

OUTDOOR ICE MAKER

RF15IR2, RF15IL2

USER/INSTALLATION GUIDE
US CA

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SAFETY INFORMATION AND UNPACKING YOUR APPLIANCE

DCS is committed to building a quality product in an environmentally friendly manner.

Important Safety Instructions

Warnings and safety instructions appearing in this guide are not meant to cover all possible conditions and situations that may occur. Common sense, caution, and care must be exercised when installing, maintaining, or operating this appliance.

Recognize Safety Symbols, Words, and Labels.



WARNING

WARNING - You can be killed or seriously injured if you do not follow these instructions.



CAUTION-Hazards or unsafe practices which could result in personal injury or property / product damage.

NOTE

NOTE-Important information to help assure a problem free installation and operation.



EXCESSIVE WEIGHT HAZARD

Use two or more people to move product. Failure to do so can result in personal injury.

Remove Interior Packaging

Your appliance has been packed for shipment with all parts that could be damaged by movement securely fastened. Remove internal packing materials and any tape holding internal components in place. The owners manual is shipped inside the product in a plastic bag along with the warranty registration card, and other accessory items.

Important

Keep your carton and packaging until your appliance has been thoroughly inspected and found to be in good condition. If there is damage, the packaging will be needed as proof of damage in transit. Afterwards please dispose of all items responsibly.



WARNING - Dispose of the plastic bags which can be a suffocation hazard.

Note to Customer

This merchandise was carefully packed and thoroughly inspected before leaving our plant. Responsibility for its safe delivery was assumed by the retailer upon acceptance of the shipment. Claims for loss or damage sustained in transit must be made to the retailer.

NOTE

DO NOT RETURN DAMAGED MERCHANDISE TO THE MANUFACTURER - FILE THE CLAIM WITH THE RETAILER.

INSTALLING YOUR APPLIANCE



If the appliance was shipped, handled, or stored in other than an upright position for any period of time, allow the appliance to sit upright for a period of at least 24 hours before plugging in. This will assure oil returns to the compressor. Plugging the appliance in immediately may cause damage to internal parts.



WARNING

WARNING - Help Prevent Tragedies

Child entrapment and suffocation are not problems of the past. Junked or abandoned refrigerators are still dangerous - even if they sit out for "just a few hours".

If you are getting rid of your old refrigerator, please follow the instructions below to help prevent accidents.

Before you throw away your old refrigerator or freezer:

- · Take off the doors or remove the drawers.
- Leave the shelves in place so children may not easily climb inside.



Outdoor Installation

Do not install in a location where the ice machine will be exposed to direct sun exposure as this may result in unsatisfactory performance.

Select Location

The proper location will ensure peak performance of your appliance. We recommend a location where the ice machine will be out of direct sunlight and away from heat sources. To ensure your product performs to specifications, the recommended installation location temperature range is from 55 to 90°F (13 to 32°C) for built in ice machines and 55 to 100°F (13 to 38°C) for freestanding ice machines. Ice machines will not perform correctly in ambient temperatures less than 55°F (13°C).



The warranty is voided if product is used in an ambient temperature of 40°F (5°C) or below.

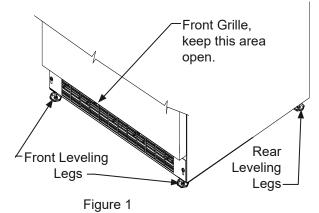
Cabinet Clearance

Ventilation is required from the bottom front of the appliance. Keep this area open and clear of any obstructions. Adjacent cabinets and counter top can be installed around the appliance as long as the front grille remains unobstructed. Overlay door models with articulated hinges are intended for built-in applications only.



Front Grille

Do not obstruct the front grille. The openings within the front grille allow air to flow through the condenser heat exchanger. Restrictions to this air flow will result in increased energy usage, loss of cooling capacity and low ice production. For this reason it is important this area not be obstructed and the grille openings kept clean. DCS does not recommend the use of a custom made grille as air flow may be restricted. (See Figure 1).



Leveling Legs

Adjustable legs at the front and rear corners of the appliance should be set so the unit is firmly positioned on the floor and level from side to side and front to back. The overall height of your DCS appliance may be adjusted higher (by turning the leveling leg out) and lower (by turning the leveling leg in). Cabinet height adjustment dimensions are shown in Table "A".

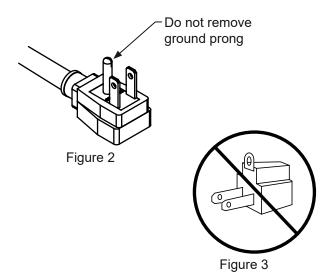
To adjust the leveling legs, place the appliance on a solid surface and protect the floor beneath the legs to avoid scratching the floor. With the assistance of another person, lean the appliance back to access the front leveling legs. Raise or lower the legs to the required dimension by turning the legs. Repeat this process for the rear by tilting the appliance forward using caution. On a level surface check the appliance for levelness and adjust accordingly.

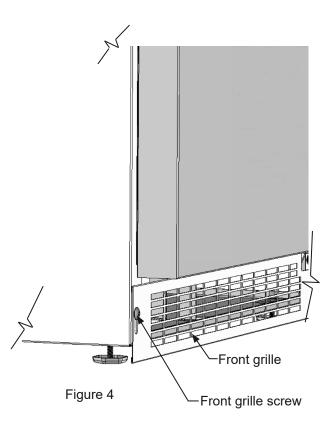
The front grille screws may be loosened to raise and lower the grille to the desired height. When adjustment is complete tighten the two front grille screws. (See Figure 4).

INSTALLING YOUR APPLIANCE

Model	Minimum Height	Maximum Height
RF15I5I	33 3⁄4"	34 3⁄4"

Table A





MARNING

Electrical Shock Hazard

- Do not use an extension cord with this appliance.
 They can be hazardous and can degrade product performance.
- This appliance should not, under any circumstances, be installed to an un-grounded electrical supply.
- Do not remove the grounding prong from the power cord. (See Figure 2).
- Do not use an adapter. (See Figure 3).
- Do not splash or spray water from a hose on the appliance. Doing so may cause an electrical shock, which may result in severe injury or death.

Electrical Connection

A grounded 115 volt, 15 amp dedicated circuit is required.

This product is factory equipped with a power supply cord that has a three-pronged, grounded plug. It must be plugged into a mating grounding type receptacle in accordance with the National Electrical Code and applicable local codes and ordinances (see Figure 5). If the circuit does not have a grounding type receptacle, it is the responsibility and obligation of the customer to provide the proper power supply. The third ground prong should not, under any circumstances, be cut or removed.

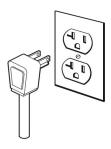


Figure 5

NOTE

Ground Fault Circuit Interrupters (GFCI) are prone to nuisance tripping which will cause the appliance to shut down. GFCI's are generally not used on circuits with power equipment that must run unattended for long periods of time, unless required to meet local building codes and ordinances.

INSTALLING THE DRAIN PLUMBING

A CAUTION

Failure to use an adequate drainage system, will result in surrounding water damage and/or poor ice production.

MARNING

Electrical Shock Hazard

Reasonable care and safe methods should be practiced. Do NOT work with energized electrical equipment in a wet area. Read and follow the installation instructions listed in this manual.

Drain Plumbing

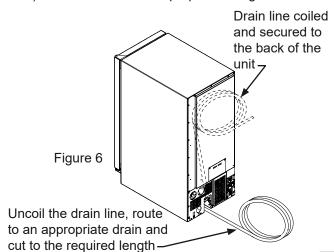
Your ice machine requires drain plumbing. There are 2 variations of ice machines in regards to the installation of the drain plumbing, without a drain pump (gravity drain), and with a drain pump.

