the appliance. Failure to provide adequate water supply to the appliance may result in damage to the appliance, damage to property, and may void the warranty.
- The ice storage bin drain line, drip tray drain line, and water-cooled condenser drain line (if applicable) must be run separately.

1. Icemaker

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

- A water supply line shut-off valve and drain valve must be installed.
- Water supply pressure must be a minimum of 10 PSIG (69 kPa) and a maximum of 113 PSIG (779 kPa). If the pressure exceeds 113 PSIG (779 kPa), the use of a pressure reducing valve is required.
- 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) must be between the end of the drain pipes from the ice storage bin, drip tray, and water-cooled condenser (if applicable) and the floor drain.

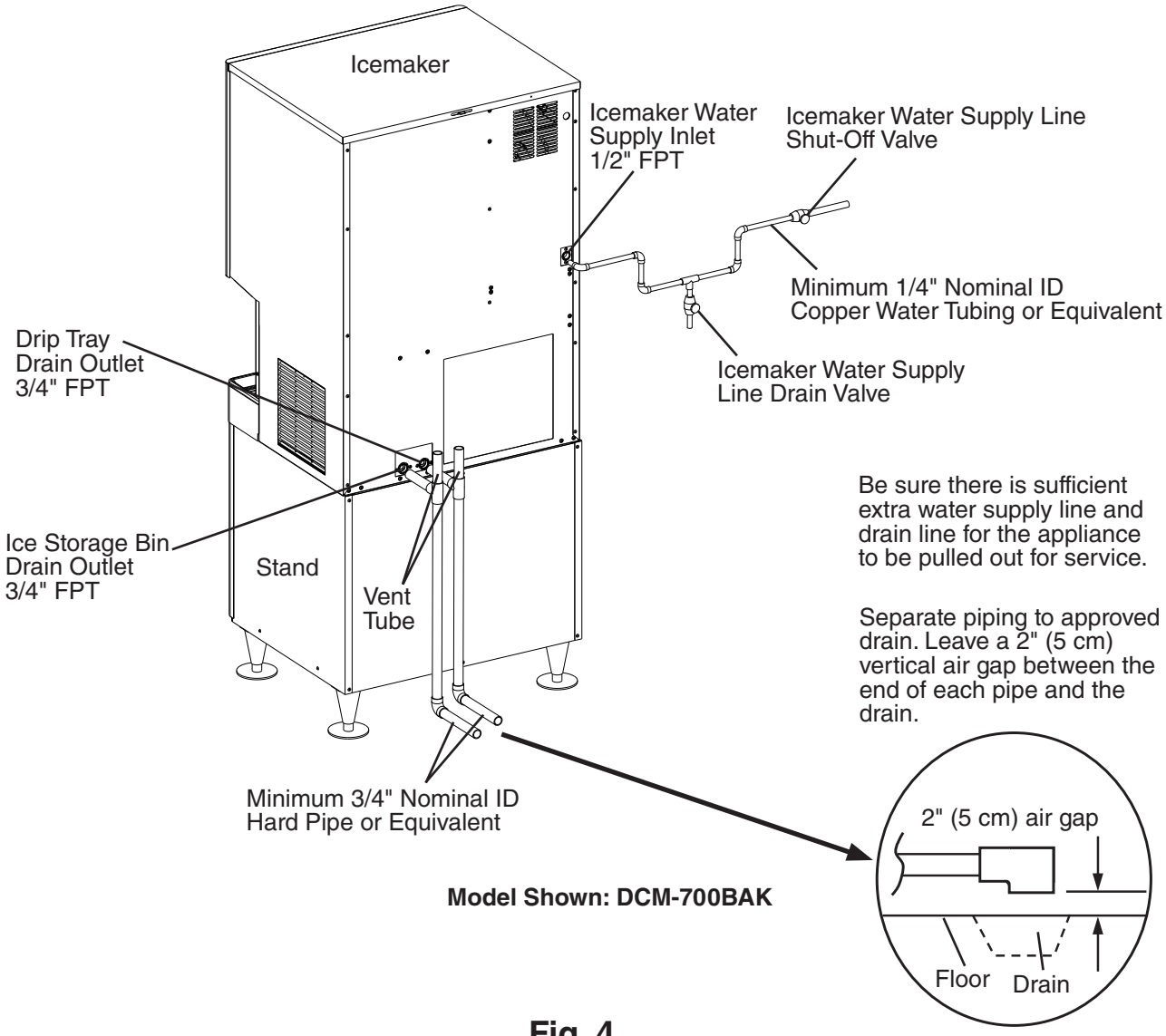


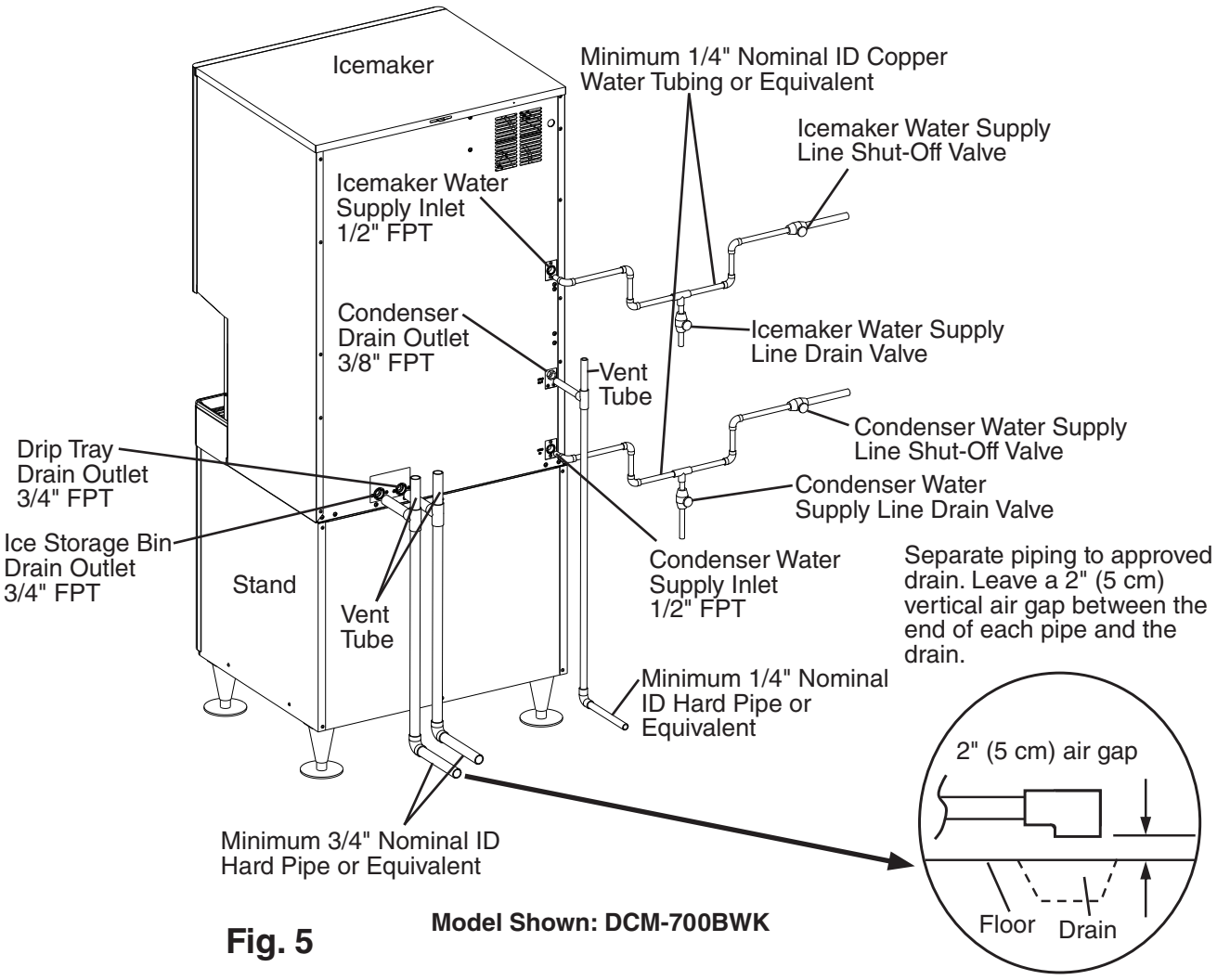
Fig. 4

2. Water-Cooled Condenser

a) Connection to an Open Drain System

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

- A condenser water supply line shut-off valve and drain valve must be installed.
