



Product Manual for Ice Machine

Model DCE33



DCE33 User's Manual

INTRODUCTION

The Scotsman DCE33 is a restaurant type ice machine designed for home use. It produces the same high quality ice as large Scotsman commercial ice cube machines, and stores that ice in a heavily insulated storage bin.

This service manual is intended as a resource for people installing, using, and servicing the DCE33. Because it contains information on safety and maintenance, Scotsman strongly recommends that this manual be kept where it is readily available.

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Model Number	Basic Electrical	Maximum Fuse Size	Cabinet Color	Drain Pump?	Compressor HP	Refrigerant Charge, R-134a
DCE33A-1SSD	115/60/1	15 amp	Stainless	No	1/8	5 oz
DCE33PA-1SSD	115/60/1	15 amp	Stainless	Yes	1/8	5 oz

Add On Kits:

- Stainless Steel Door Panel Kit is SS33
- Cabinet Extensions: KCE18-SS (Stainless Steel)



WARNING: Cancer and Reproductive Harm
www.P65Warnings.ca.gov

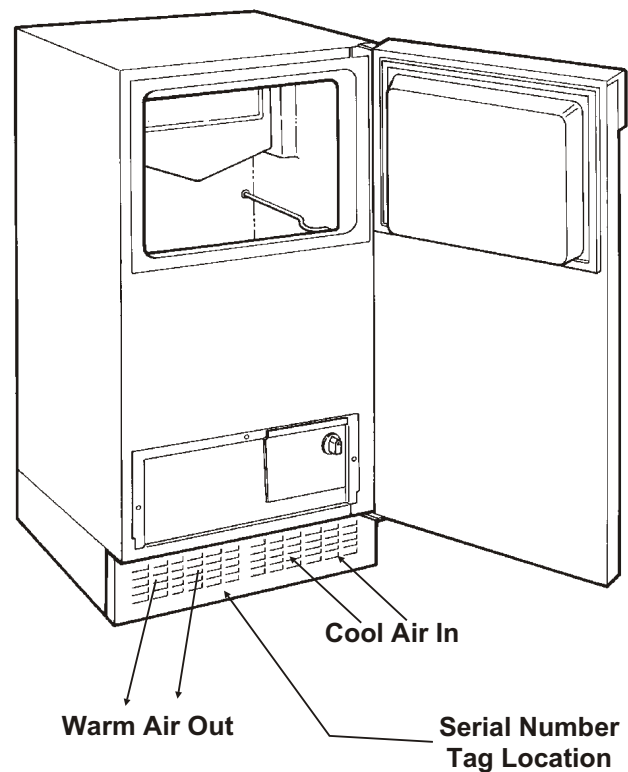
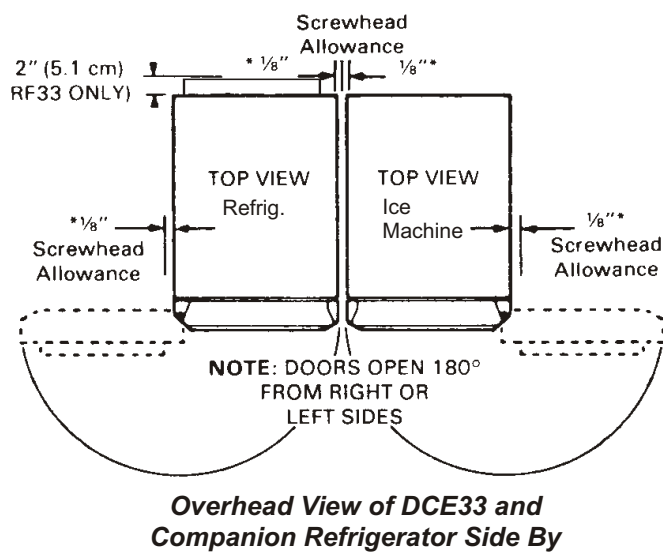
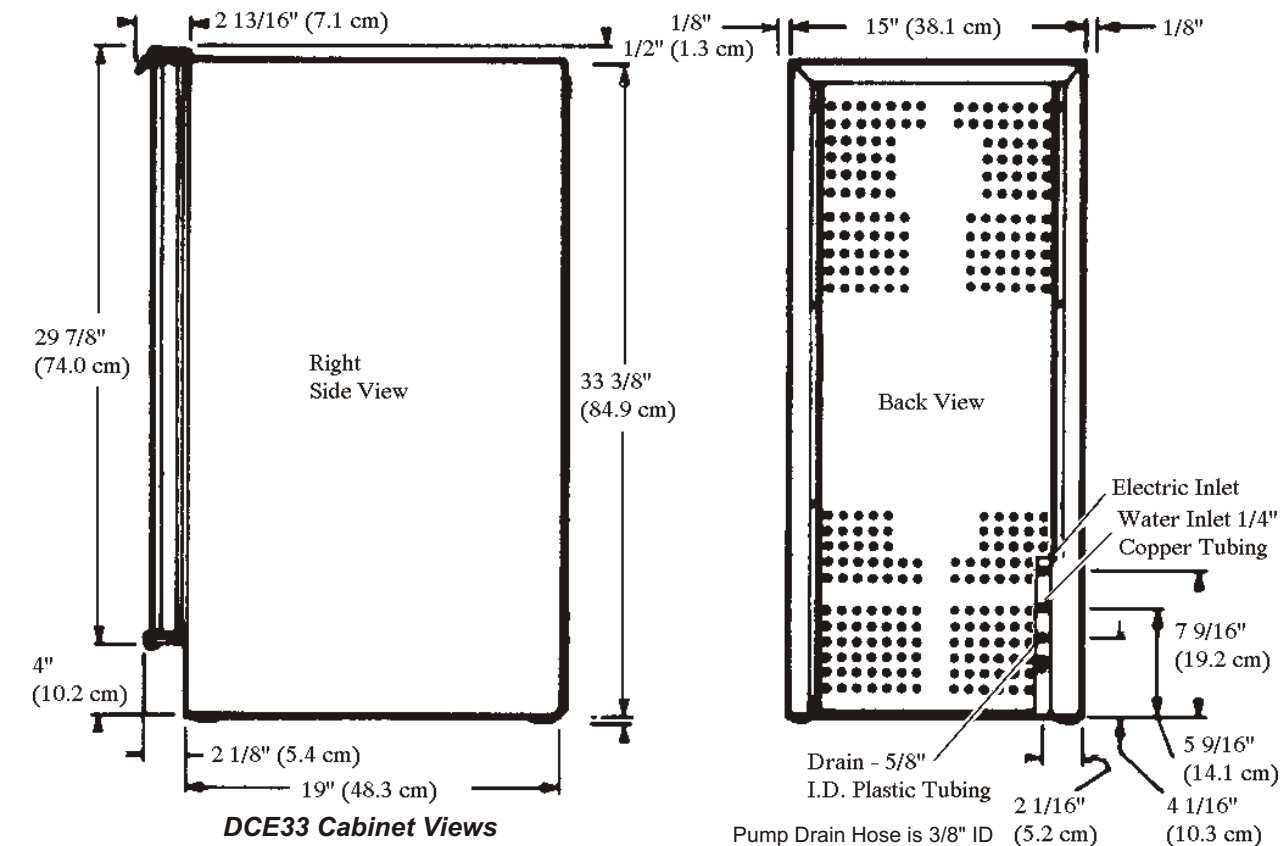
- Drain Pump Kit to convert gravity drain to pump drain is part number A39885-001 (must also order pump).

Scotsman Ice Systems are designed and manufactured with the highest regard for safety and performance. They meet or exceed the standards of U.L., and C.U.L.

Scotsman assumes no liability or responsibility of any kind for products manufactured by Scotsman that have been altered in any way, including the use of any parts and/or other components not specifically approved by Scotsman.

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CABINET DIMENSIONS



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INSTALLATION

To properly make and store ice, the DCE33 requires access to air, potable water, 115 volt electricity and a drain. The machine must be installed indoors, in a controlled environment.

Air: The ice machine uses a fan to take in room air at the front of the machine through the right side of the kick plate. It discharges warm air out the left side of the kick plate. Anything placed in front of the kick plate will restrict air flow and cause a decrease in performance and efficiency. The minimum air temperature the machine will operate in is 50⁰ F., and the maximum is 100⁰ F.

Water Supply: The ice machine requires a continuous supply of potable water at no less than 20 p.s.i.g. of flowing pressure. Static water pressure should not exceed 80 p.s.i.g. The minimum water temperature the machine will operate in is 40⁰ F., and the maximum is 100⁰ F.

Water Quality:

There is no such thing as “pure” water; all water, including potable water supplied by municipalities, contains some “impurities”. Water absorbs impurities from the air as rain and/or as it flows through the ground. Some of the impurities are solid particles, these are known as suspended solids, and a fine particle filter will remove them. Other impurities are chemically bonded to the water molecules, and cannot be filtered out, these are called dissolved solids.

Ice made by the DCE33 will have a lower mineral content than the water it was made from.

Purer water will freeze first in the ice making molds. The reason for this is that anything dissolved in water lowers the water’s freezing temperature.

