

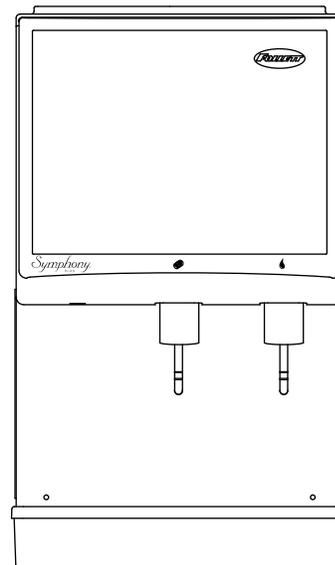
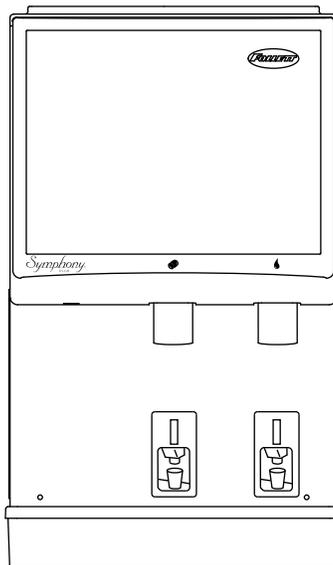


# Symphony Plus™ 25 and 50 Series Ice and Water Dispensers C/E25CI425A, C/E50CI425A

## Installation, Operation and Service Manual

After serial number L90016

Please visit <https://www.follettice.com/technicaldocuments>  
for the Operation and Service manual for your unit.



### Welcome to Follett

Follett equipment enjoys a well-deserved reputation for excellent performance, long-term reliability and outstanding after-the-sale support. To ensure that this equipment delivers that same degree of service, review this guide carefully before you begin your installation.

Should you have need technical help, please call our Technical Service group at (877) 612-5086 or (610) 252-7301.

Please have your model number, serial number and complete and detailed explanation of the problem when contacting Technical Service.

### Getting Started

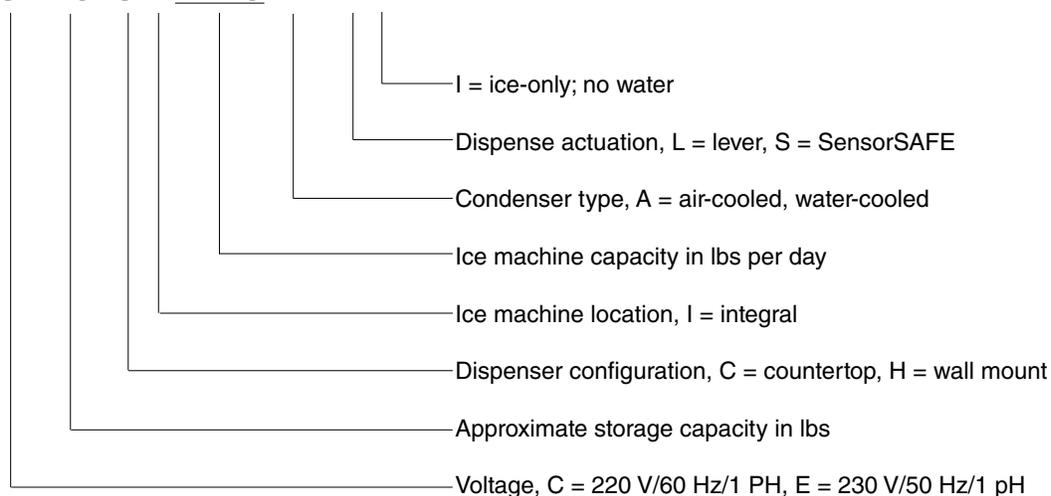
After uncrating and removing all packing material. Inspect the equipment for concealed shipping damage. All freight is to be inspected upon delivery. If visible signs of damage exist, please refuse delivery or sign your delivery receipt "damaged." Follett Customer Service must be notified within 48 hours. Wherever possible, please include detailed photos of the damage with the original packaging so that we may start the freight claim process.