- In some areas, a back flow preventer may be required in the condenser water supply line.
- In order to maintain the proper high side pressure, the condenser water supply inlet temperature should not drop below 45°F (7°C) and the condenser drain outlet temperature must be in the 104°F to 115°F (40°C to 46°C) range. Once the icemaker installation is complete, confirm the condenser drain outlet temperature 5 minutes after a freeze cycle starts. If the condenser drain outlet temperature is not in the proper range, use a flat blade screwdriver to rotate the adjustment screw on the water-regulating valve until the temperature is in the proper range (rotate counterclockwise to raise temperature or clockwise to lower temperature).



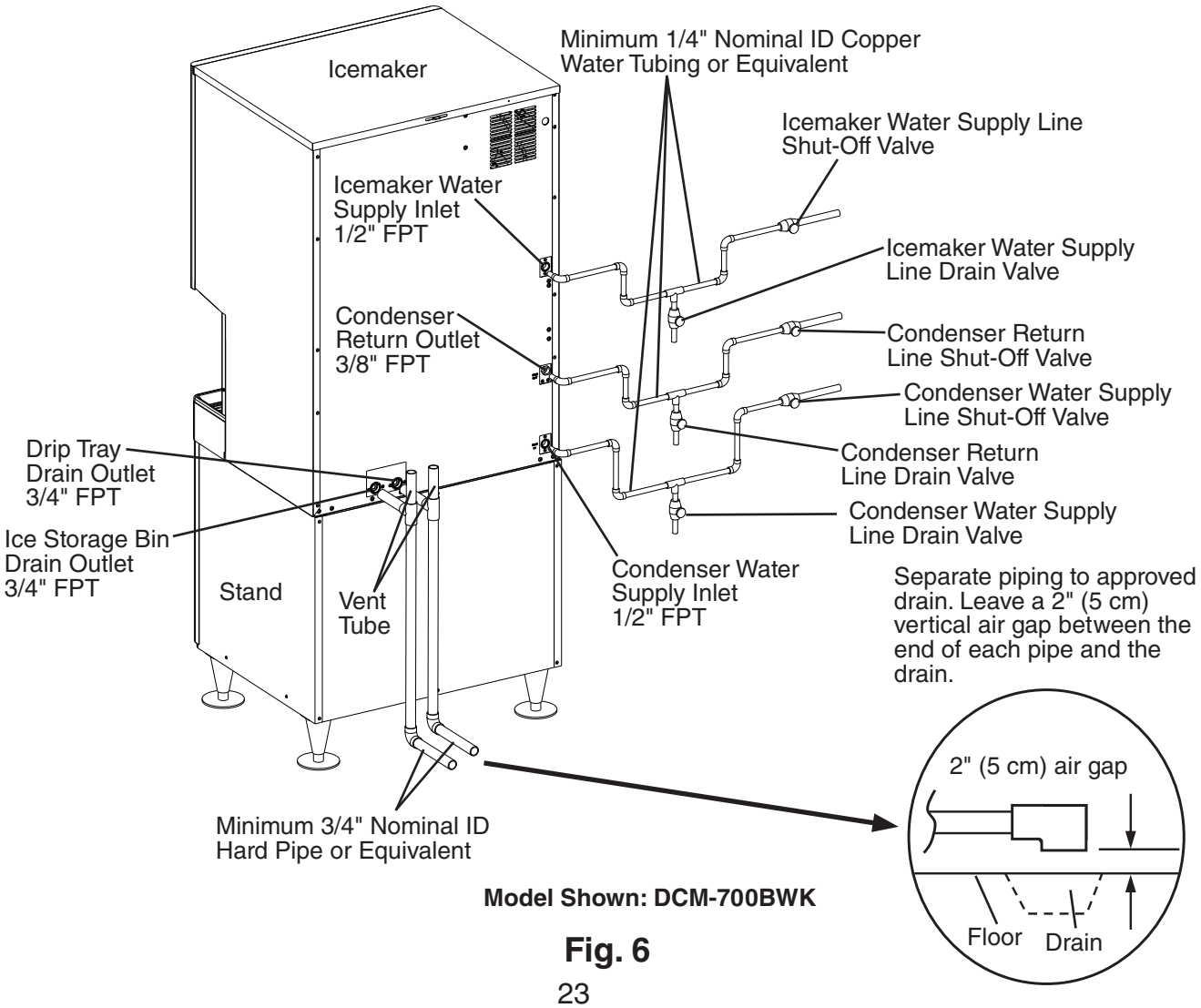
Model Shown: DCM-700BWK

Fig. 5

b) Connection to a Closed Loop System

Condenser Water Supply Inlet	Minimum Condenser Water Supply Line Size	Condenser Return Outlet	Minimum Condenser Return Line Size
1/2" Female Pipe Thread (FPT)	1/4" Nominal ID Copper Water Tubing or Equivalent	3/8" Female Pipe Thread (FPT)	1/4" Nominal ID Copper Water Tubing or Equivalent