This concentrates most of the impurities in the ice machine water reservoir where they may form hard deposits known as scale. The DCE33 dilutes the concentration of minerals by over-filling the reservoir during the harvest cycle (with the excess water flowing down the drain). About 3 quarts of water flow into the unit each cycle. About 1 quart of that rinses the reservoir and goes down the drain.

Some impurities will inevitably remain, and will stick to the parts in the machine, and will cause malformed ice cubes. Eventually, **built up mineral scale can shorten machine life.**

To keep the machine operating properly, these impurities or minerals will have to be regularly dissolved by an acid cleaning, using Scotsman Ice Machine Cleaner. Directions for this may be found in the section under cleaning.

In general, it is always a good idea to filter the water. A water filter, if it is of the proper type, can remove taste and odors as well as particles. Some methods of water treatment for dissolved solids include reverse osmosis, and polyphosphate feeders. A reverse osmosis system should include post treatment to satisfy the R.O. water’s “aggressiveness”.

Deionized water is not recommended.

Because water softeners exchange one mineral for another, Scotsman does not recommend their use for ice machines. Where water is very hard, softened water may result in white, mushy cubes that stick together.

Scotsman suggests, that if in doubt about the water, that a local point of use water specialist be contacted for recommendations on water treatment.

Electricity: The machine is supplied with a cord, and may be plugged into a wall outlet. The ice machine should be the only device using that circuit.

The fuse (or circuit breaker) size should be 15 amps.

Drain: There are two DCE33 models:

The DCE33A-1 is a gravity drain model that requires a drain tube that’s pitched down from the outlet at the back of the cabinet to the connection to the sanitary sewer.

The DCE33PA-1 has a built in drain pump that will pump water up to a drain point, such as a nearby sink.

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TO INSTALL: Plumbing

The water supply and drain should be roughed in and ready at the point of installation. A wall outlet directly behind the ice machine will make undercounter installation easier. All electrical, water and drain connections must conform to local codes.

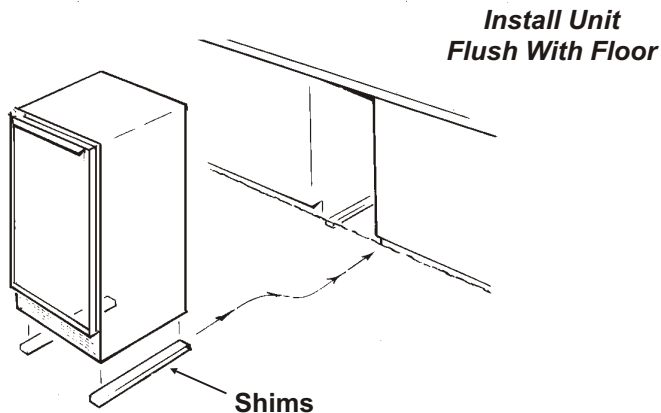
Installation Cautions: Although the DCE33 has been designed to be serviced in place, in some cases it may be necessary to pull the unit out for service. For that reason do not restrict access to the cabinet at the front - top and bottom.

Installations on a slab: Use a pump (DCE33PA-1) model and pump the water to the point of drainage. Pump models will pump 1 story high.

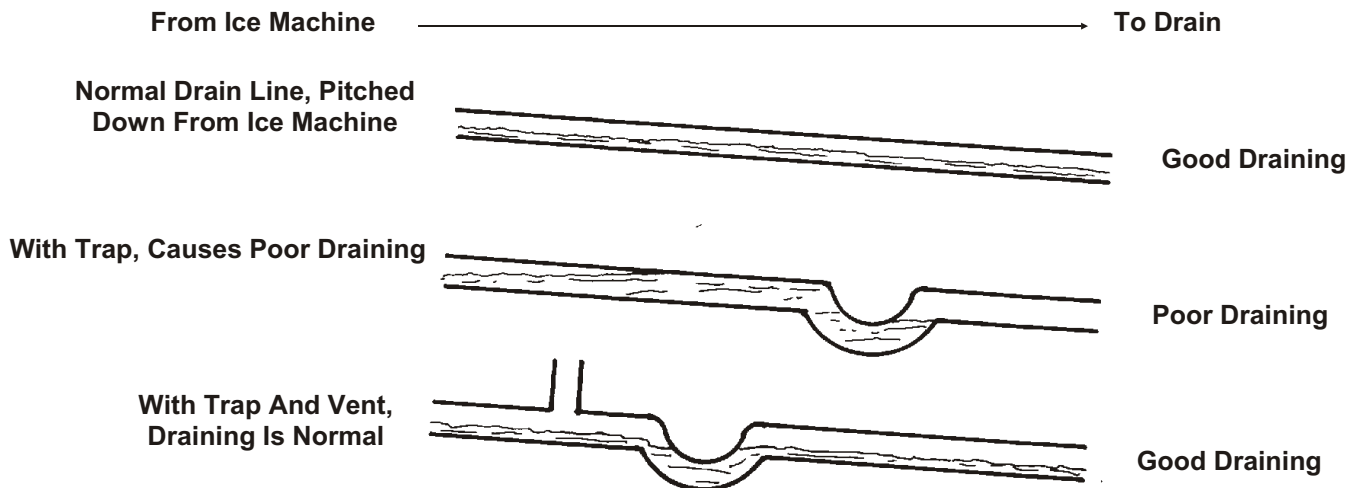
Installations over a crawl space or basement: Either gravity drain or pump model units may be used, if there is not enough room behind the machine for a drain/waste receptacle, the drain will have to be below the floor.

ALL PLUMBING MUST MEET LOCAL CODES

Note: When installed in a corner, the door swing may be limited due to handle contact with the wall or cabinet face.



If a floor is to be installed after the ice machine, shims the thickness of the floor should be installed under the DCE33 to keep the machine level with the floor. Also, allow 1/8" clearance on each side of the cabinet.



EXAMPLES OF GRAVITY DRAIN TUBE INSTALLATIONS

DCE33 User's Manual

TO INSTALL: Plumbing

Free Standing Cabinet, Gravity Drain Model:

All horizontal runs of drain lines must have a 1/4" per foot fall. An air gap will likely be required between the ice machine drain tube and the drain/waste receptacle. A stand pipe with a trap below it would be acceptable for the drain/waste receptacle. A floor drain is also acceptable.

FOLLOW ALL LOCAL PLUMBING CODES

Poor draining will cause a high rate of ice melting in the bin.

1. Remove the kick plate and the access cover above it.
2. Route the water supply, which should be a 1/4" O.D. copper tube through the back of the cabinet to the front.
3. Install a flare nut and flare the end of the tube.
4. Flush the water line and fasten the flare nut to the male flare on the inlet water valve.

5. Route a 5/8" ID (7/8" OD) drain tube through the back panel of the machine and connect to the bin drain fitting at the bottom of the bin. Secure with hose clamps.

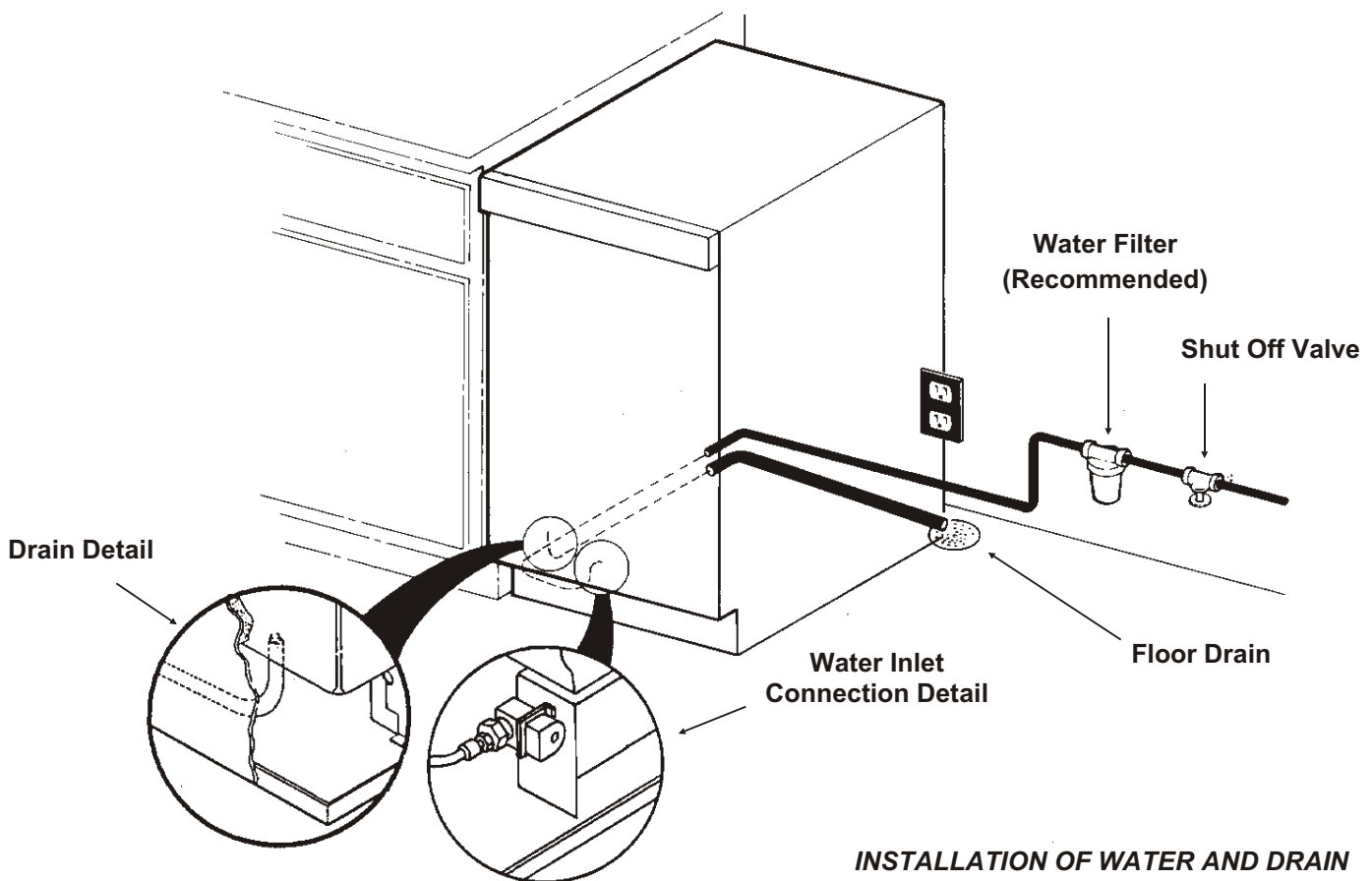
Be certain that the drain tube is pushed up well past the barbs on the drain fitting. If needed to ease installation, soak the drain hose in hot water just before connecting to the fitting.