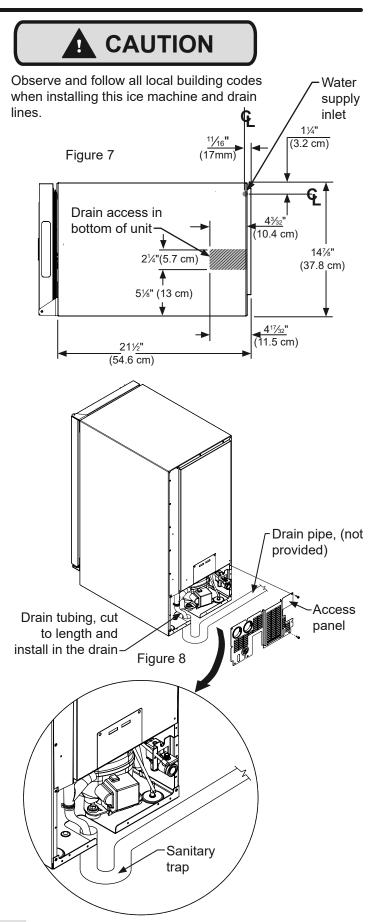
Gravity Drain (no drain pump):

The ice machine is shipped with the drain line installed, coiled and secured to the back of the cabinet as shown in Figure 6. It can be uncoiled, routed to an appropriate drain and cut to length as required. Additionally there is the provision of drain routing through the cut-out in the bottom of the unit, (see the gray area in Figure 7). A drain can be installed in this gray area with the drain line cut to a short length and positioned into the drain as shown in Figure 8, or if the ice machine is to be built-in, the drain tube could be routed through a hole in the floor in this gray area to a drain below.

A CAUTION

The gravity drain line must be routed no higher than 6" (15.2 cm) off the floor to assure proper drainage.





INSTALLING THE DRAIN PLUMBING

Optional Drain Pump.

An optional drain pump is available if you have purchased an ice machine without one and do not have access to a gravity drain. Installation instructions are provided with the optional drain pump.

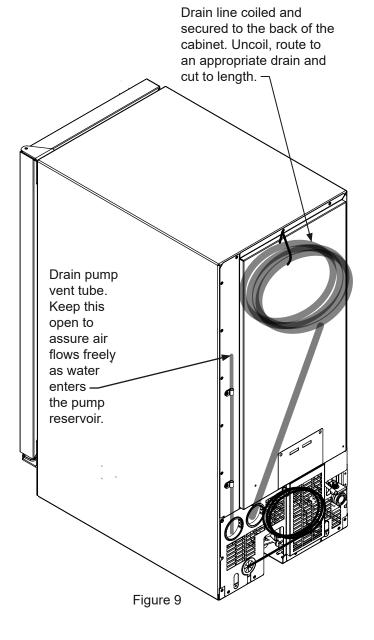


This drain pump is designed to be installed in DCS ice machines only and approved for use with water only.

MARNING

Electrical Shock Hazard

Risk of electrical shock or personal injury could occur due to moving components, if the machine compartment access cover is removed before unplugging the ice machine power cord.



INSTALLING THE WATER SUPPLY

Water Supply

A CAUTION

Observe and follow all local building codes when installing this appliance.

This ice machine must be connected to a potable cold water supply line. delivering water pressure between a minimum of 20 psi and a maximum of 120 psi.

Use %" copper tubing for your water supply which is available at any local hardware or plumbing supply store. Route the %" copper tubing to suit your installation being sure not to kink the tubing. Purchase enough copper tubing length to allow a coil to be formed behind the unit for a "service loop" which will allow the appliance to be pulled out from the installation for servicing or cleaning. (See Figure 10). Connect the copper tubing to the "top side" of a cold water pipe to prevent the ice-maker from plugging with sediment.

A shutoff valve is recommended on the water supply line to ease servicing the appliance. **NOTE: A SELF-PIERCING TYPE VALVE IS NOT RECOMMENDED** as they are prone to clogging with sediment which will create pressure drop reducing the water supply to the unit.

Connect the copper tubing water supply to the water valve inlet with a 1/4" compression nut fitting.

IMPORTANT: Secure the water supply line to the back of the cabinet with the screw and strain relief clamp provided in the corner of the back panel. (See Figure 10).

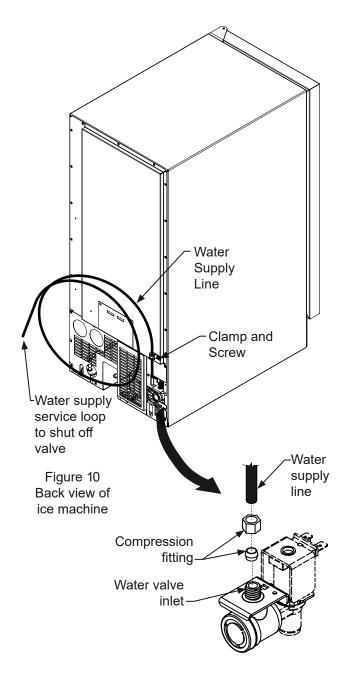
Make certain all connections are watertight after installation. Form the tubing so that it will not vibrate against the cabinet body or kink when your appliance is moved in and out of position.

This ice machine is designed to make clear ice from the majority of water sources on a daily basis. If your results are unsatisfactory, your water may need to be filtered or treated. A water specialist can recommend proper water treatment.



To prevent water leaks:

- The water line fitting is to be used with copper tubing only. Do not use with plastic tubing.
- Do not use any thread sealers on this water line fitting.



NOTE

Reverse osmosis, (RO), water, softened water, and deionized water are not recommended as they can adversely affect the quality and quantity of the ice.

INSTALLING THE WATER SUPPLY

Procedure for Testing Drain System (both gravity and drain pump models)

Drain pump models have a safety feature that will interrupt power to the unit if a high-limit condition occurs to prevent flooding. This safety feature can be initiated by a restriction in the drain system and will continue until high-limit condition is corrected, at which time power will be restored to the unit. Power interruption can be detected when no icons are visible in the display area of the user interface (Figure 11). Once power is returned, a startup chime will sound followed by a self-test, and "OFF" should be visible in the display area.



Figure 11: User interface display during power interruption.

Once the drain line is plumbed, perform the following:

- 1. Plug the ice machine into 115v power supply.
- 2. Place unit in the final installation location.
- 3. Turn the unit off via the user interface (display will indicate "OFF"). The drain pump will still be operational during off mode if the unit has one.
- 4. Slowly pour 3-qts of water into the ice storage bin. All water should drain completely.
- 5. If water drains fully and without power interruption, the drain system has been successfully tested and further installation of the ice machine can be continued.
- 6. If the water does not drain or a power interrupt occurs, check the following:
 - a. There are no kinks or restrictions in the drain line. (Note: Drain line needs to be cut to the required length and any excess tubing should be removed to prevent possible restrictions).
 - b. Drain line was run according to the guidelines for maxiumum allowable rise and run as shown in the table below:

Rise Above Floor Level	8 ft.	9 ft.	10 ft.
Maxium Allowable Drain Line Length	20 ft.	15 ft.	10 ft.

- c. Your drain line is plumbed into an open drain (Figure 12).
- d. The vent tube on the back of the unit is open (Figure 13).