- Shut-off valves and drain valves must be installed at both the condenser water supply inlet and condenser return outlet.
- The water supply to the condenser should not drop below 4 GPM (0.01514 m^3/min).
- The pressure differential between the condenser water supply inlet and condenser return outlet must be no less than 10 PSIG (69 kPa).
- When using a glycol blend, the solution mixture should be less than 30% glycol.
- In order to maintain the proper high side pressure, the condenser water supply inlet temperature should not drop below 45°F (7°C) and the condenser drain outlet temperature must be in the 104°F to 115°F (40°C to 46°C) range. Once the icemaker installation is complete, confirm the condenser drain outlet temperature 5 minutes after a freeze cycle starts. If the condenser drain outlet temperature is not in the proper range, use a flat blade screwdriver to rotate the adjustment screw on the water-regulating valve until the temperature is in the proper range (rotate counterclockwise to raise temperature or clockwise to lower temperature).



Model Shown: DCM-700BWK

Fig. 6

G. Final Checklist

1. Pre-Startup

1) Is the appliance level?
2) Is the appliance 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 6" (15 cm) clearance at the rear and sides and 24" (61 cm) at the top for proper air circulation and ease of maintenance and service?
4) Have the shipping carton, tape, and packing material been removed from the appliance? Has the protective plastic film been removed from the panels?
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 appliance?
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 (69 kPa) and a maximum of 113 PSIG (779 kPa)?
8) If the appliance is mounted flat to a counter, has the perimeter where the appliance contacts the counter been sealed with approved caulk compound? If the appliance is on a stand, has it been secured to the stand as outlined in the stand's instructions?
   On DCM-700BWK(-OS), if the drip tray has been removed, has the icemaker been secured to the counter as outlined in the HS kit's instructions?
   HS-5003 for DCM-700BAK or DCM-700BWK.
   HS-5002 for DCM-700BAK-OS or DCM-700BWK-OS.
9) 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? Has the fan blade (if applicable) been checked to make sure it turns freely?
10) Continue to "III. Operating Instructions."

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 ice storage bin.

1) Has the bin control operation been confirmed?
2) Has the ice and water dispenser operation been confirmed?
3) Are all components, fasteners, and thumbscrews securely in place?
4) 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?
5) Has the end user been given the contact information of an authorized service agent?
6) Has the warranty card been filled out and forwarded to the factory for warranty registration?

III. Operating Instructions

R-290 Class A3 Flammable Refrigerant Used

⚠ DANGER

Risk of Fire or Explosion. Flammable Refrigerant Used.

- Be sure to follow all Important Safety Information located at the beginning of this manual.
- 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 is costly water damage.
- Keep clear of obstruction all ventilation openings in the appliance enclosure or in the structure for building-in.

Risque D'Incendie ou D'Explosion. Fluide Frigorigène Inflammable Utilisé.

- Veillez à respecter toutes les consignes de sécurité importantes figurant au début de ce manuel.
- Le fait de ne pas installer, utiliser et entretenir l'appareil conformément à ce manuel aura des conséquences négatives sur la sécurité, les performances, la durée de vie des composants et la couverture de la garantie, et peut entraîner des dégâts des eaux coûteux.
- Ne pas obstruer les ouvertures de ventilation dans l'enceinte de l'appareil ou dans la structure d'encastrement.

A. Important Notes About Usage

NOTICE

- Protect the floor when moving the appliance to prevent damage to the floor.
- Do not leave the appliance on during extended periods of non-use, extended absences, or in sub-freezing temperatures. To properly prepare the appliance for these occasions, follow the instructions in "V. Preparing the Appliance for Periods of Non-Use."
- Do not place objects on top of the appliance.
- If applicable, keep ventilation openings in the appliance clear of obstruction.

B. Startup and Bin Control Check

⚠ WARNING

- All parts are factory-adjusted. Improper adjustments may adversely affect safety, performance, component life, and warranty coverage.
- To reduce the risk of electric shock, do not touch the power switch or control switch with damp hands.
- If you have to slide the appliance back for a built-in installation, make sure you do not damage or pinch the water supply line, or drain line.

NOTICE

- If the appliance is turned off, wait for at least 3 min. before restarting the appliance to prevent damage to the compressor.
- At startup, confirm that all internal and external connections are free of leaks.

1) Open the water supply line shut-off valve(s).

2) Move the control switch to the "OFF" position. See Fig. 7.

3) Remove the front panel, then move the power switch to the "ON" position. Replace the front panel in its correct position, then turn on the power supply.

4) Move the control switch to the "ICE" position to start the automatic icemaking process.

5) Once the appliance starts to produce ice, allow it to run for another 30 minutes.

6) After 30 min., move the control switch to the "OFF" position, pause momentarily, then move to the "DRAIN" position. Allow the water system to drain for 5 minutes.
   Note: a) A momentary pause in the "OFF" position is necessary to de-energize the control board when moving the control switch between "ICE" and "DRAIN." Otherwise there is a delay of several minutes before the new selection takes effect.
   b) If the control switch is left in the "DRAIN" position for 10 minutes or more, a 2-beep alarm sounds every 5 seconds. Move the control switch out of the "DRAIN" position to clear the alarm.

7) Dispense all of the ice from the ice storage bin. Note: Ice dispenses continuously for a maximum of 60 seconds per activation.

8) Remove the front panel, then remove the ice storage bin cover. See Fig. 7.

9) Move the control switch to the "ICE" position.