6. Route the drain tube from the ice machine to the drain/waste receptacle. Note: if using a long horizontal run (more than 5') the drain should be vented at back of cabinet.

7. Turn on the water supply and check for leaks.

8. Replace the kick plate and the access cover above it.

9. Level the unit using the leg levelers.



INSTALLATION OF WATER AND DRAIN

DCE33 User's Manual

TO INSTALL: Plumbing

Free Standing Cabinet, Pump Model:

1. Remove the kickplate and control box cover.
2. Route the water supply, which should be a 1/4" O.D. copper tube through the back of the cabinet to the front.
3. Install a flare nut and flare the end of the tube.
4. Flush the water line and fasten the flare nut to the male flare on the inlet water valve.
5. Locate the coil of 3/8" ID plastic drain tubing secured to the back of the cabinet.

6. Route the plastic drain tubing to the drain point connection. Do not connect to a drain/waste line below a trap. Connect the discharge line to the drain, per local codes. An air gap will likely be required between the ice machine drain tube and the drain/waste receptacle.

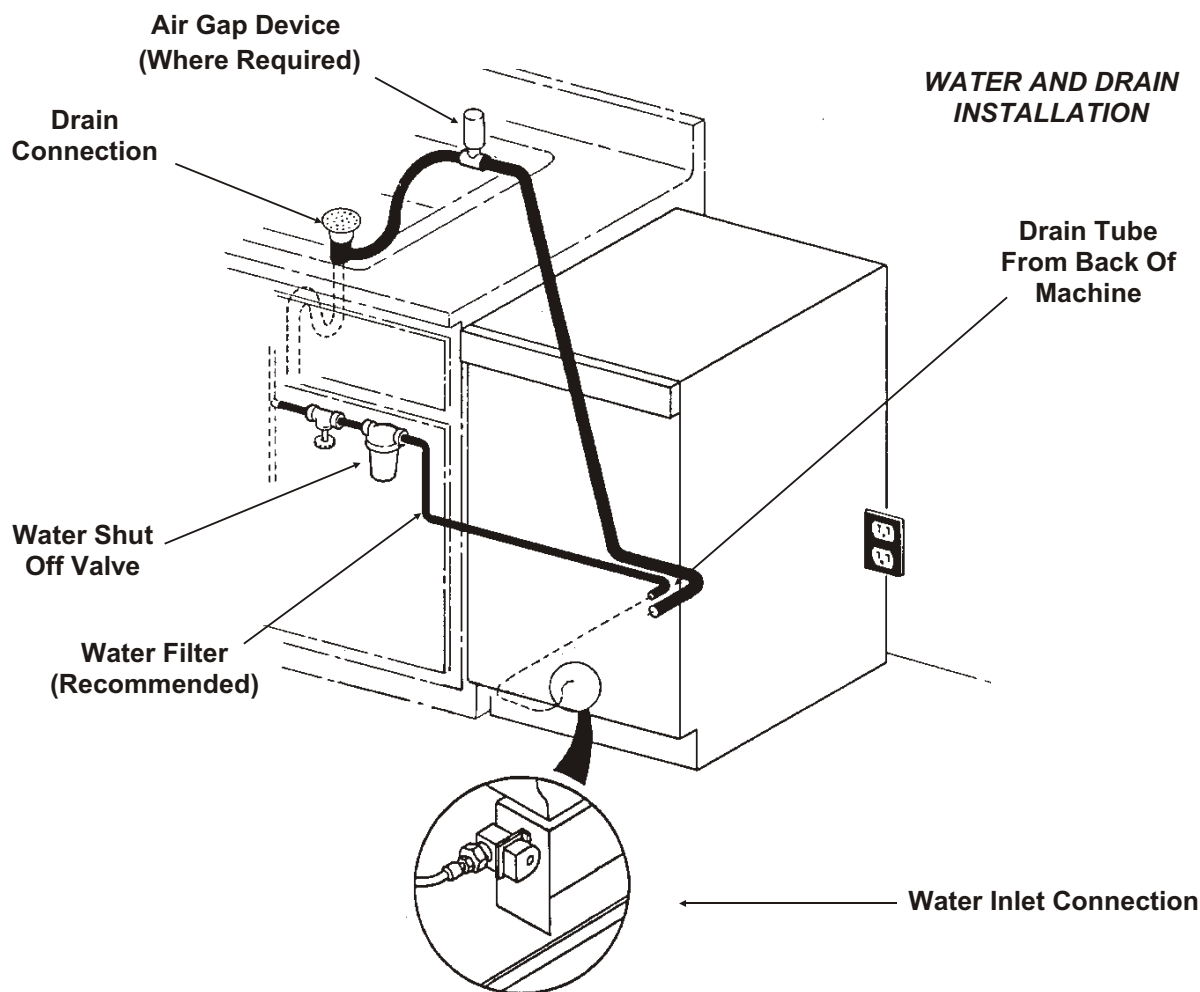
7. Turn on the water and plug in the ice machine. Pour a couple quarts of water in the bin, the drain pump should start. Check for water leaks.

8. Replace the kickplate and control box cover.

9. Level the unit using the leg levelers.

ALL PLUMBING MUST MEET LOCAL CODES

THE DCE33 WILL FIT IN A SPACE
15 $\frac{1}{4}$ " WIDE X 33 $\frac{3}{4}$ " HIGH.
THE DEPTH OF THE CABINET IS 22" TO
THE FRONT EDGE OF THE HANDLE.



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TO INSTALL: Plumbing

Built In, Gravity Drain Model:

The drain and inlet water tubes must be plumbed before connecting to the ice machine. All horizontal runs of drain lines must have a 1/4" per foot fall. An air gap will likely be required between the ice machine drain tube and the drain/waste receptacle. A stand pipe with a trap below it would be acceptable for the drain/waste receptacle.

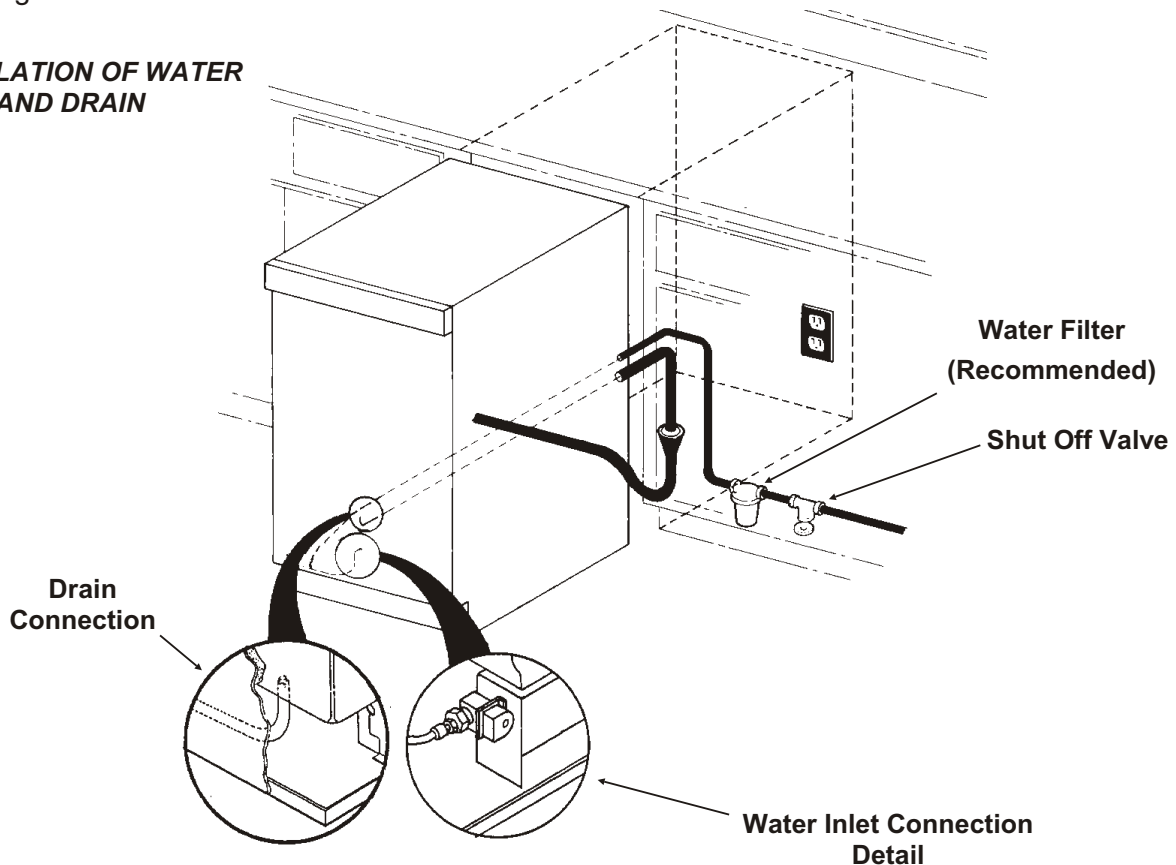
Note: Poor draining will cause a high rate of ice melting in the bin.