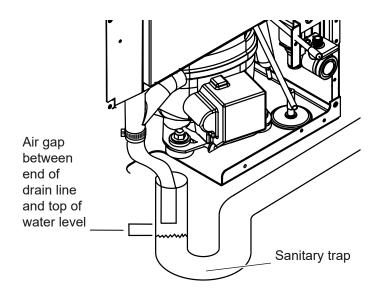


Figure 12: Example of an open drain.

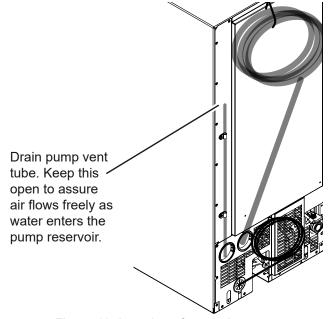


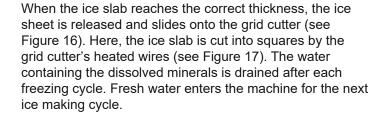
Figure 13: Location of vent tube.

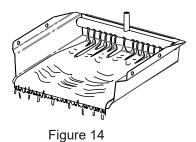
After checking the above requirements, repeat step 4 and verify the water drains completely without power interruption. If problems persist call a qualified service technician and/or plumber.

OPERATION OF THE ICE MACHINE

The Ice Making Process

Your ice machine is unique in how it forms ice with fractional freezing to form a slab of ice that is clear and has less dissolved solids than the water it is produced from. This is accomplished by running water over the cold evaporator plate (see Figure 14) which gradually freezes the water to produce the ice slab. Pure water freezes first, leaving the dissolved solids in the residual reservoir water to provide clear ice.





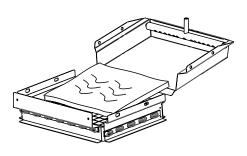
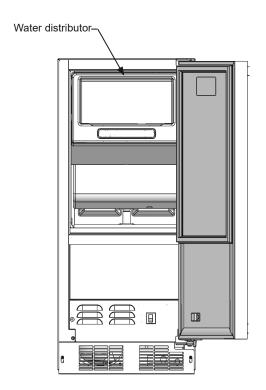


Figure 16



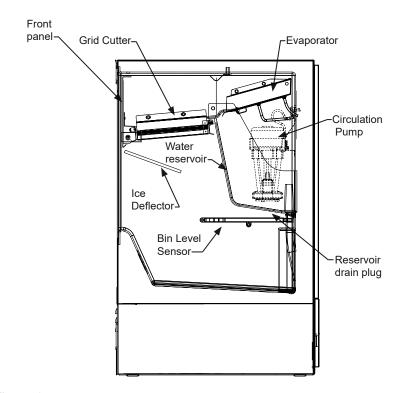


Figure 15

OPERATION OF ICE MACHINE

The ice machine will keep producing ice until the ice machine's bin is full and will restart automatically when ice needs to be replenished in the bin. The ice bin is not refrigerated, and some melting will occur by design to preserve the ice quality and clarity. Allow your ice machine to run for 24-48 hours to accumulate ice in the ice machine's bin.

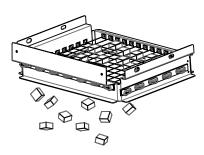


Figure 17

The bin level sensor is located in the ice bin, it senses when the ice supply is low or full and starts or stops the ice making process accordingly.

NOTE

If the water supply is turned off to the ice machine be sure to set the electronic control to the "OFF" position or remove power to the unit.

Ice Production

In normal mode the ice machine will produce up to 39 pounds (17.7 kg) of clear ice in a 24-hour period when installed in a 72°F ambient with a 55°F water supply. In "ECO" mode (see page 16) the ice machine will produce up to 29 pounds (13.2 kg) of clear ice in the 24 hour period.

NOTE

"Initial" ice production and ice accumulated in the storage bin will vary significantly. This is normal. During the first 24-hours of operation the unit will produce up to 39 lbs of ice at the above ambient and water temperature conditions, but when starting with an empty ice storage bin, the storage bin may only accumulate up to 18 lbs of ice. By design, the ice storage bin is maintained at a temperature slightly above freezing to allow the stored ice to slowly melt, to preserve the ice quality and clarity and assure a constant supply of fresh ice. As ice is accumulated in the bin, the ice production rate will overcome the ice melt and the storage bin will fill to capacity.

New Sounds

The ice machine will make sounds that are different than your household refrigerator. Because these sounds are new to you they may be of a concern but are most likely normal. The ice production process will make noises that are not typical in a refrigeration product, ice falling onto hard surfaces, water cascading across the evaporator, and valves opening and closing. Following are some of the sounds that you may hear:

A buzzing sound will be heard when the water valve opens to fill the water reservoir.

A rattling noise which could be water flowing through the water line.

A splashing sound when water is flowing over the evaporator plate and into the water reservoir.

A "thud" when the ice slab is released from the evaporator plate and slides onto the grid cutter.

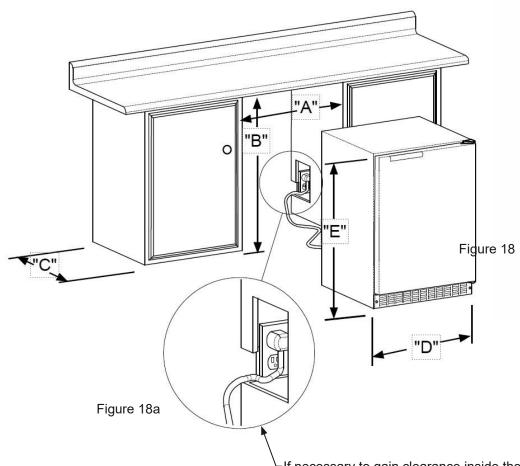
"Clicks" when the cubes fall into the ice storage bin.

A gurgling sound which is refrigerant flowing in the ice machine.

An air noise from the condenser fan.

PRODUCT DIMENSIONS

	ROUGH	-IN OPENING DIMEN	SIONS		CAE	SINET DIME	NSIONS		
MODEL	"A"	"B"	"C"	"D"	"E"	"F"	"G"	"H"	"J"
RF15I	15"	34" to 35"	24"	14 1/8"	33 ¾" to 34 ¾"	23 %"	27 ⁷ / ₃₂ "	37 3/8"	16 ²³ / ₃₂ "



DVFRIW

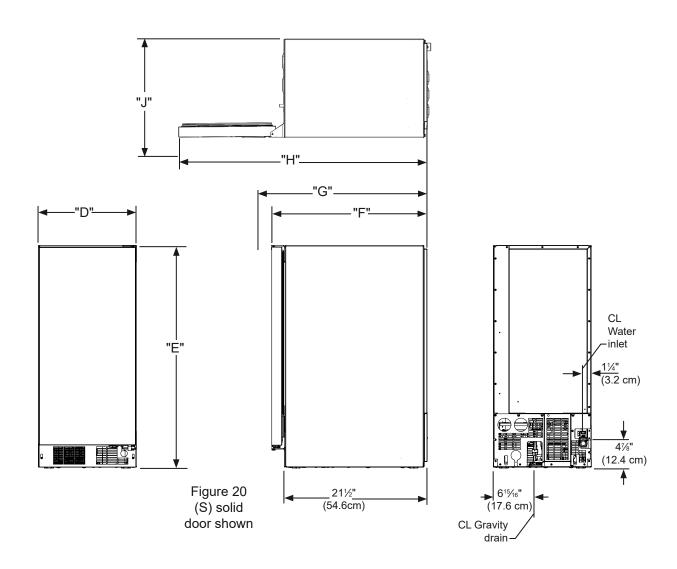
Figure 19

If necessary to gain clearance inside the roughin opening a hole can be cut through the adjacent cabinet and the power cord routed through this hole to a power outlet. Another way to increase the available opening depth is to recess the power outlet into the rear wall to gain the thickness of the power cord plug. Not all recessed outlet boxes will work for this application as they are too narrow, but a recessed outlet box equivalent to Arlington #DVFR1W is recommended for this application, (see Figure 19).