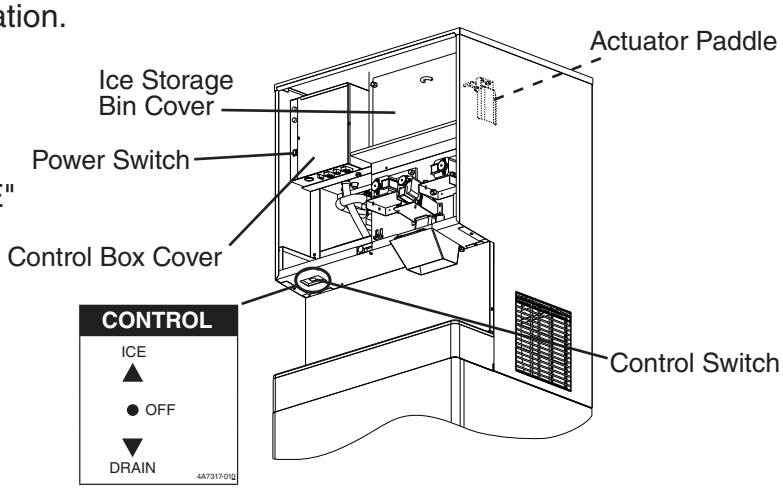


Fig. 7

Bin Control Check

10) Confirm bin control operation. Remove the control box cover, move the control switch to the "ICE" position. See Fig. 7. After the "GM" LED on the control board turns on (5 sec.), the 5-min. ice purge timer starts. Bypass the 5-min. ice purge timer by pressing the "SERVICE" button on the control board. See Fig. 8. **WARNING! Risk of electric shock. Care should be taken not to touch live terminals.** Otherwise, wait for the 5-min. ice purge timer to terminate and the compressor to start. Next, press and hold the actuator paddle located inside the ice storage bin. **WARNING! Keep hands, hair, and loose clothing clear of the agitator(s) inside the ice storage bin.** 6 to 10 sec. later, the 90-sec. compressor shutdown timer starts. Once the 90-sec. compressor shutdown timer terminates, the compressor de-energizes and the 60-sec. gear motor shutdown timer starts. Once the 60-sec. gear motor timer terminates, the gear motor de-energizes.

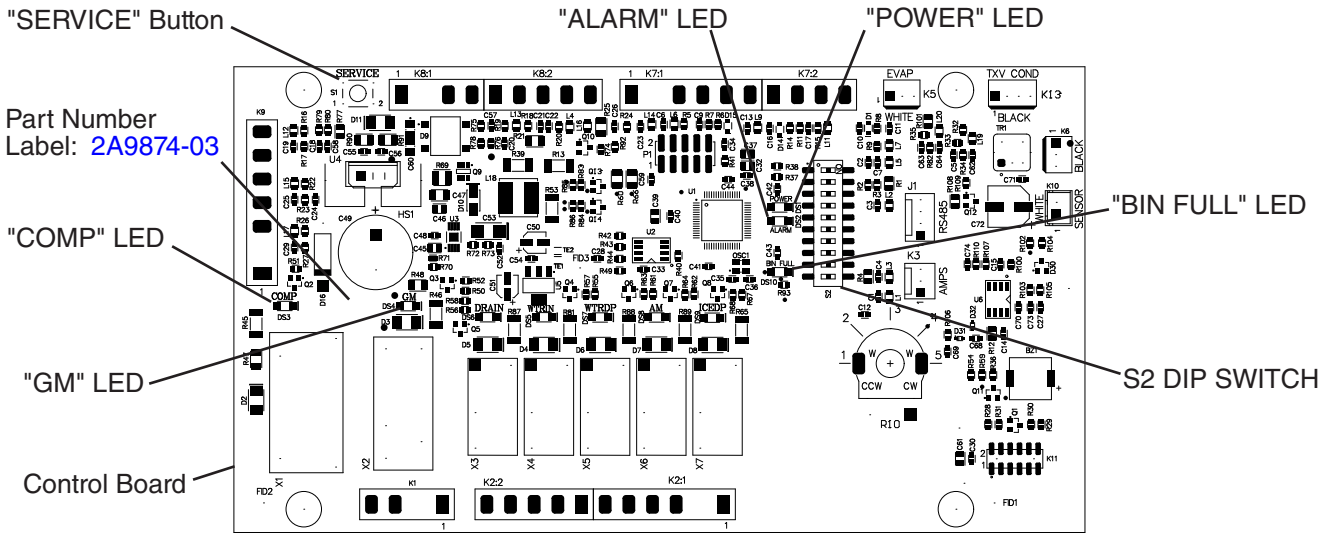


Fig. 8

11) Release the actuator paddle. Move the control switch to the "OFF" position, then move the power switch to the "OFF" position. Turn off the power supply. Replace the control box cover and ice storage bin cover in their correct positions.

12) Clean the ice storage bin liner, cover, and components using a neutral cleaner. Rinse thoroughly after cleaning. **WARNING! CHOKING HAZARD: Ensure all components, fasteners, and thumbscrews are securely in place. Make sure that none have fallen into the ice storage bin.** Replace the ice storage bin cover in its correct position.

13) Move the power switch to the "ON" position, then replace the front panel in its correct position. Turn on the power supply, then move the control switch to the "ICE" position to start the automatic icemaking process.

14) Confirm that the water dispenser is operating correctly.

15) Return to "II.G.2. Post-Startup" and complete final checklist.

C. Alarm Safeties

Should an alarm occur, follow the instructions in the table below to address the alarm. If an alarm continues to occur, contact an authorized service agent.

In case of alarm, the built-in safeties shut down the unit, the orange "ALARM" LED turns on, and audible alarms sound as listed below.