1. Place ice machine in front of installed location. Adjust leg levelers to approximately correct position.
2. Remove kickplate and the access cover above it.
3. Route water inlet line, which should be a 1/4" O.D. copper tube, from wall through ice machine to the front.
4. Route drain line from wall position through ice machine. Note: if using a long horizontal run (more than 5') the drain should be vented at back of cabinet.
5. If electrical outlet for ice machine is behind the cabinet, plug in the ice machine now.

6. Push ice machine into installed position.
7. Cut off water inlet line at required length.
8. Flush water line. Place flare nut on inlet water line and flare the end of the copper tube.
9. Attach flare nut to the male flare on the inlet water valve.
10. Cut off the drain tube to the required length.
11. Route a 5/8" drain tube through the back panel of the machine and connect to the bin drain fitting at the bottom of the bin. Secure with hose clamps. Be certain that the drain tube is pushed up well past the barbs on the drain fitting. If needed to ease installation, soak the drain hose in hot water just before connecting to the fitting.
12. Turn on the water supply and check for leaks.
13. Replace the kickplate and the access cover above it. Level as needed.

ALL PLUMBING MUST MEET LOCAL CODES

INSTALLATION OF WATER AND DRAIN



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TO INSTALL: Plumbing

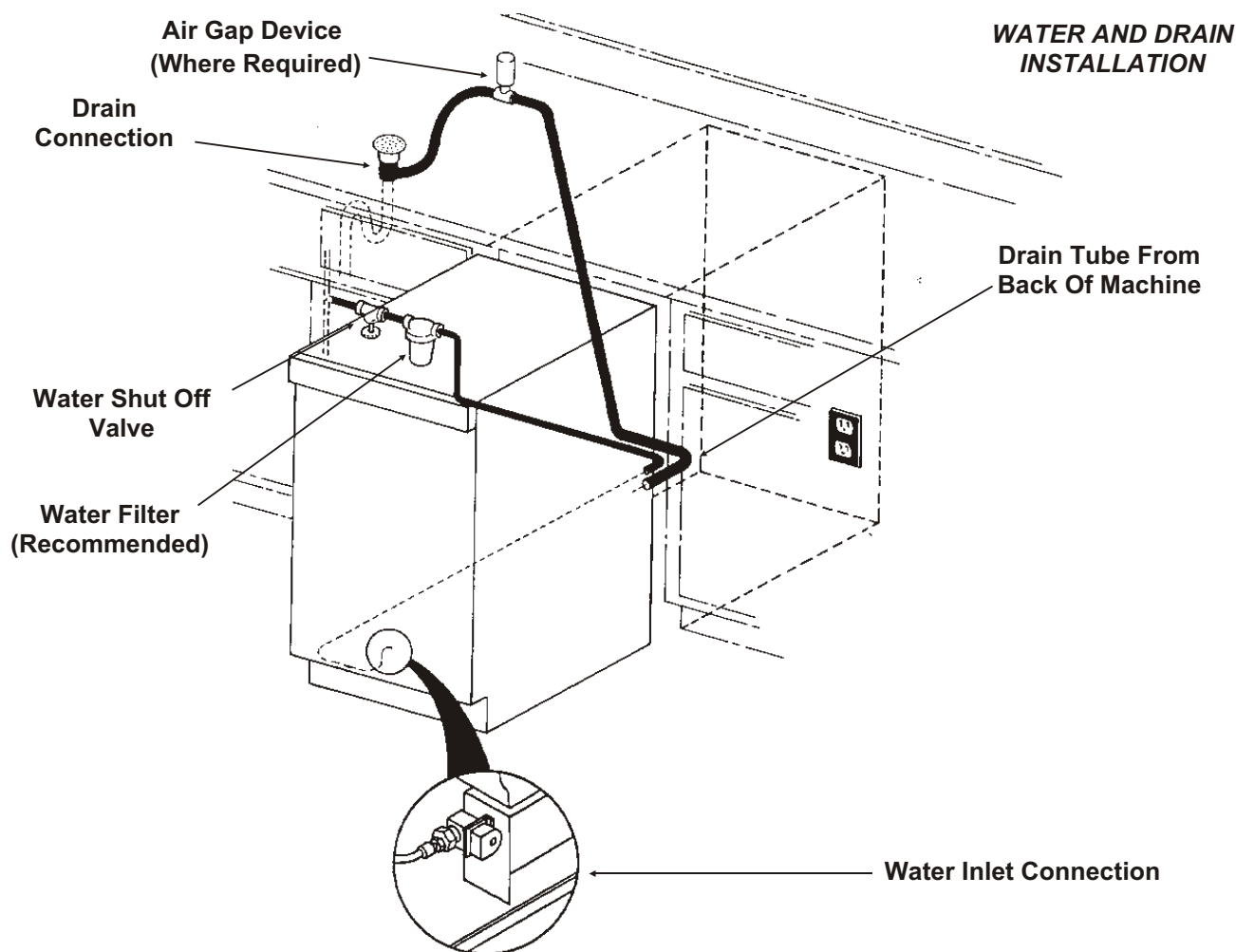
Built In Pump Model:

1. Place ice machine in front of installed location. Adjust leg levelers to approximately correct position.
 2. Remove kickplate and control box cover.
 3. Route water inlet line from wall through ice machine to the front.
 4. Locate coil of 3/8" ID plastic drain tubing secured to the back of the cabinet.
 5. Route plastic drain tube from back of cabinet to drain connection point.
- Note: Often an air gap is required by local codes between the ice machine drain tube and the drain receptacle.
6. If electrical outlet for ice machine is behind the cabinet, plug in the ice machine now.
 7. Push ice machine into installed position.
 8. Cut off water inlet line at required length.

9. Flush water line. Place flare nut on inlet water line and flare the end of the copper tube.
10. Attach flare nut to the male flare on the inlet water valve.
11. Turn on the water supply, and make sure that the ice machine is plugged in and the power is on.
12. Pour a couple of quarts of water into the storage bin, the drain pump should start and pump water out. Check for leaks.
13. Replace kickplate and control box cover.
14. Level the cabinet as needed.

ALL PLUMBING MUST MEET LOCAL CODES

**THE DCE33 WILL FIT IN A SPACE
15 $\frac{1}{4}$ " WIDE X 33 $\frac{3}{4}$ " HIGH.
THE DEPTH OF THE CABINET IS 22" TO
THE FRONT EDGE OF THE HANDLE.**



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TO INSTALL: Add On Kits

Door Kit: The door may be modified to accept a decorator door panel.

Customizing Door Panel:

A custom door panel may be installed in front of the standard one. Any panel 14 $\frac{3}{4}$ " wide, 28 $\frac{15}{16}$ " high and $\frac{1}{4}$ " thick or less at the edges may be used as a decorator panel. Examples of decorator panels include wood to match the adjacent cabinets; metal of different colors to match nearby appliances; or just about any material that will fit.

If the material is less than 1/4" thick, the space between the new panel and the original may be filled with cardboard.

1. Remove single screw and the left hand hinge filler plate from the top of the door.

2. Remove two screws from the top of the door and lift off the door handle.

3. Open the door slightly, about one-third or so; then, remove the front screw holding the hinge to the door.

4. Loosen the rear screw of the hinge just enough to allow the door to sag or move forward. This will allow access to the top of the channels at the right and left edges of the door.