PRODUCT DIMENSIONS

	PRODUCT DATA		
MODEL	ELECTRICAL REQUIREMENTS #	PRODUCT WEIGHT	
RF15I	115V/60Hz/15A	105 lbs (47.7 kg)	

A grounded 15 amp dedicated circuit is required. Follow all local building codes when installing electrical and appliance.



^{**} Minimum rough-in opening required is to be larger than the adjusted height of the cabinet.

USING YOUR ELECTRONIC CONTROL



Figure 21 User interface display

Display icons:



"ON/OFF" icon: used for turning the appliance on and off.



"MENU" icon: used to access optional functions in the user interface.



"Clock" icon: used to enter the Delay start/ vacation mode.



"LOCK" icon: used to lock out functions in the user interface.

Display area text:

ICE

Signifies the appliance is on and producing

ECO

Signifies the appliance is in economical ice production mode.

OFF

Signifies the appliance is off

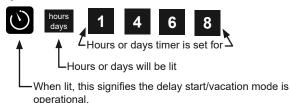
DOOR

Signifies a door ajar alarm condition.

CLEAN

Cleaning is recommended or the appliance is in the clean mode.

Delay start/Vacation mode:



NOTE

The control display is covered with a clear plastic protective film. This film may be removed by carefully lifting at a corner.

Starting your clear ice machine:

ICE

Plug the ice machine into a 115 volt wall outlet, (see page 5 for electrical information). Your appliance is shipped from the factory in the "ICE" mode and will begin start-up of ice production after the start-up routine.

Upon applying power to the unit, or after a power interruption, the Ice machine will perform a self-test, followed by a harvest cycle to clear any in-process ice production. This start-up routine, ("after power is applied to the unit"), takes approximately 13 minutes to complete before an ice production cycle starts.

If the appliance does not start, confirm the wall outlet has power, and the control is in the "ICE" mode, (see Options section below). Do not start the ice machine in "ECO" mode. "ECO" mode should only be used after there is a full bin of ice.

USING YOUR ELECTRONIC CONTROL

Turning your ice machine On and Off:

If your appliance is on, "ICE" will be displayed. To turn the appliance off, push and hold the "ON/OFF" icon for 3-seconds. The display will show "OFF".



ICE

NOTE

When turned off, the ice machine will complete its current ice production cycle then shut off.



The drain pump (if equipped) and the interior light will still be functioning during the OFF mode. To turn the appliance back on, press and hold the "ON/OFF" icon for 3-seconds, the display will show "ICE".



WARNING

Turning the ice machine "OFF" will only terminate the ice production, it does not remove power from the appliance. Always unplug the power cord from the wall outlet before servicing the unit.

Control Lock:

The user interface can be locked to avoid unintentional changes from things like cleaning. To lock the appliance, push and hold the "LOCK" icon for 5-seconds. The "LOCK" icon will flash 3 times, then change to steady back-lit. To unlock the user interface, press and hold the "LOCK" icon for 5-seconds, and the back-light will turn off.



The "LOCK" icon is the only active key in this mode. If other icons are pressed while in the lock mode the "LOCK" icon will flash 3 times, and an audible tone will sound, to remind the user the appliance is in the lock mode.

Door ajar alarm:

If the door is open, or not closed properly for 5 minutes the "DOOR" indicator will illuminate and flash and an audible tone will sound. The audible alarm can be muted by pressing the "Lock" keypad. This alarm condition can be reset by closing the door or momentarily pressing the "ON/OFF" icon, (i.e.-if you are cleaning the storage compartment, etc.). The alarm will recur in 5 minutes if the alarm condition persists.

Delay start/Vacation mode:

Your ice machine is equipped with a delay start function. This feature can be used to temporarily shut the appliance off for 1, 4, 6, or 8 hours or days. Upon completion of the selected delay period, the appliance will resume operation. This is ideal for temporarily stopping ice machine noises or to save water and electricity if you are away from home but want fresh ice upon your return.

To enter the delay start mode, press the "CLOCK" icon while the appliance is in "ICE" mode. This will delay the next harvest by the time displayed. Each additional press of the "CLOCK" icon will add time, from 1, 4, 6, or 8 hours, to 1, 4, 6, or 8 days. The next press after 8 days will leave delay set mode. After the desired time has been

selected, press the "ON/OFF" icon for 2 seconds to accept, your unit will shut off and a clock icon and your selected time will be displayed. When the selected time has elapsed, normal ice production will resume.





To cancel the delayed start, press and hold the "ON/OFF" icon until the appliance enters OFF, then press and hold the "ON/OFF" icon again until the appliance enters "ICE" mode.









USING YOUR ELECTRONIC CONTROL

Error codes:

The ice machine is monitored continuously. Any OPEN or SHORTED circuit condition with a temperature sensor or miscommunications between the control and user interface will initiate an ERROR CODE as listed below:

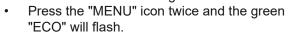
Error Codes				
Error	Displayed Code	Error Description	Action to Take	
Bin Sensor error	"OFF" will flash continuously in 1 second intervals in the display. No audible alarm will sound.	Failed temperature sensor. Machine operation will immediately enter an OFF state.	Call service to have the temperature sensor replaced.	
System Sensor error	"ICE" will flash continuously in the display. No audible alarm will sound.	Failed condenser temperature sensor. Machine operation will continue but ice production cycle will not adapt to varying ambient conditions, so ice quality may vary.	Call service to have the temperature sensor replaced.	
Communication error	Continual flashing of all indicators on the display.	Loss of communication between the main board and the user interface.	Call service to have a diagnostic check.	

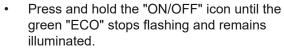
Options menu:

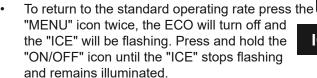


Normal and ECO mode:

Your ice machine comes with an optional "ECO" mode. This new feature allows you to tailor ice production to a conservative rate, saving approximately 25% energy and 30% water from routine operation. While in this mode ice production will slow and the appliance will use less water and electricity. "ECO" mode should only be initiated after there is a full bin of ice. To enter "ECO" mode do the following:













CLEANING YOUR ICE MACHINE

Clean reminder:

A "CLEAN" reminder will occur every 6 months to remind you that it may be time to clean your appliance. Over time mineral build up on the cold evaporator plate can occur which can adversely affect the quality of your ice. This build-up is dependent on your water source and usage. Normal ice production will continue while the "CLEAN" reminder is displayed. You may clear the "CLEAN" reminder at any time by momentarily pressing the "ON/OFF" icon. When reset, the "CLEAN" reminder will reset and not occur for another 6 months. If you choose to clean the appliance at this time, see the options menu section below.

Clean mode:

To ensure maximum performance and ice quality, it is recommended to clean your ice machine once every six months. This simple cleaning routine will also ensure water and energy use continues at optimum efficiency.

NOTE

Homes with poor water quality or high clear ice usage might require more frequent cleaning.

To clean your ice machine you will need to purchase a "nickel safe" ice maker cleaner. Cleaner can be obtained by contacting DCS customer service at 888.936.7872.

A CAUTION

Use only DCS-approved ice machine cleaner and follow all label warnings and directions. Incorrect chemical usage, and any damage that may result, is not covered by warranty.