No. of Beeps (every 5 sec.)	Type of Alarm	Notes and Reset Options
1	**Low-Water Safety** UFS open > 90 sec. after WV energized.	Automatic reset once water supply is restored and UFS closes.
2	**Control Switch** In "DRAIN" position longer than 15 min.	Automatic reset once the control switch is moved to the "ICE" position.
3	**High-Pressure Switch** First and second activation in 1 hr.	Automatic reset once pressure drops below the high pressure threshold and the high-pressure switch closes.
4	**High-Pressure Switch** Third activation in 1 hr.	Turn power off. Call for service. To avoid possible catastrophic failure, it is recommended to leave the icemaker off until this alarm is resolved.
5	**Freeze Timer** WV off > 30 min. since last WV activation.	Call for service. Manual reset. Turn power off and on again. Check for FS stuck (up), WV leaking by, TXV defective, LLV not opening, low charge, HM not bypassing, or inefficient Comp.
6	**Low Voltage** 92VAC ± 5% or less.	Green "POWER" LED turns off if voltage protection operates. Control voltage safeties automatically reset when voltage is corrected.
7	**High Voltage** 147VAC ± 5% or more.	
8	**a) Gear Motor Fuse or Protector Open** CCR contacts fail to close. **Used on all models.**	Turn power off. Check for GM fuse or protector open. Replace fuse or let protector cool and reset. If persistent trips occur, call for service.
	b) Evaporator Thermistor At GM startup Evaporator thermistor < -4°F (-20°C). **Used on Cubelet (-C), (-SC), and (-CB) models only.**	Turn power off. Call for service. To avoid possible catastrophic failure, it is recommended to leave the icemaker off until this alarm is resolved. Manual reset. Turn power off and on again.
9	**Bin Control 2 (Mechanical)** Open Circuit Control Board K8 (#3 and #4) **Not used on DCM or self-contained models.**	Manual reset. Turn power off and on again. **Modular Flaker and Cubelet (-C), (-SC), and (-CB) Models:** Control Board S2 Dip Switch #7 must be ON. **DCM and Self-Contained Models:** Control Board S2 Dip Switch #7 must be OFF.
10	**Evaporator Thermistor** Evaporator thermistor reaches -22°F (-30°C) for 3 consecutive cycles. **Used on Cubelet (-C), (-SC), and (-CB) models only.** **Not used on DCM or self-contained models.**	Turn power off. Call for service. To avoid possible catastrophic failure, it is recommended to leave the icemaker off until this alarm is resolved. Manual reset. Turn power off and on again.

Legend: **CCR**–compressor control relay; **Comp**–compressor; **DV**–drain valve; **EH**–evaporator heater; **FM**–fan motor; **FMR**–fan motor-remote; **FS**–float switch; **GM**–gear motor; **HM**–headmaster (C.P.R.); **LLV**-liquid line valve; **SLV**–suction line valve; **TXV**–thermostatic expansion valve; **UFS**–upper float switch; **WV**–inlet water valve

IV. Maintenance

The appliance must be maintained in accordance with the instruction manual and labels provided with the appliance. Consult with your local Hoshizaki Certified Service Representative about maintenance service. To obtain the name and phone number of your local Hoshizaki Certified Service Representative, visit www.hoshizakiamerica.com.

⚠ WARNING

- Items listed under "IV.A. User Maintenance Schedule" may be performed by the user; otherwise, only qualified service technicians should service the appliance.
- Failure to install, operate, and maintain the appliance in accordance with this manual will adversely affect safety, performance, component life, and warranty coverage.
- To reduce the risk of electric shock, do not touch the control switch or power switch with damp hands.
- **Before Performing Maintenance/Service:** Move the power switch to the "OFF" position, then turn off the power supply. Lockout/Tagout to prevent the power supply from being turned back on inadvertently. Power switch in "OFF" position does not de-energize all loads.
- **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 ice storage bin.
- Do not place fingers or any other objects into the ice discharge opening.
- After service, make sure that there are no wires pinched between the panels and appliance. Make sure you do not damage or pinch the water supply line or drain line.