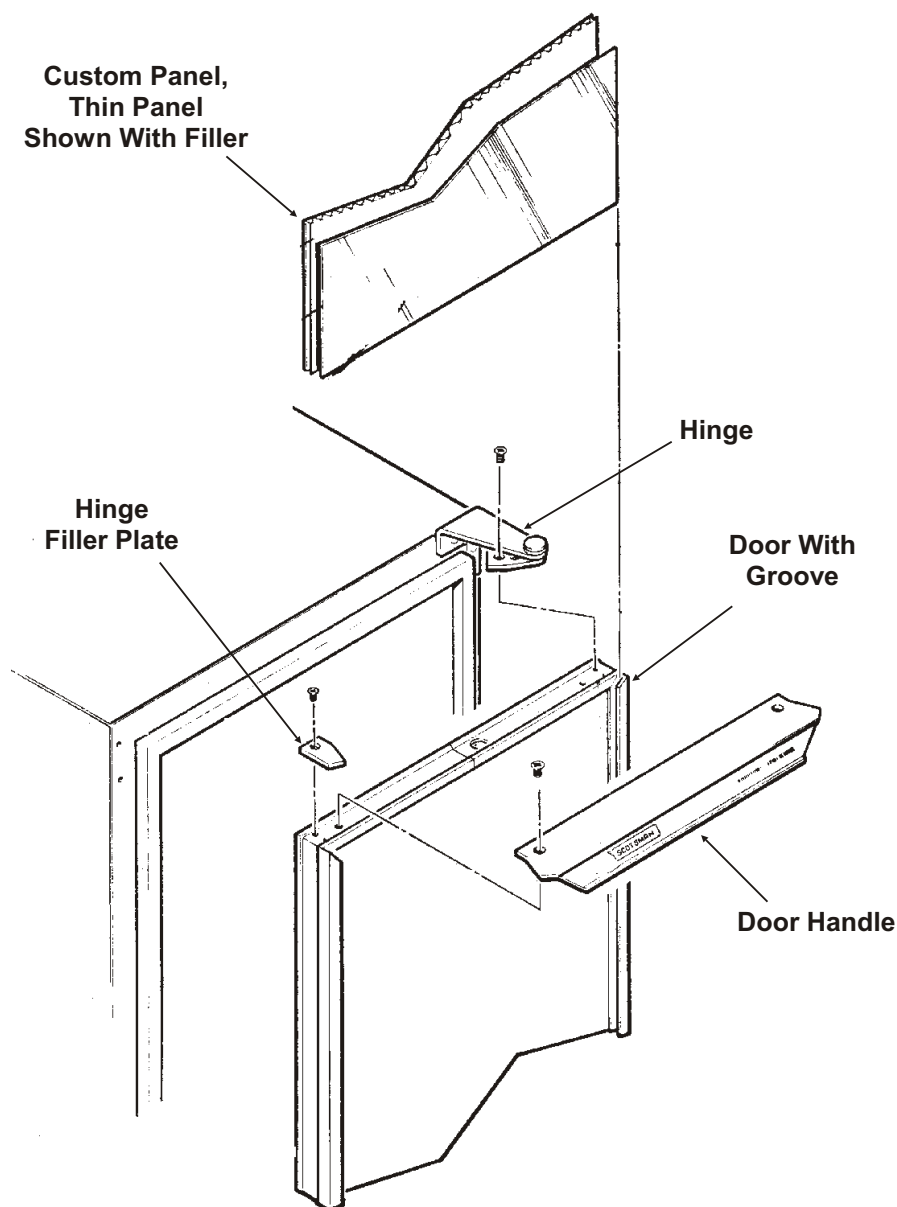
5. From the top of the door, insert the decorator panel (pre-cut) evenly into the channels; carefully slide the panel all the way down until the panel is fully into the bottom channel.

6. Check that the panel is in all the way and does not protrude past the top edge of the door.

7. Push the top hinge corner of the door IN to align screw hole in the hinge with the screw hole in the door. Install the screw previously removed. Tighten the other screw.

8. Replace the door handle and filler plate; secure with screws previously removed.

Parts Involved in Customizing Door Panel



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AFTER INSTALLATION - OPERATION

Final Check List

1. Has the machine been properly uncrated, and have all packing materials and tape been removed from inside the bin?
2. Have the installation instructions been followed, including connecting the machine to water, drain and electricity?
3. Has the machine been leveled?

Initial Start Up

1. Turn on water supply.
2. With unit plugged in, rotate ice machine control knob to the ON position.
3. Allow the unit to operate for 1 hour, and check the size of the cubes, if they are not correct, adjust as recommended on page 18.
4. After the cubes are confirmed to be the correct size, replace all panels.
5. Locate the nameplate on the control box cover. Record the serial number and date of start up here in the manual. Keep the manual handy for future reference.

Serial Number: _____

Date of initial start up: _____

6. Fill out and mail the Warranty Registration.

How To Use:

The ice machine is extremely simple to use, just turn the ice machine control knob to the on position. The DCE33 will automatically begin to freeze ice and will continue to do so until the bin is full. A new machine, warm out of the box, could take as long as 48 hours to fill and shut off.

Use the scoop to remove ice and place the ice scoop in the holder provided (do not leave the scoop on the ice, as it will gradually disappear into the ice).

What to expect from the DCE33

The DCE33 will release a batch of 8 ice cubes about every 30 minutes. At the same time the cubes fall into the storage bin, water will be entering the ice machine and draining out.

Ice: The ice cubes are tapered cylinders about $1\frac{1}{4}$ " in diameter at the widest end; taper down to 1" wide at the top; and are $1\frac{1}{8}$ " high. When the machine is adjusted properly, there should be a $\frac{1}{4}$ " indent in the base of the cube. The ice will appear wet when fresh, this is normal. It may also develop frost on the outside and look cloudy - this is also normal (the frost will disappear when liquid is poured over the ice).

Storage: All restaurant type ice machine operate on this principal: The ice storage bin is not refrigerated; instead it's heavily insulated, much like a picnic cooler or ice chest. If the ice bin were to be refrigerated, the ice would freeze together into one very large cluster of ice, and would begin to evaporate. This would yield ice that is very poor in quality, and difficult to remove from the machine.

The DCE33 will continue to operate until ice builds up high enough to contact the bin thermostat sensor tube, then it will shut off. Models with a drain pump will occasionally pump out melt water when the machine is off. The pump will only be on for a few seconds.

Run Time: The amount of time the DCE33 will run to replace melted ice is about 6 hours per day. The amount of time the ice machine will run to replace ice removed is dependent upon how much is removed, how clean the ice machine is, and how hot the air and water supplied to the machine are. A machine that has been emptied will usually take about 24-36 hours to re-fill.

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AFTER INSTALLATION

Reversing Door Swing:

The hinged side of the door may be reversed to the other side if desired:

The DCE33 was shipped with the door hinged at the right. The door and hinges are designed for placing the hinges on either the right or the left side of the cabinet. Moving the hinges to the left allows the door to pivot from the left side.

Note: There is a part, packed with the machine, that is required for this procedure.

1. Open the door and remove the three screws holding the lower hinge to the cabinet.

2. With the door open enough to see both screws at the top door hinge, remove the two screws. The door is now free of the cabinet.

3. Remove the single screw and the hinge filler plate from the top of the door.

4. Install the other filler plate (shipped inside refrigerator compartment) onto the top corner of the door where the hinge was.

5. Remove the three plastic plugs from the top front corner where the hinge will mount.

6. Remove the three plastic plugs from the lower front corner where that hinge will mount.

7. Remove the three screws holding the top hinge to the cabinet. Remove that hinge from the top and, flipping it upside down, install it onto the bottom of the door, on the opposite side using the original screws.

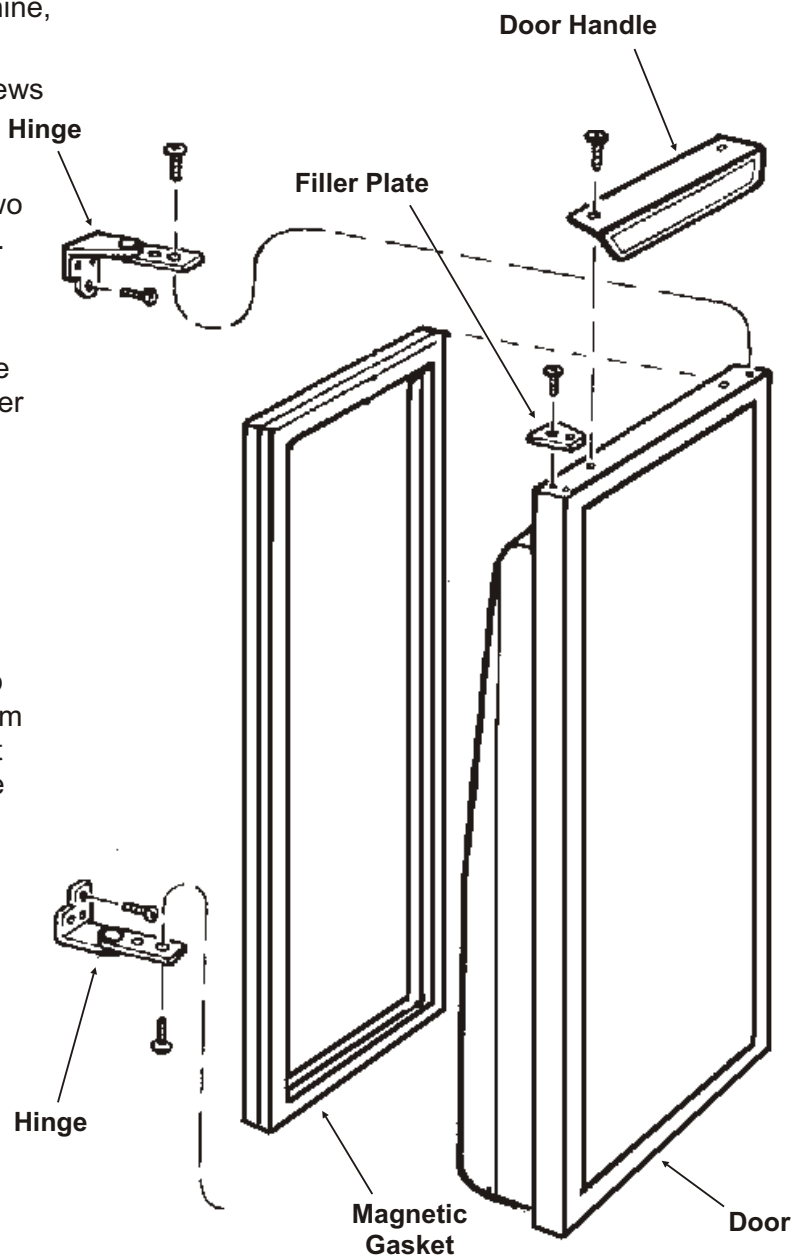
8. Remove the hinge assembly from the bottom of the door, and flip it upside down; secure it to the cabinet at the opposite side top position with the original screws.