Once you have your cleaner:

Turn the ice machine off by pressing and holding the "ON/OFF" icon for 3 seconds. "OFF" will be displayed on the control.

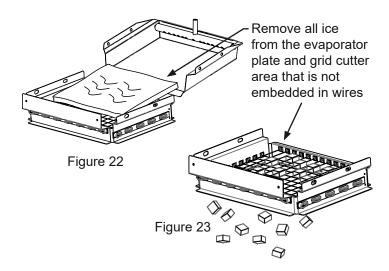
Remove all ice from the ice bin (see Figure 25).

Drain the water from the water reservoir by removing the black plug from the bottom of the fresh water reservoir (see Figure 26). After the water is drained, replace the plug in the bottom of the reservoir.

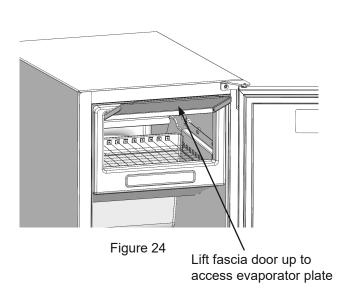
Allow all of the ice to fall from the evaporator plate and remove any ice from the grid cutter. If there is ice embedded in the grid cutter wires, wait for it to melt and fall out. **Do not try to remove ice that is embedded in the grid cutter wires as that may break the wires.** (See Figures 22 and 23).

A CAUTION

Forcing ice through the grid cutter will break the grid cutter wires.



CLEANING YOUR ICE MACHINE



Refer to your cleaning solution instructions to determine the proper amount of cleaning solution to add based on 2 quarts (1.9 liters) of water. Lift fascia door up to access evaporator plate. (See Figure 27). Pour the cleaning solution slowly on the evaporator plate so it lows down into the fresh water reservoir. (See Figure 28).

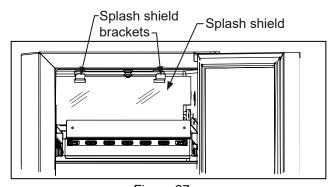


Figure 27

Remove all of the ice from the ice bin

Figure 26

Figure 25

Remove the black reservoir drain plug from the bottom of the reservoir.—7

Figure 26b

Replace the splash shield if removed. Turn the ice machine back on by pressing and holding the "ON/OFF" icon for 3 seconds. The display will indicate "ICE" mode. Press and hold the "MENU" icon until a flashing "CLEAN" is displayed. Press the "ON/OFF" icon until "CLEAN" stops flashing. Your ice machine will now enter the clean cycle.







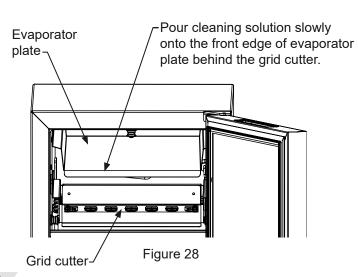
The clean and rinse cycle will take about 49 minutes.



After the clean cycle is complete the ice machine will return to the "OFF" position.



After the cleaning cycle is completed, verify that all build-up has been removed. If not repeat the clean cycle procedure.



CARE AND CLEANING AND ENERGY SAVING TIPS OBTAINING SERVICE

Front Grille

Be sure that nothing obstructs the required air flow openings in front of the cabinet. At least once or twice a year, brush or vacuum lint and dirt from the front grille area (see page 4).



SHOCK HAZARD: Disconnect electrical power from the appliance before cleaning with soap and water.

Cabinet

The painted cabinet can be washed with either a mild soap and water and thoroughly rinsed with clear water. NEVER use abrasive scouring cleaners.

Cleaning

Routine cleaning of the stainless steel surfaces will serve to greatly extend the life of your product by removing contaminants. This is especially important in coastal areas which can expose the stainless to sever contaminants such as halide salts (sodium chloride).

It is strongly recommended to periodically inspect and thoroughly clean crevices, weld points, under gaskets, rivets, bolt heads, and any locations where small amounts of liquid could collect, become stagnant, and concentrate contaminants. Additionally, any mounting hardware that is showing signs of corrosion should be replaced.

Interior

Wash interior compartment with mild soap and water. Do NOT use an abrasive cleaner, solvent, polish cleaner, undiluted detergent or chlorine based cleaners.

Care of Appliance

- 1. Avoid leaning on the door, you may bend the door hinges or tip the appliance.
- Exercise caution when sweeping, vacuuming or mopping near the front of the appliance. Damage to the grille can occur.
- Periodically clean the interior of the appliance as needed
- Periodically check and/or clean the front grille as needed.

In the Event of a Power Failure

If a power failure occurs, try to correct it as soon as possible. Minimize the number of door openings while the power is off so as not to adversely affect the appliance's temperature.

Light assembly replacement

All models use LED lamps to illuminate the interior of the appliance. This component is very reliable, but should one fail, contact a qualified service technician for replacement of the LED.

Energy Saving Tips

The following suggestions will minimize the cost of operating your ice machine appliance.

- Do not install your appliance next to a hot appliance, (stove, dishwasher, etc.). heating air duct, or other heat sources.
- 2. Install product out of direct sunlight.
- Assure the front grille vents at front of the ice machine beneath the door are not obstructed and kept clean to allow ventilation for the refrigeration system to expel heat.
- 4. Plug your appliance into a dedicated power circuit. (Not shared with other appliances).
- 5. Minimize door openings and duration of door openings.
- Set the control to the "off" position if accessing the interior to spot clean or remove large quantities of ice requires the door to be open for an extended period of time.
- 7. Use ECO mode if maximum ice production quantities are not required.
- 8. Use the delay start function if the ice machine will not be used for long periods of time.

If Service is Required:

- If the product is within the first year warranty period please contact your dealer or call DCS Customer Service at 888.936.7872 for directions on how to obtain warranty coverage in your area.
- If the product is outside the first year warranty period, DCS Customer Service can provide recommendations of service centers in your area.
- In all correspondence regarding service, be sure to give the service number, serial number, and proof of purchase.
- Try to have information or description of nature of the problem, how long the appliance has been running, the room temperature, and any additional information that may be helpful in quickly solving the problem.
- Table "C" is provided for recording pertinent information regarding your product for future reference.

For Your Records			
Date of Purchase			
Dealer's name			
Dealer's Address			
Dealer's City			
Dealer's State			
Dealer's Zip Code			
Appliance Serial Number			
Appliance Service Number			
Date Warranty Card Sent (Must be within 10 days of purchase).			

Table C

CARE AND CLEANING

Canceling clean mode:

To exit clean mode press and hold the "ON/OFF" icon until "OFF" is displayed. Wait 3 minutes for clean mode to complete it's cancel routine before turning unit back on by pressing and holding the "ON/OFF" icon. If you turn the unit back on before the 3 minutes has elapsed, the display will show "CLEAN" and the unit will shut itself off upon completion of the 3 minute clean cancel routine.



WARNING

If you cancel clean mode after adding ice maker cleaner, you must re-start cleaning and allow clean cycle to complete to remove the cleaning solution before resuming ice production.

Optional: After the cleaning cycle has been completed, you may wash the interior with a mild detergent / dish soap or a solution of two tablespoons of baking soda and one quart of water. Rinse with clean water.

Replace the grid cutter cover.

Do not use bleach based cleaners or any abrasive cleaning products. Chlorine based cleaners will attack the stainless steel, making it susceptible to corrosion.

Your ice machine is now ready to restart. Press and hold the "ON/ OFF" icon for 3 seconds until "ICE is displayed.



ICE

After cleaning it is recommended you discard the ice produced after 3 hours of ice production.