# Contents

<b>Welcome to Follett</b> .....	<b>1</b>
Getting Started .....	1
<b>Specifications</b> .....	<b>4</b>
Electrical .....	5
Ambient .....	5
Plumbing .....	5
Ventilation clearances .....	5
Dry weight .....	5
<b>Installation</b> .....	<b>6</b>
Before you begin .....	6
Installing countertop dispensers with rear exiting utilities (no legs) .....	6
Installing countertop dispensers with bottom exiting utilities .....	7
<b>User information</b> .....	<b>8</b>
How the dispenser works .....	8
<b>Cleaning</b> .....	<b>8</b>
Weekly .....	9
Monthly .....	9
Semi-Annually (more often if conditions dictate) .....	9
Ice Machine and Dispenser .....	10
<b>Service</b> .....	<b>11</b>
Ice machine Operation (all models) .....	11
The icemaking process .....	11
Water system .....	12
Wiring diagram - Lever .....	15
Wiring diagram - SensorSAFE .....	16
Ice machine operational and diagnostic sequences .....	17
Diagnostic Stages .....	23
Refrigeration system .....	30
<b>Dispenser troubleshooting</b> .....	<b>33</b>
Lever model troubleshooting guide .....	33
SensorSAFE model troubleshooting guide .....	33
<b>Ice machine removal instructions</b> .....	<b>34</b>
Evaporator disassembly .....	37
Evaporator reassembly .....	38
Gearmotor replacement .....	38
<b>Replacement parts</b> .....	<b>39</b>
Dispenser exterior .....	39
Wheel motor and drive system .....	40
Dispense chute and splash panel (models with SensorSAFE infrared dispensing) .....	41
Dispense chute and splash panel (models with lever dispensing) .....	42
Dispenser electrical box – SensorSAFE models .....	43
Dispenser electrical box – lever models .....	44
Water and drain .....	45
Water treatment accessories for Symphony Plus ice and water dispensers .....	46
Ice machine electrical components .....	47
Air-cooled ice machines - 230 V 50 Hz .....	48
Air-cooled ice machines - 220 V 60 Hz .....	50
Water-cooled ice machines - 230 V 50 Hz .....	52
Water-cooled ice machines - 220 V 60 Hz .....	54
Evaporator replacement parts .....	56

Check your paperwork to determine which model you have. Follett model numbers are designed to provide information about the type and capacity of Follett ice dispensing equipment. Following is an explanation of the different model numbers.