9. Hold the door up to the cabinet. Secure the door to the top hinge with the original screws.

10. Secure the bottom hinge to the cabinet with the original screws.

11. Place the plastic plugs removed earlier into the empty holes.

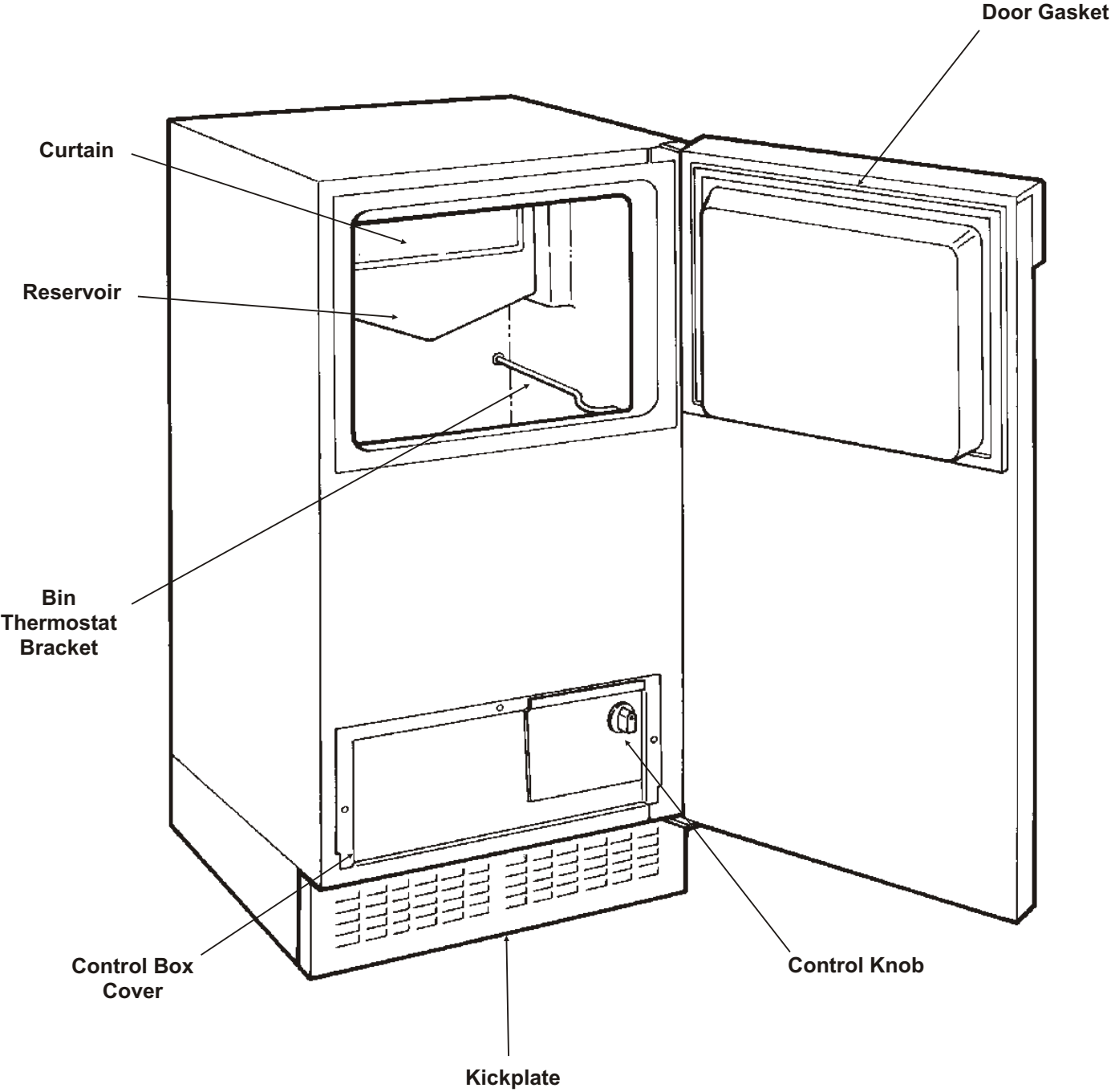
12. Check operation of the door by opening and closing it.



Reverse Hinges From Top to Bottom and Left to Right to Reverse Door Swing

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COMPONENT LOCATION



DCE33 User's Manual

MAINTENANCE AND CLEANING

What shouldn't be done?

Never keep anything in the ice storage bin that is not ice; objects like wine or beer bottles are not only unsanitary, but the labels may slip off and plug up the drain.

Never allow the machine to operate without regular cleaning. The machine will last longer if it is kept clean. Regular cleaning should happen at least once per year, and preferably twice. Some water conditions will dictate even more frequent cleaning of the ice making section, and some carpets or pets will dictate more frequent cleaning of the condenser.

What should be kept clean?

There are 5 things to keep clean:

1. The outside cabinet & door.
2. The ice storage bin.
3. The condenser.
4. The ice making system.
5. The ice scoop.

How to clean the cabinet.

Wipe off any spills on the surface of the door and handle as they occur. If anything spilled on the door or gasket dries onto the surface, wash with soap and warm water to remove.

How to clean the ice storage bin.

The ice storage bin should be sanitized occasionally. It is usually convenient to sanitize the bin after the ice making system has been cleaned, and the storage bin is empty.

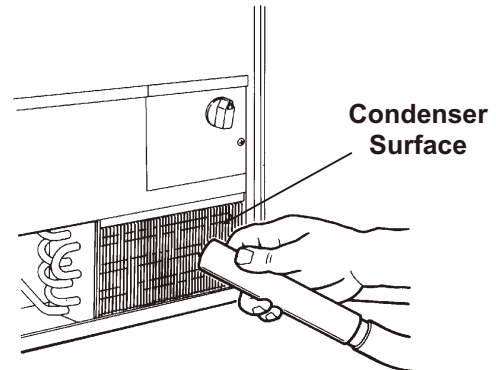
A sanitizing solution can be made of 1 ounce of household bleach and two gallons of hot (95°F. - 115°F.) water. Use a clean cloth and wipe the interior of the ice storage bin with the sanitizing solution, pour some of the solution down the drain. Allow to air dry.

**Note: To use after winterizing,
reconnect pump hose and water line.
Repeat Initial Start Up.**

How to clean the condenser.

The condenser is like the radiator on a car, it has fins and tubes that can become clogged. To clean:

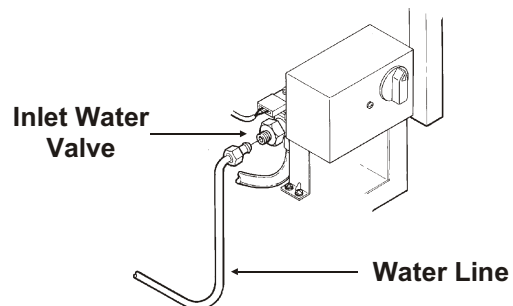
1. Remove the kickplate.
 2. Locate the condenser surface.
 3. Vacuum the surface, removing all dust and lint.
- Caution: Do not dent the fins.



4. Replace the kickplate.

Winterizing

1. Clean the machine as explained on the next page.
2. Turn off the water supply.
3. Drain the water reservoir. See page 24, Spray Pump Repair and follow the instructions to remove the pump hose (step 2, bottom hose only).
4. Disconnect the incoming water line at the inlet water valve.



5. Remove control box cover and turn the timer into the harvest cycle.
6. With the machine operating, blow air through the inlet water valve; a tire pump could do the job.
7. Drain pump models should have about ½ gallon of RV antifreeze (propylene glycol) poured into the ice storage bin drain.

Note: Automotive antifreeze must **NOT** be used.