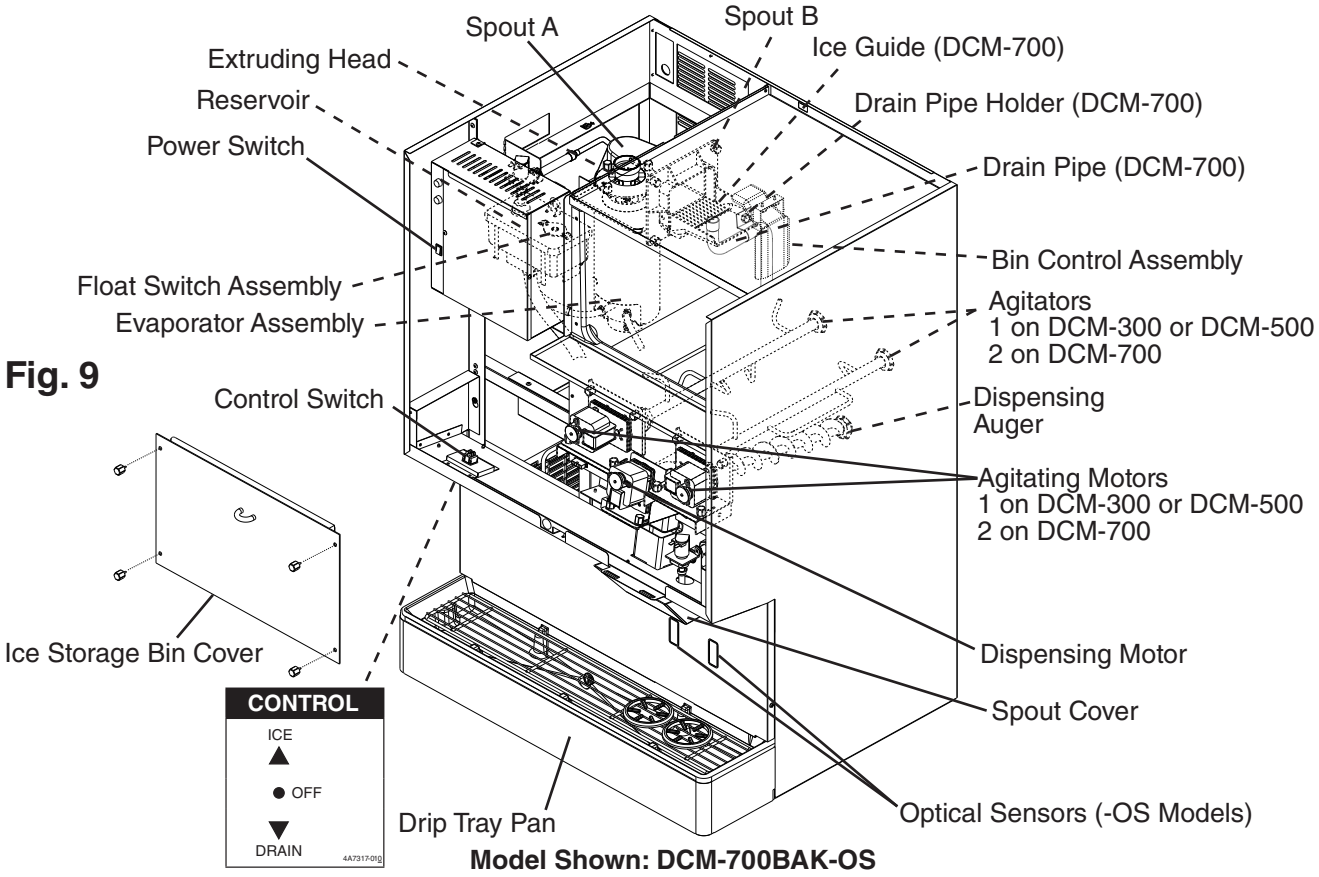


Fig. 9

Model Shown: DCM-700BAK-OS

A. User Maintenance Schedule

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

Maintenance Schedule		
Frequency	**Area**	**Task**
Bi-Weekly	Air Filter	Inspect. Wash with warm water and neutral cleaner if dirty.
Monthly	Appliance 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.

B. Service Maintenance Schedule

The service maintenance schedule below is a guideline; service maintenance items are to be performed by qualified service technicians only. More frequent maintenance may be required depending on water quality, the appliance's environment, and local sanitation regulations.

Maintenance Schedule		
Frequency	**Area**	**Task**
Monthly	External Water Filters	Check for proper pressure and change if necessary.
Every 6 Months	Appliance and Ice Storage Bin	Clean and sanitize per the cleaning and sanitizing instructions provided in this manual.
	Evaporator Condensate Drain Pan and Gear Motor Drain Pan	Wipe down with a clean cloth and warm water. Slowly pour one cup of sanitizing solution (prepare as outlined in the sanitizing instructions in this manual) into the evaporator condensate drain pan. Be careful not to overflow the pan. This solution will flow down to the gear motor drain pan and out the drain line to sanitize these areas. Repeat with a cup of clean water to rinse.
	Appliance, Ice Storage Bin, and Drip Tray Drains	Check to make sure they are clear.
	Extruding Head Seal Bolts	Inspect for leakage around seal bolts. Tighten (see torque value below) or replace as necessary. Seal bolts must be replaced once removed because seal material is one-time use only. If new seal bolts do not have preapplied threadlocker, apply Loctite 243 or equivalent threadlocker to seal bolt threads. • *Torque:* 11.1 ft-lb/15 N·m Tighten 2 times. Allow at least 5 sec. in between each tightening.
Yearly	Inlet Water Valve, Dispense Water Valve, and Drain Valve	Close the icemaker water supply line shut-off valve and drain the water system. Clean the inlet water valve screen and clean and inspect the drain valve.
	Water Hoses	Inspect the water hoses and clean/replace if necessary.
	Condenser	Inspect. Clean if necessary by using a brush or vacuum cleaner.
	Appliance	Inspect for oil spots, loose components, fasteners, and wires.
	Upper Bearing (extruding head)	Check for wear using .02" round stock or pin gauge. Replace both upper bearing and lower bearing if wear exceeds factory recommendations. See the Service Manual for details.
After 3 Years, then Yearly	Upper Bearing (extruding head); Lower Bearing and O-Ring (lower housing); Mechanical Seal; Evaporator Cylinder; Auger	Inspect. Replace both upper bearing and lower bearing if wear exceeds factory recommendations. Replace the mechanical seal if the seal's contact surfaces are worn, cracked, or scratched. See the Service Manual for details.

C. Cleaning and Sanitizing Instructions

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

⚠ WARNING

- To prevent injury to individuals and damage to the appliance, do not use ammonia type cleaners.
- **Before Servicing**: Move the power switch to the "OFF" position, then unplug the appliance from the electrical outlet.
- Carefully follow any instructions provided with the cleaning and sanitizing solutions.
- Always wear liquid-proof gloves and goggles to prevent the cleaning and sanitizing solutions from coming into contact with skin or eyes.
- After cleaning and sanitizing, do not use ice made from the cleaning and sanitizing solutions. Be careful not to leave any solution on the parts or in the ice storage bin.

1. Cleaning Solution

Dilute 9 fl. oz. (266 ml or 18 tbs) of Hoshizaki "Scale Away" with 1.6 gal. (6.0 l) of warm water. This is a minimum amount. Make more solution if necessary. ***IMPORTANT!*** **For safety and maximum effectiveness, use the solution immediately after dilution.**

2. Cleaning Procedure

1) Close the icemaker water supply line shut-off valve.
2) Move the control switch to the "OFF" position, pause momentarily, then move to the "DRAIN" position. See Fig. 9. Allow the water system to drain for 5 minutes.
   Note: a) A momentary pause in the "OFF" position is necessary to de-energize the control board when moving the control switch between "ICE" and "DRAIN." Otherwise there is a delay of several minutes before the new selection takes effect.
   b) If the control switch is left in the "DRAIN" position for 10 minutes or more, a 2-beep alarm sounds every 5 seconds. Move the control switch out of the "DRAIN" position to clear the alarm.
3) Dispense all of the ice from the ice storage bin. Note: Ice dispenses continuously for a maximum of 60 seconds per activation.
4) Move the control switch to the "OFF" position, then turn off the power supply. Remove the front and top panels, then move the power switch to the "OFF" position.
5) Remove the ice storage bin cover. Remove spout B, then remove spout A.
6) Pour the cleaning solution over the extruding head until the evaporator assembly and the reservoir are full and the solution starts to overflow into the drain pan.
   Note: If there is excess scale on the extruding head, fill the evaporator assembly and reservoir as described above, then use a clamp on the reservoir hose between the reservoir and evaporator assembly to block flow. Pour additional cleaning solution over the extruding head until the evaporator assembly is completely full.

7) Replace spout A, spout B, and the ice storage bin cover in their correct positions.

8) Allow the icemaker to sit for 10 minutes before operation. If you placed a clamp on the reservoir hose in step 6, remove it before operation.