TROUBLESHOOTING THE ICE MACHINE

Before You Call for Service

If the appliance appears to be malfunctioning, read through this manual first. If the problem persists, check the troubleshooting guide below. Locate the problem in the guide and refer to the cause and its remedy before calling for service. The problem may be something very simple that can be solved without a service call. However, it may be required to contact your dealer or a qualified service technician.

Troubleshooting guide:

Ice Machine Operation Ice machine does not operate

Is the ice machine's power cord plugged in? Plug the power cord into a grounded 3 prong outlet.

Is the electronic control showing the "ICE" position? Check the control to be sure it is in the "ICE" position.

Is a fuse blown or a circuit breaker been tripped?Replace a blown fuse or reset a tripped circuit breaker.

Is the temperature of the room cooler than it normally is? The minimum room temperature is 55°F (13°C). The bin thermistor may be sensing the room temperature and shut off before the bin is full of ice. If the room temperature remains low the ice machine may not restart.

Is there a drain pump in the ice machine? The drain pump is designed to temporarily shut the unit off when large quantities of water create a high-limit condition. Wait a few minutes as the drain pump will continue to operate to dispose of the excess water. If there is still water in the ice bin check the drain pump vent line and drain line for obstructions or kinking.

The ice machine is noisy

Many sounds of an ice machine are different than your household refrigerator. This subject is discussed on page 11, but check the following:

Do you hear water being circulated in the ice machine? This is a normal sound as water is added once every ice making cycle.

Is there a "whoosing" sound? Make sure water is getting to the ice machine. Also check to make sure the drain plug is fully seated in the water reservoir.

Is there an ice slab caught between the evaporator plate and the grid cutter? First check to see if the ice machine is level. If the ice machine is level run a cleaning cycle.

A '

WARNING

Electrocution Hazard

- Never attempt to repair or perform maintenance on the appliance until the main electrical power has been disconnected. Turning the appliance control "OFF" does not remove electrical power from the unit's wiring.
- · Replace all parts and panels before operating.

Ice Production

<u>Little or no ice production from the ice machine</u>
Is the electronic control set to the "ICE" position?
Check the control to be sure it is in the "ICE" position.

Is water getting to the ice machine? Make sure nothing is restricting the water supply such as a closed water valve or a blown fuse or tripped circuit breaker, or a kinked supply line, or low water pressure.

Has the ice machine just been started? A typical ice production cycle can take up to 1½ hours. Initial start up cycles can take longer. Check the ice machine after 24 hours for ice accumulation in the bin.

Is the reservoir drain plug in place? Check that the reservoir drain plug is properly seated.

Is the water distributor tube restricted? Run a cleaning cycle to clean the ice machine. Also check any filters to make sure they are not restricted.

Is the condenser fan air flow restricted? Make sure the grille in the front of the ice machine is open for proper air circulation.

Is the room and/or water temperature to warm? Move the ice machine to an area where the ambient temperature is below 90°F (32°C) for built-in ice machines or below 100°F (38°C) for freestanding ice machines. The ice machine should not be placed next to a heat source such as an oven. Check the cold water connection.

Is there scale build up in the ice machine? If there is scale build up on the evaporator, the ice machine needs to be cleaned. See "Cleaning the Ice machine".

TROUBLESHOOTING THE ICE MACHINE

Ice Quality

Odor, grey color, or off taste in the ice

Is there mineral scale build up on the evaporator plate? The ice machine needs cleaning. See "Cleaning the Ice Machine".

Is there a high mineral content in the water? The water may need to be filtered.

Are food items being stored in the ice bin? Remove food from the ice bin.

Unpleasant Odors may require the use of a charcoal filter on the water supply line.

Clumps of ice

Are there clumps of ice in the bin? If the ice isn't used on a regular basis it will melt and form into clumps. Break up the ice clumps with the ice scoop.

Ice cubes are too big or too small

Is there low ice consumption? Ice is slowly melting in the ice bin which will affect the size of the cubes. This is normal. When the ice bin needs to be replenished, cubes will return to the regular size.

Is the ice slab releasing? Clean the evaporator. See "Cleaning the Ice Machine".

Is the distributor tube restricted? Check the water line to the ice machine to make sure there are no restrictions or kinks in the line. Check all filters to make sure they are not restricted. Check that the water flows evenly out of the distributor tube, if not, clean the ice machine. See "Cleaning the Ice Machine".

Plumbing Problems

Is the drain hose aligned over the drain? Move the ice machine to align the drain.

Is the ice machine draining properly? Check that there are no kinks or restrictions in the drain lines; this can cause water to back up in the ice bin. Check that foreign material is not blocking the ice bin drain located at the right rear corner of the ice bin. Check the drain pump discharge and vent line or any restrictions or kinks. Check that the drain pump is level.

NOTE

If there are plumbing issues outside of the ice machine, they cannot be repaired by the service technician. A qualified plumber will have to be called.

Troubleshooting the Drain Pump

NOTE

If the **drain pump reservoir** (not the ice machine bin) reaches overfill condition, the power to the ice machine will be shut off.

If the ice machine is not working, check the following:

- Make sure there is power at the receptacle.
- Make sure the ice machine is turned on.
- · Make sure the ice bin is not full.

Then check the drain pump:

The pump does not run:

- Make sure the pump is plugged in and there is power to the receptacle.
- Check the inlet to the drain pump for debris and clean as needed. Remove clamps and inlet tube from drain pump to check for and remove debris.
- Make certain the vent line is free of kinks/sharp bends or restrictions.
- Make certain there is enough water to activate the drain pump. It will take at least one (1) quart (.95 liters) of water to activate the drain pump.

The pump runs, but no water is pumped out:

- Check that the vent is clear and free of restrictions.
- Check the discharge line to make certain there are no restrictions.
- Make sure that the discharge tubing has not exceeded the maximum lift of eight (8) feet (2.44 meters) and the horizontal run is not greater than twenty (20) feet (6.1 meters).

The pump runs and then quickly turns off repeatedly:

- Check to make certain the drain pump is level.
- Check that the vent is clear and free of restrictions.

The ice machine is running but not producing ice:

 Check to make sure water is not backing up in the ice bin.

PREPARING THE ICE MACHINE FOR STORAGE

If the ice machine is moved, not used for an extended period of time, or will be in an area that will be near freezing temperatures, it is necessary to remove any remaining water in the ice-making system.



This ice machine must have all water drained and removed to prevent ice machine damage as well as possible water damage to the surrounding area in freezing conditions. These damages are not covered under warranty.

A CAUTION

Do not use any type of anti-freeze or other solution as a substitution for properly draining the ice machine.

Clean the Ice Machine

Cleaning the ice machine will help prevent mold and mildew growth as well as sanitize the ice machine for storage or when it is put back into service. See page 17 for instructions for cleaning the ice machine.



Electrocution Hazard

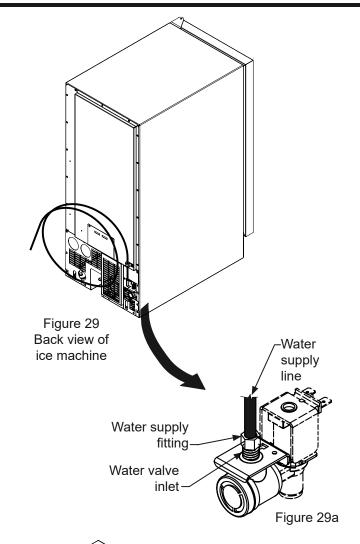
Risk of electrical shock or personal injury could occur due to moving components, if machine compartment access cover is removed before unplugging the ice machine.