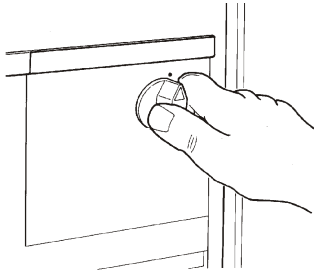
8. Replace control box cover. Switch off and unplug the machine.

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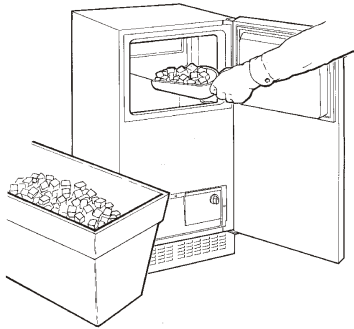
CLEANING

How to clean the ice making system.

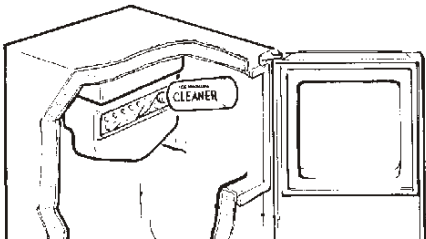
1. Open the door and turn the ice machine control knob to off.



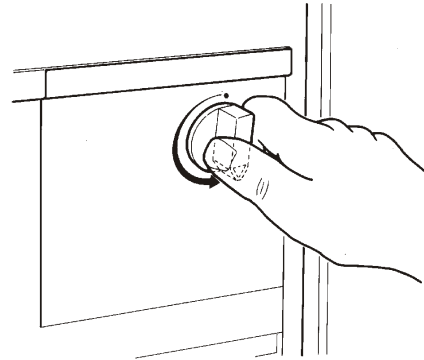
2. Scoop out all of the ice, either discard it or save it in a ice chest or cooler.



3. Pour 4 ounces of Scotsman Clear 1 Ice Machine Cleaner (available from a local Scotsman Distributor or Dealer), into the ice machine reservoir.



4. Turn the ice machine control to ON.



5. Allow the machine to operate for about 2 hours.

6. Pour hot (95°F. - 115°F.) water into the bin to melt the ice that has formed. That ice will likely be white and frosty looking.

7. Clean the bin liner of mineral scale by mixing some ice machine cleaner and hot water, and using that solution to scrub the scale off of the liner.

8. Rinse the liner with hot water.

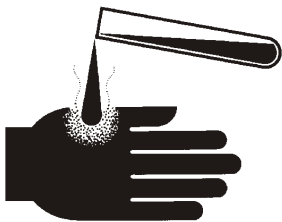
9. Sanitize the bin interior.

10. Replace the ice removed in step 2.

The ice scoop should be washed regularly, wash it just like any other food container.

Note: Over time biofilm can grow inside the drain system which can affect the ability for the drain system to evacuate the drain water. On the pump models this can also drive a erratic pump operation. Including the pump cycling rapidly or running all the time. Biofilm and pump cycling issues will eventually lead to low production and standing water in the bin. To ensure that this does not become an issue frequent bin sanitizing may be required.

⚠ WARNING



Scotsman Ice Machine Cleaner contains acids. These compounds may cause burns. If swallowed, DO NOT induce vomiting. Give large amounts of water or milk. Call Physician immediately. In case of skin contact, flush with water. Keep out of the reach of children.

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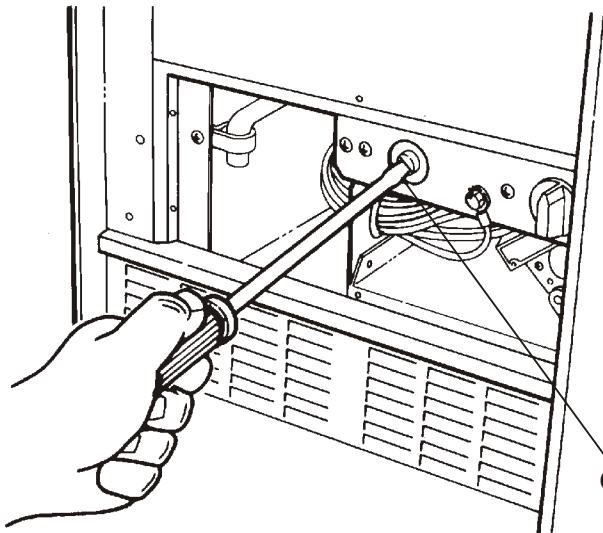
ADJUSTMENTS

There are three items that may be adjusted: Cube Size, Harvest Time, and Bin Level. Note: Cube Size and Harvest Time adjustments should only be done by a qualified service person.

Cube size control.

The cube size control should only be adjusted to bring the cubes to the correct shape, the overall size cannot be adjusted. Try to adjust the cube size control when the ice machine is in the harvest cycle, or in the first 10 minutes of the freeze cycle.

1. Open the door and remove the control box cover.
2. Locate the cube size adjustment screw, and to make fuller cubes, turn the screw clockwise about



CUBE SIZE ADJUSTMENT

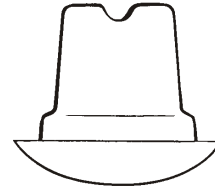
1/4 turn. This will make the freezing cycle longer.

3. To shorten the freezing cycle and make cubes that are not as full, turn the adjustment screw 1/4 turn counterclockwise.

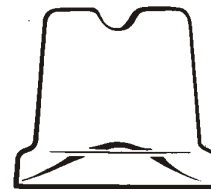
4. After the next freezing cycle, the cubes should have responded to the adjustment, if another adjustment is required, do it early in the freeze cycle.

SIDE VIEW OF CUBES

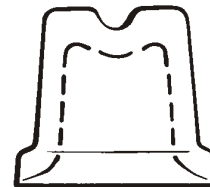
TOO
BIG



CORRECT
SIZE



TOO
SMALL



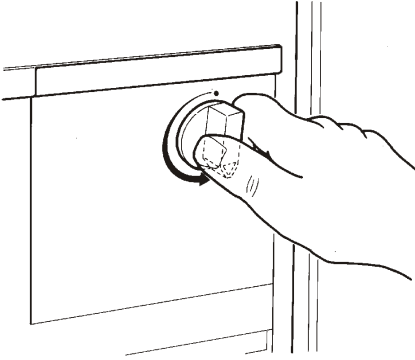
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ADJUSTMENTS

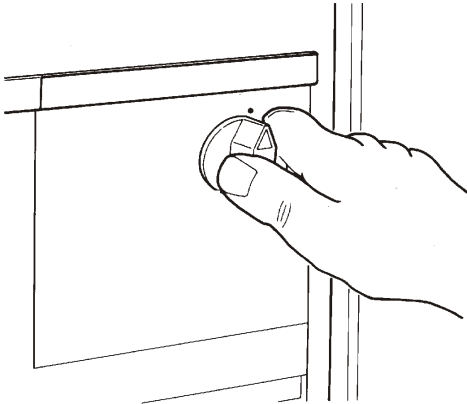
Bin's ice level.

When the ice machine shuts off the ice level in the bin should be even with the metal tube inside the bin. If the ice in the bin is too high or low, turn the ice machine control knob to adjust the bin thermostat.

1. To lower the ice level, turn the knob counterclockwise. Usually a 1/8 turn will be enough.



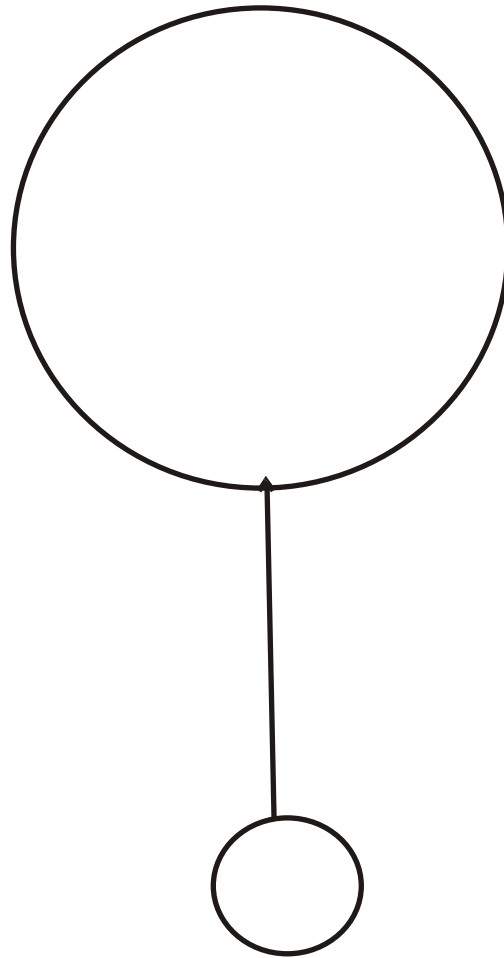
2. To increase the ice level, turn the knob clockwise. Usually a 1/8 turn will be enough.



Harvest Time Adjustment

The harvest time can be adjusted so that all the ice is released during the harvest period, with a few seconds extra for a safety margin. The adjustment range is between 2 to 5 minutes.