9) In bad or severe water conditions, clean the float switch assembly as described below. Otherwise, continue to step 10.
   a. Remove the float switch assembly from the reservoir cover.
   b. Wipe down the float switch assembly with the cleaning solution.
   c. Rinse the float switch assembly thoroughly with clean water.
   d. Replace the float switch assembly in its correct position.

10) Move the power switch to the "ON" position and replace the panels in their correct positions. Turn on the power supply, then move the control switch to the "ICE" position. Make ice using the solution until the icemaker stops making ice.

11) Move the control switch to the "OFF" position, pause momentarily, then move to the "DRAIN" position. Allow the water system to drain for 5 minutes.

12) Move the control switch to the "OFF" position, pause momentarily, then move to the "ICE" position. Open the icemaker water supply line shut-off valve to supply water to the reservoir.

13) After the gear motor starts, move the control switch to the "OFF" position, pause momentarily, then move to the "DRAIN" position. Allow the water system to drain for 5 minutes.

    Note: If you do not sanitize the appliance, move the control switch to the "OFF" position, pause momentarily, then move to the "ICE" position after the water system drains. Allow the icemaker to run for 30 minutes, then move the control switch to the "OFF" position. Turn off the power supply, then remove the front panel and ice storage bin cover. Move the power switch to the "OFF" position. Go to step 12 in "IV.C.2.c) Cleaning and Sanitizing Procedure."

14) Move the control switch to the "OFF" position, then turn off the power supply.

15) Close the icemaker water supply line shut-off valve.

3. Sanitizing Solution

Dilute 0.6 fl. oz. (16.2 ml or 1 tbs) of a 7.5% sodium hypochlorite solution (chlorine bleach) with 1.6 gal. (6.0 l) of warm water. This is a minimum amount. Make more solution if necessary. ***IMPORTANT!*** **For safety and maximum effectiveness, use the solution immediately after dilution.**

4. Sanitizing Procedure - Following Cleaning Procedure

1) Make sure the control switch is in the "OFF" position, the power supply is off, and the icemaker water supply line shut-off valve is closed.
2) Remove the front and top panels, then move the power switch to the "OFF" position.
3) Remove the ice storage bin cover. Remove spout B, then remove spout A.
4) Pour the sanitizing solution over the extruding head until the evaporator assembly and the reservoir are full and the solution starts to overflow into the drain pan.
5) Replace spout A, spout B, and the ice storage bin cover in their correct positions.
6) Allow the icemaker to sit for 10 minutes before operation.
7) Move the power switch to the "ON" position and replace the panels in their correct positions. Turn on the power supply, then move the control switch to the "ICE" position. Make ice using the solution until the icemaker stops making ice.
8) Move the control switch to the "OFF" position, pause momentarily, then move to the "DRAIN" position. Allow the water system to drain for 5 minutes.
9) Move the control switch to the "OFF" position, pause momentarily, then move to the "ICE" position. Open the icemaker water supply line shut-off valve to supply water to the reservoir.
10) After the gear motor starts, move the control switch to the "OFF" position, pause momentarily, then move to the "DRAIN" position. Allow the water system to drain for 5 minutes.
11) Move the control switch to the "OFF" position, pause momentarily, then move to the "ICE" position. Allow the icemaker to run for 30 minutes, then clean and sanitize the dispensing components as outlined below.

5. Dispensing Components

Perform after cleaning and sanitizing the water system as outlined above.

a) Cleaning Solution

Dilute 9 fl. oz. (266 ml or 18 tbs) of Hoshizaki "Scale Away" with 1.6 gal. (6.0 l) of warm water.

b) Sanitizing Solution

Dilute 0.6 fl. oz. (16.2 ml or 1 tbs) of a 7.5% sodium hypochlorite solution (chlorine bleach) with 1.6 gal. (6.0 l) of warm water.

c) Cleaning and Sanitizing Procedure

1) Move the control switch to the "OFF" position, then turn off the power supply.
2) Remove the front and top panels, then move the power switch to the "OFF" position.
3) Remove the ice storage bin cover.

4) Remove the motor bracket thumbscrews, first from the vertical plane and then from the horizontal plane. While holding on to the corresponding agitator or auger, move the agitating motor or the dispensing motor towards you. Remove the agitator(s) and the dispensing auger from the ice storage bin. See Fig. 9. Note: DCM-300 and DCM-500 models have 1 agitator and DCM-700 models has 2 agitators.

5) Remove the bin control assembly. See Fig. 10.

6) Remove the snap pin, shaft, and actuator.

7) Remove spout B, spout A, and their gaskets.

8) Remove the spout cover, ice dispensing spout, and water dispensing nozzle. See Fig. 11. On DCM-700 models, also remove the ice guide, drain pipe holder, and drain pipe from the ice storage bin. See Fig. 9.

9) Immerse the agitator(s), dispensing auger, and parts removed in steps 5 through 8 in the cleaning solution for 15 min. Rinse the parts thoroughly with clean water, then immerse the parts into the sanitizing solution for 15 min. Rinse the parts thoroughly with clean water. On optical sensor models (-OS), wipe the optical sensors with cleaning solution and then with a clean, damp cloth.

10) Wipe the shutter located above the ice dispensing spout thoroughly with a clean cloth.

11) Reassemble the bin control assembly and replace all parts in the reverse order of which they were removed.

12) Pour warm water into the ice storage bin and melt any remaining ice. Clean the ice storage bin liner and the ice storage bin cover using a neutral cleaner. Rinse thoroughly after cleaning. Replace the ice storage bin cover in its correct position.

13) Move the power switch to the "ON" position, then replace the panels in their correct positions. Turn on the power supply, then move the control switch to the "ICE" position to start the automatic icemaking process.