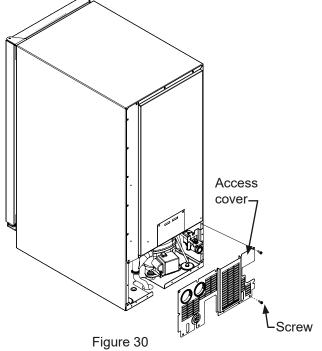


Winterization: If the unit will be exposed to temperatures of 40°F (5°C) or less, these steps must be followed.

Draining and Removing Water from the Ice-Making System with a Gravity Drain.

- 1. Turn off the water supply to the ice machine.
- 2. Disconnect the water supply fitting at the inlet of the water valve. (See Figure 29a).
- Change the electronic control to the "CLEAN" position for approximately one (1) minute. This will energize and open the water valve and remove most of the water from the water valve and the water valve's outlet water line to the reservoir.
- 4. Change the electronic control to the "OFF" position. This will energize and open the drain valve to drain the reservoir and the ice machine drain system.
- 5. Unplug the ice machine from the electrical outlet.
- 6. Remove the access cover from the rear of the ice machine. (See Figure 30).





PREPARING THE ICE MACHINE FOR STORAGE

7. Disconnect the water valve's outlet water line to the reservoir and drain the remaining water left in the water line trap area. (See Figure 31 and 31a).

- 8. Reconnect the water valve outlet water line. (See Figure 31 and 31a).
- 9. Reinstall the ice machine's access cover.
- 10. Clean and dry the ice machine's storage bin.
- 11. Prop the door open for air circulation to prevent mold and mildew.
- Leave the water supply line disconnected or reconnect the supply line and leave it shut off. Do NOT turn the water on and allow water to enter back into the water valve.

Draining Water for Factory Installed Drain Pump Applications

Follow steps 1 through 12 for the gravity drain then do the following:

13. Install the winterization plug in the water drain hole inside the ice bin. (See Figure 32).

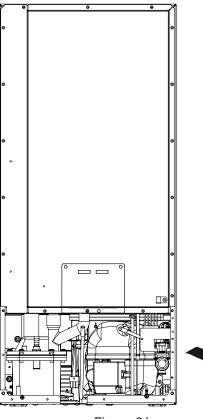
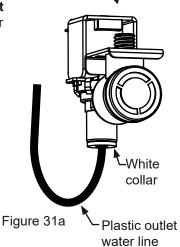


Figure 31

To disconnect the water outlet line: Push up on the white collar and pull the plastic water line from the bottom of the water valve.

To reconnect the water outlet line: Simply insert the plastic tubing into the white collar and push until it stops (about ½", 12 mm, of water line will enter the valve).



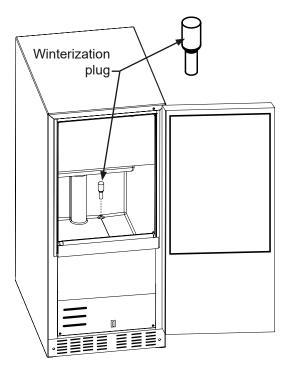
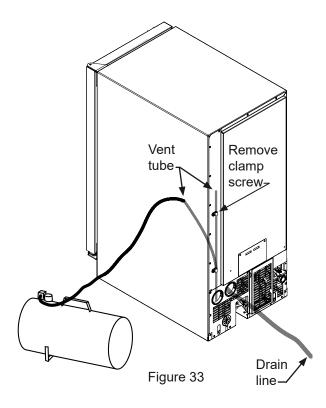


Figure 32

PREPARING THE ICE MACHINE FOR STORAGE

- 14. Remove the top clamp from the vent tube, for easier access for the air hose.
- 15. Apply air pressure (approximately 10 psi) to the end of the vent tube which will purge the remainder of the water from the drain pump and the drain line. (See Figure 33).
- 16. Reinstall the vent tube and clamp to the back of the ice machine and remove the winterization plug from the ice bin and save it for future use.

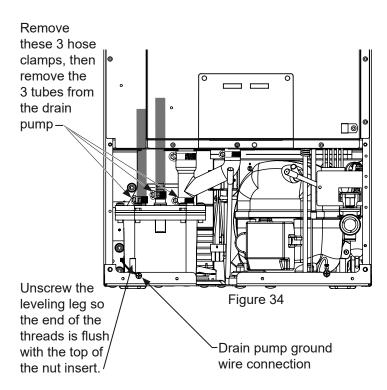


To Restart the Ice Machine

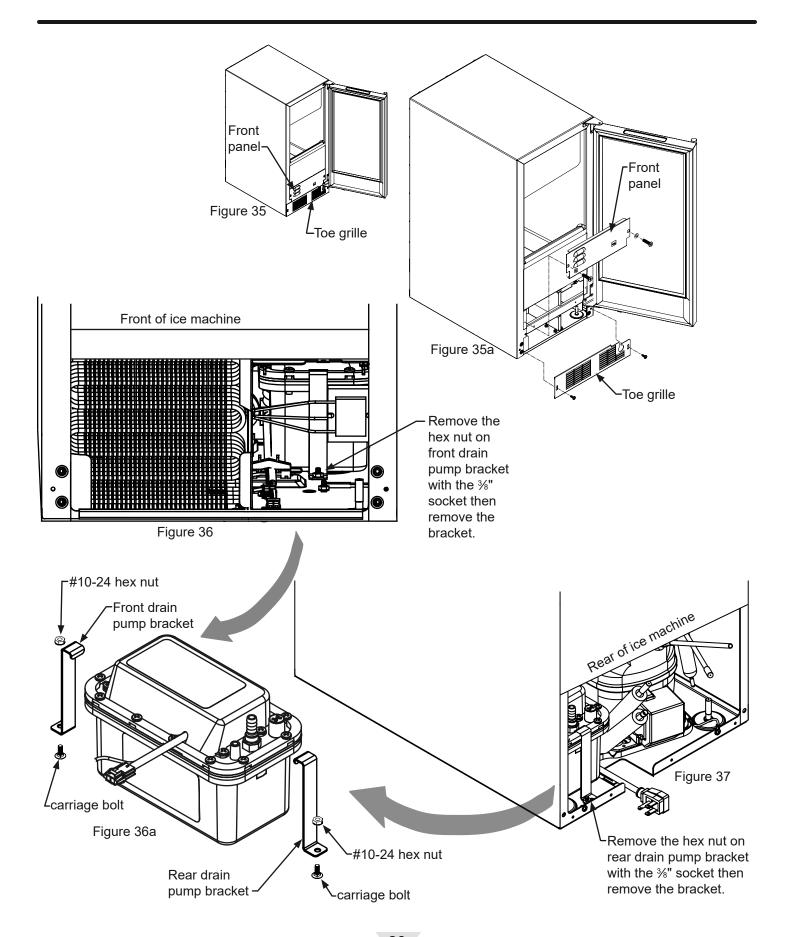
- 1. Reconnect or turn on the water supply line.
- 2. Reconnect drain tubing if removed.
- 3. Plug in the power cord to a wall outlet and turn the ice machine on, (refer to page 16 for turning the ice machine on and off).
- Check the water inlet, drain lines, and fittings for any water leaks.
- Check drain pump (if equipped) operation by pouring approximately two (2) quarts of water into the ice storage bin. The drain pump should activate and discharge water (refer to Drain Pump on page 7). Check for water leaks at all hose connections.