There is an adjustment screw on the surface of the electronic timer. Rotate the screw CCW to reduce harvest time, and CW to increase it. It should be set to match the machine's performance. If the machine takes 2 and a half minutes to release the ice, the harvest time should be set to about 3 minutes.



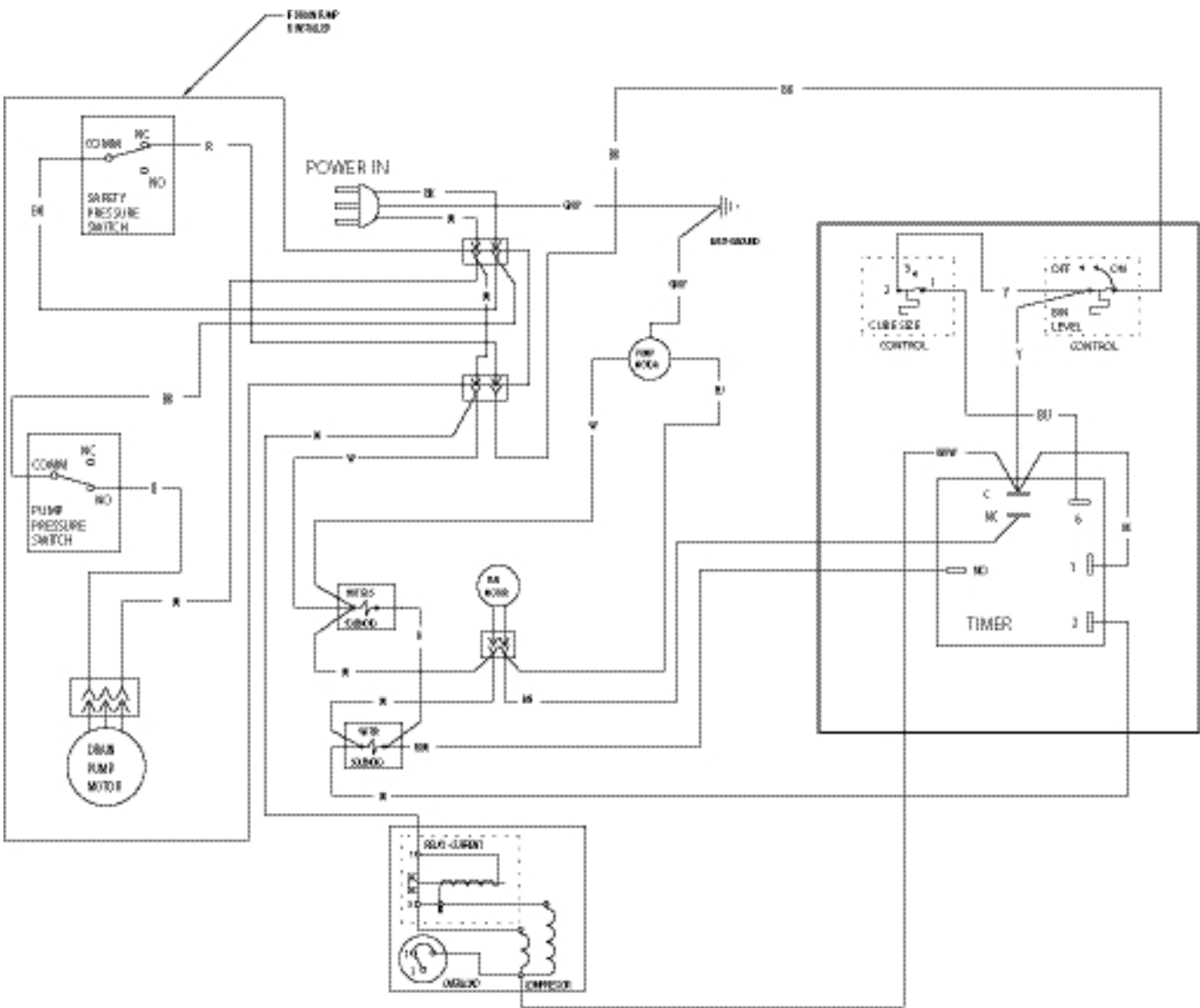
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SERVICE DIAGNOSIS

PROBLEM	POSSIBLE CAUSE	PROBABLE CORRECTION
No ice falling in bin, but machine operates	Ice may be stuck in the evaporator and the unit is “frozen up”.	Check water supply - filter may be restricted
		Check inlet water valve - screen may be restricted, or valve does not operate.
		Hot gas valve may not operate - check and repair/replace.
		Harvest time set too short - timer needs adjustment.
	Too much heat load.	Inlet water valve leaks thru, needs to be replaced.
	No water spray	Water pump does not work, replace it.
		Water leak from reservoir, locate and repair.
	Cube size control will not close	See “Too much heat load” or “not enough refrigerant”
		Control defective - must be replaced.
	No airflow	Fan motor not turning, needs to be replaced.
Fan blade broken, needs to be replaced.		
Condenser completely blocked up, needs cleaning.		
Standing water in the bin	Drain line restriction or drain pump maintenance required	Remove restriction or contact service provider to check drain pump operation

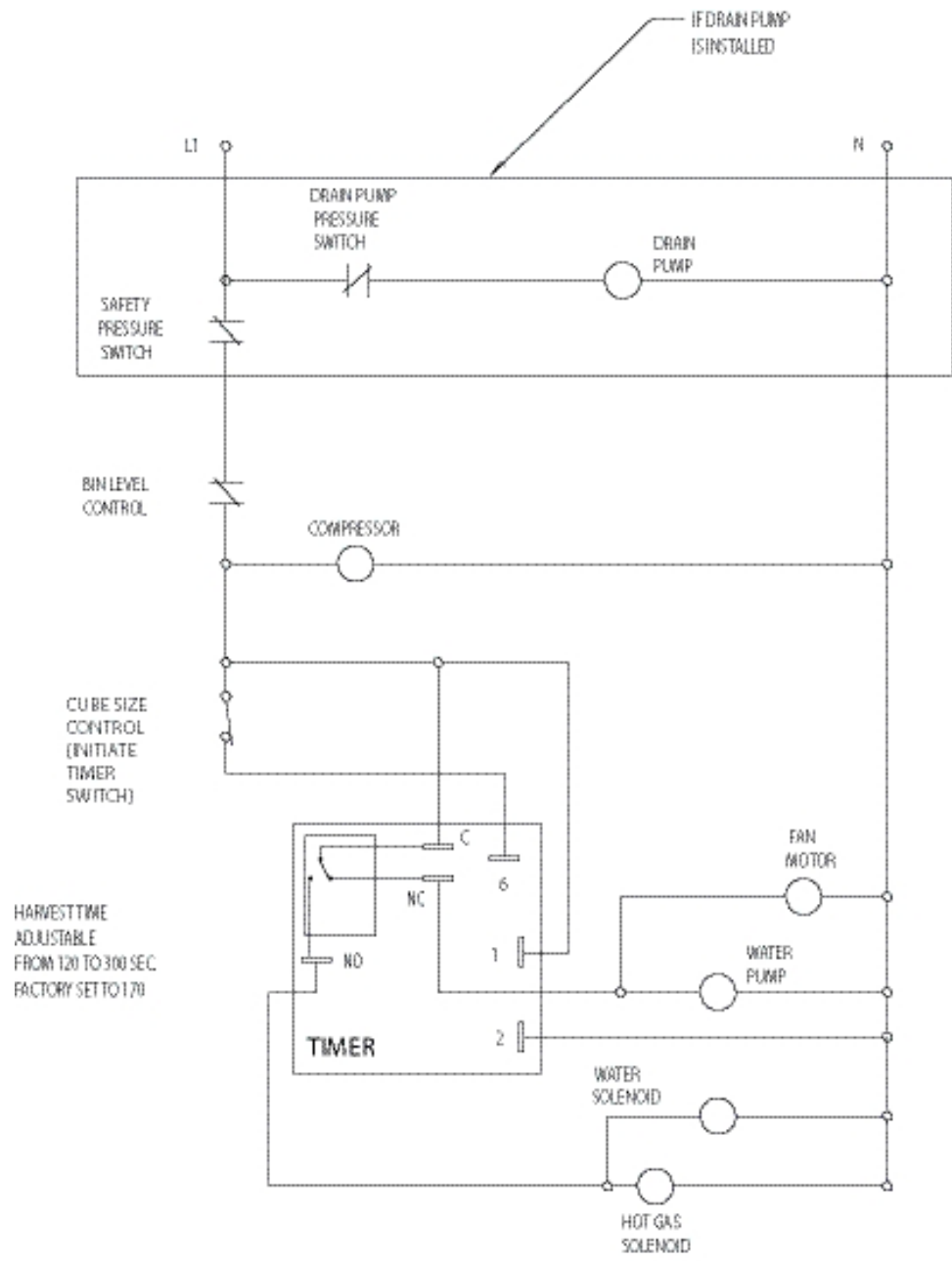
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WIRING DIAGRAM



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SCHEMATIC DIAGRAM



SWITCHES ON THIS UNIT
SHOWN IN TIMED PORTION
OF THE FREEZE CYCLE
WITH DRAIN PUMP IN OPERATION

SCOTSMAN ICE SYSTEMS

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Vernon Hills, IL 60061

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