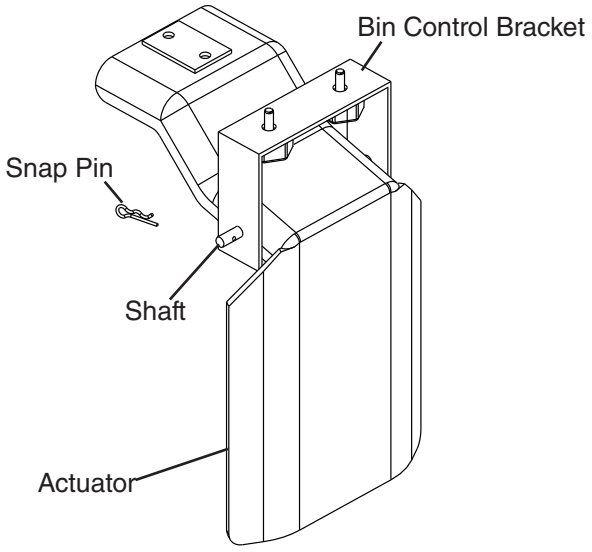


Fig. 10

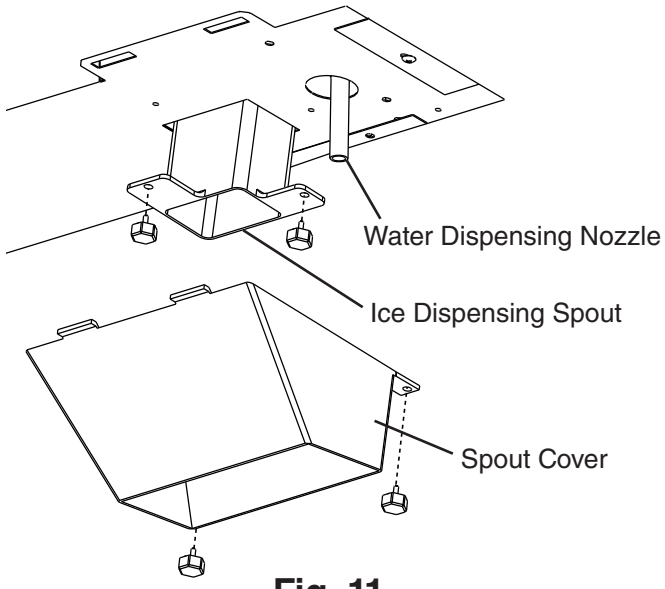


Fig. 11

V. Preparing the Appliance for Periods of Non-Use

⚠ WARNING

Only qualified service technicians should service this appliance.

NOTICE

- During extended periods of non-use, extended absences, or in sub-freezing temperatures, follow the instructions below to reduce the risk of costly water damage.
- When the appliance is not used for two or three days under normal conditions, it is sufficient to move the power switch to the "OFF" position.

1. Remove the ice from the ice storage bin, drain the water system, and remove the water from the icemaker water supply line:

1) Close the icemaker water supply line shut-off valve and open the icemaker water supply line drain valve.

2) Move the control switch to the "OFF" position, pause momentarily, then move to the "DRAIN" position. Allow the water system to drain for 5 minutes.
   Note: a) A momentary pause in the "OFF" position is necessary to de-energize the control board when moving the control switch between "ICE" and "DRAIN." Otherwise there is a delay of several minutes before the new selection takes effect.
   b) If the control switch is left in the "DRAIN" position for 10 minutes or more, a 2-beep alarm sounds every 5 seconds. Move the control switch out of the "DRAIN" position to clear the alarm.

3) Dispense all of the ice from the ice storage bin. Note: Ice dispenses continuously for a maximum of 60 seconds per activation.

4) Attach a compressed air or carbon dioxide supply to the icemaker water supply line drain valve.

5) While engaging the water dispense switch, blow out the water dispense valve using the compressed air or carbon dioxide supply. After blowing out the water dispense valve, leave the compressed air or carbon dioxide supply flowing. Move the control switch to the "OFF" position, pause momentarily, then move to the "ICE" position to open the inlet water valve and briefly blow out the inlet water valve. After blowing out the inlet water valve, move the control switch to the "OFF" position.

6) Close the icemaker water supply line drain valve.

7) Turn off the power supply, then remove the front panel and move the power switch to the "OFF" position.

8) Remove the ice storage bin cover. Clean the ice storage bin liner and the ice storage bin cover using a neutral cleaner. Rinse thoroughly after cleaning. Replace the ice storage bin cover and the front panel in their correct positions.
   Note: If your appliance has a water-cooled condenser, leave the front panel off and continue to the next section.

2. On water-cooled model only, remove the water from the water-cooled condenser:

1) Make sure the control switch and the power switch are in the “OFF” position and that the power supply is off. Remove the top, apron, and left side panels.
2) Close the condenser water supply line shut-off valve. If connected to a closed loop system, also close the condenser return line shut-off valve.
3) Open the condenser water supply line drain valve. If connected to a closed loop system, also open the condenser return line drain valve.
4) Attach a compressed air or carbon dioxide supply to the condenser water supply line drain valve.
5) Open the water regulating valve by using a screwdriver to pry up on the spring retainer underneath the spring. While holding the valve open, blow out the condenser using the compressed air or carbon dioxide supply until water stops coming out.
6) Close the condenser water supply line drain valve. If connected to a closed loop system, also close the condenser return line drain valve.
7) Replace the rear cover in its correct position.

VI. Decommissioning and Disposal

R-290 Class A3 Flammable Refrigerant Used

⚠ DANGER

Risk of Fire or Explosion. Flammable Refrigerant Used.

- Only qualified service technicians should install and service the appliance.
- Follow handling instructions carefully in compliance with national regulations.
- Dispose of properly in accordance with federal or local regulations.
- Do not puncture refrigerant tubing. Risk of fire or explosion due to puncture of refrigerant tubing; follow handling instructions carefully.
- Be sure to follow the full Decommissioning and Disposal information located in the Service Manual for this model. The Service Manual is available at www.hoshizakiamerica.com.

Risque D'Incendie ou D'Explosion. Fluide Frigorigène Inflammable Utilisé.

- Seuls des techniciens de service qualifiés doivent installer et entretenir l'appareil.
- Suivre attentivement les instructions de manutention conformément aux réglements nationaux.
- Mettre au rebut conformément aux conformément aux réglements fédéraux ou locaux.
- Ne pas perforer la conduite de fluide frigorigène. Risque d'incendie ou d'explosion en cas de perforation d'une canalisation de fluide frigorigène; suivez attentivement les instructions de manutention.
- Veiller à respecter l'ensemble des informations relatives à la mise hors service et à la mise au rebut figurant dans le manuel d'entretien de ce modèle. Le manuel d'entretien est disponible à l'adresse suivante: www.hoshizakiamerica.com.

HOSHIZAKI AMERICA, INC.

618 Hwy. 74 South, Peachtree City, GA 30269 USA (P) 770.487.2331 (F) 770.487.3360 hoshizakiamerica.com 1A7729-010