Drain Pump Removal Instructions:

- 1. Unplug the ice machine from the electrical supply and remove the rear access cover from the ice machine.
- 2. Remove the front panel and the toe grille from the front of the ice machine. See Figures 35 and 35a.
- 3. Remove the front and rear drain pump brackets. See Figures 36, 36a and 37.
- 4. Unscrew the 3 hose clamps and remove the 3 hoses from the front of the drain pump. (See Figure 34).
- 5. Unscrew the leveling leg in the back corner until the end of the threaded portion is flush with the threaded nut insert in the base. (see Figure 34).

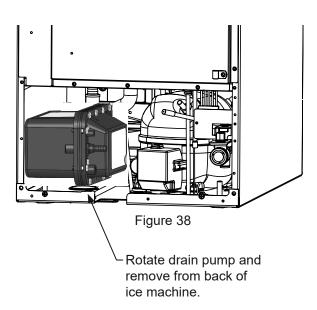


DRAIN PUMP REMOVAL INSTRUCTIONS



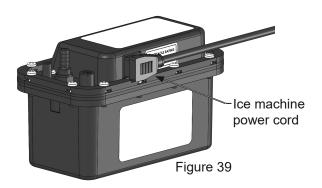
DRAIN PUMP REMOVAL INSTRUCTIONS

- Rotate the drain pump and remove from the ice machine, (See Figure 38). It may be necessary to disconnect the ground wire connection in the back flange of the cabinet. (See Figure 34).
- 7. Disconnect the ice machine power cord from the drain pump (See Figure 39).
- 8. Drain the water in the drain pump's reservoir by turning the pump upside down and allowing water to drain through the pump's inlet and vent tube fittings.
- 9. Installation of drain pump is reverse of this procedure.



Additional issues to be inspected by the installer upon service replacement:

- 1. The drain pump must be level.
- 2. No pinched water lines.
- 3. No interference with electrical cords or wiring.
- 4. The drain pump should not set on any obstacles, wiring, etc.
- 5. Secure all hose clamps leading to and from the drain pump.
- 6. Insure that the vent tube height is adequate 18 inches minimum.
- Insure that drain height is adequate maximum of 8 feet.
- 8. Insure that drain length is adequate maximum of 20 feet.
- 9. Checked for water leaks after installation of the drain pump.
- 10. Check for vibrations caused by improper installation.
- 11. Insure that there is no interference with back access cover.
- 12. Insure that the hole grommets are in place at each location so that any vent or drain tubes do not rub on any sharp surfaces.



WARRANTY

Limited Warranty

When you purchase any new DCS Refrigeration Product, you automatically receive a One Year Limited Warranty covering parts and labor for servicing within the 48 mainland United States, Hawaii, Washington, D.C. and Canada. In Alaska the Limited Warranty is the same except that you must pay to ship the Product to the service shop or for the service technician's travel to your home. Products for use in Canada must be purchased through the authorized Canadian distribution channel to ensure regulatory compliance.

You receive an additional Four Year Limited Warranty (for a total of Five Years) covering parts for the sealed refrigeration system (compressor, evaporator, condenser, filter dryer, and connecting tubing) within the 48 mainland United States, Hawaii, Washington, D.C. and Canada. In Alaska the Limited Warranty for the sealed refrigeration system is the same except that you must pay to ship the Product to the service shop or the service technician's travel to your home.

Fisher & Paykel Undertakes to:

Repair without cost to the owner either for material or labor any part of the Product, the serial number of which appears on the Product, which is found to be defective. In Alaska, you must pay to ship the Product to the service shop or for the service technician's travel to your home.

If we are unable to repair a defective part of the Product after a reasonable number of attempts, at our option we may replace the part or the Product, or we may provide you a full refund of the purchase price of the Product (not including installation or other charges).

This warranty extends to the original purchaser and any succeeding owner of the Product for products purchased for ordinary single-family home use.

All service under this Limited Warranty shall be provided by Fisher & Paykel Appliances Inc. or its Authorized DCS Service Agent during normal business hours.

Limited Warranty

How Long Does this Limited Warranty Last?

Our liability under this Limited Warranty expires One Year from the date of purchase of the Product by the first consumer.

Our liability for repair of defects in any sealed refrigeration system (compressor, evaporator, condenser, filter dryer, and connecting tubing) extends an additional Four Years, for a total of Five Years from the date of purchase of the Product by the first consumer.

Our liability under any implied warranties, including the implied warranty of merchantability (an unwritten warranty that the Product is fit for ordinary use) also expires One Year (or such longer period as required by applicable law) from the date of purchase of the Product by the first consumer. Some states do not allow limitations on how long an implied warranty lasts, so this limit on implied warranties may not apply to you.

This Warranty Does Not Cover

- A. Service calls that are not related to any defect in the Product. The cost of a service call will be charged if the problem is not found to be a defect of the Product. For example:
 - 1. Correct faulty installation of the Product.
 - 2. Instruct you how to use the Product.
 - 3. Replace house fuses, reset circuit breakers, correct house wiring or plumbing, or replace light bulbs.
 - 4. Correct fault(s) caused by the user.
 - 5. Change the set-up of the Product.
 - 6. Unauthorized modifications of the Product.
 - Noise and vibration that is considered normal e.g. drain sounds, regeneration noises and user warning beeps.
 - Correcting damage caused by pests e.g. rats, cockroaches etc.
 - 9. Used in commercial applications.
- B. Defects caused by factors other than:
 - 1. Normal domestic use or
 - 2. Use in accordance with the Product's Use and Care Guide.

WARRANTY

- C. Defects to the Product caused by accident, neglect, misuses, fire, flood or Act of God.
- D. The cost of repairs carried out by non-authorized repairers or the cost of correcting such unauthorized repairs.
- E. Travel Fees and associated charges incurred when the product is installed in a location with limited or restricted access.(i.e. airplane flights, ferry charges, isolated geographic areas).
- F. Normal recommended maintenance as set forth in the Product's Use and Care Guide. If you have an installation problem contact your dealer or installer. You are responsible for providing adequate electrical, exhausting and other connection facilities. We are not responsible for consequential or incidental damages (the cost of repairing or replacing other property damaged if the Product is defective or any of your expenses caused if the Product is defective). Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

How to get service

Please read this Use and Care Guide. If you then have any questions about operating the Product, need the name of your local DCS Authorized Service Agent, or believe the Product is defective and wish service under this Limited Warranty, please contact your dealer or call us at:

TOLL FREE 1-888-936-7872 or contact us through our web site: www.dcsappliances.com
You may be required to provide reasonable proof of the

You may be required to provide reasonable proof of the date of purchase of the Product before the Product will be serviced under this Limited Warranty.

Commercial use

This warranty applies to appliances used in residential applications; it does not cover their use in commercial situations.

No other warranties

This Limited Warranty is the complete and exclusive agreement between you and Fisher & Paykel Appliances Inc. regarding any defect in the Product. None of our employees (or our Authorized Service Agents) are authorized to make

any addition or modification to this Limited Warranty.

Warrantor: Fisher & Paykel Appliances, Inc.

If you need further help concerning this Limited Warranty, please call us at the above number, or write to: Fisher & Paykel and DCS Appliances Inc 695 Town Centre Drive, Suite #180 Costa Mesa CA 92626-1902 USA

This Limited Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Fisher & Paykel Appliances Inc. is a leading manufacturer of premium quality cooking and specialty appliances under the Fisher & Paykel and DCS brands.

DCSOUTDOOR.COM

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The models shown in this guide may not be available in all markets and are subject to change at any time.

The product specifications in this guide apply to the specific products and models described at the date of issue. Under our policy of continuous product improvement, these specifications may change at any time.

For current details about model and specification availability in your country, please go to our website or contact your local Fisher & Paykel dealer.