## C25CI425A-LI

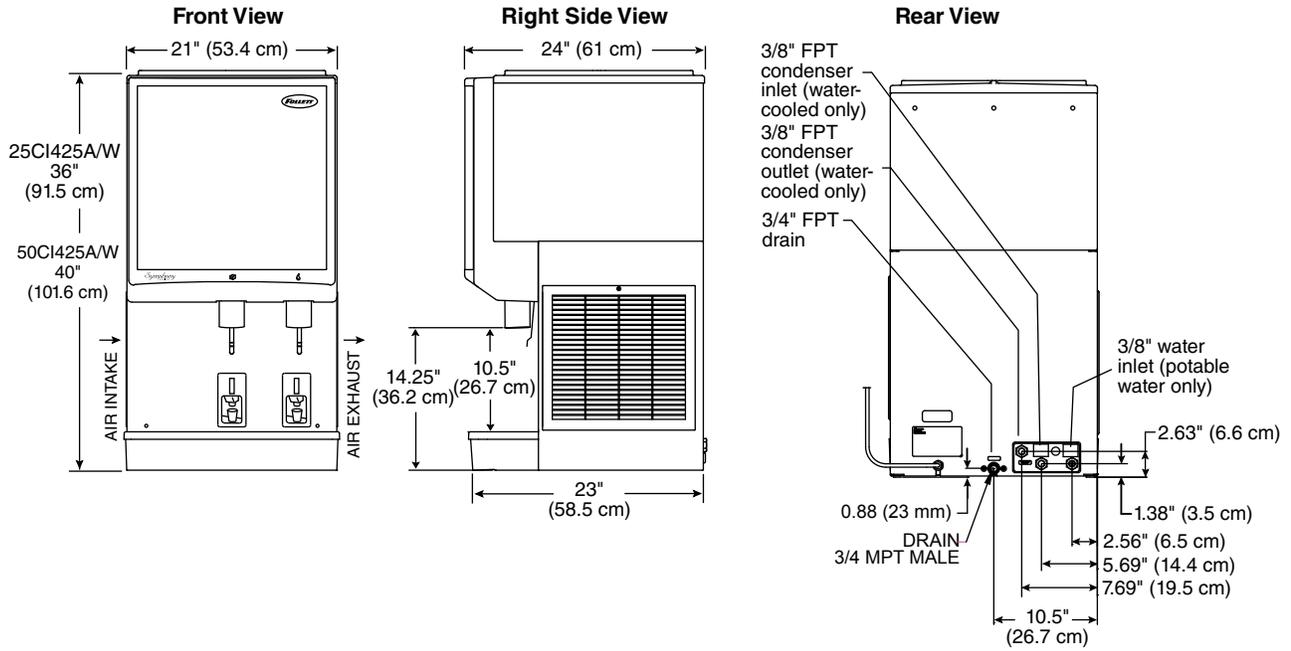


### CAUTION!

- Do not tilt unit further than 30° off vertical during uncrating or installation.
- Dispenser bin area contains mechanical, moving parts. Keep hands and arms clear of this area at all times. If access to this area is required, power to unit must be disconnected first.
- This appliance is not suitable for installation in an area where a water jet could be used.
- This appliance must not be cleaned by a water jet.
- User maintenance should not be done by children.
- Follett recommends a Follett water filter system be installed in the ice machine inlet water line (standard capacity #00130229, high capacity #00978957, carbonless high capacity #01050442).
- Prior to operation clean the dispenser in accordance with instructions found in this manual.
- Do not block air intake or exhaust.
- This appliance should be permanently connected by a qualified person in accordance with application codes.
- A qualified person shall provide a readily accessible disconnect device incorporated into the fixed wiring.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- This appliance can be used by children aged 8 years and above and persons with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children should be supervised to ensure that they do not play with the appliance.
- This appliance is designed for commercial use.
- **WARNING!** To avoid a hazard due to instability of the appliance, it must be fixed in accordance with the instructions.
- Warranty does not cover exterior or outside installations.
- To reduce risk of shock, disconnect power before servicing.
- Connect to potable water supply only.
- Ice is slippery. Maintain counters and floors around dispenser in a clean and ice-free condition.
- Ice is food. Follow recommended cleaning instructions to maintain cleanliness of delivered ice.

# Specifications

## Countertop



## Electrical

- 220 V, 60 Hz, 1 phase, 5.5A or 230 V, 50 Hz, 1 phase, 5.5A
- Connect to a dedicated circuit.
- Furnished with 7 ft (2 m) power cord.

## Ambient

Air temp*	100 F/38 C Max.	50 F/10 C Min. (Best performance below 80 F (27 C))
Water temp†	90 F/32 C Max.	45 F/7 C Min. (Best performance below 70 F (21 C))
Water pressure (psi/bar)	70/5 Max.	10/0.7 Min.

\* Ambient air temperature is measured at the air-cooled condenser coil inlet.

† Ambient water temperature is measured in the ice machine float reservoir.

## Plumbing

	Connections	Rough-ins
Dispenser drain	3/4" MPT	Air-cooled 3/4" FPT
Water inlet	3/8" FPT	3/8" FPT

**Note:** Water shut-off recommended within 10 ft. (3m) of dispenser. Drain to be hard-piped and insulated. Maintain at least 1/4" per foot (20 mm per 1 m) run of slope.

## Ventilation clearances

	Air-cooled
Required for ventilation	3" (77 mm) each side
Suggested for service	12" (30.5 cm) top, 6" (15.3 cm) left side

**Note:** Do not block left side air intake or right side air exhaust.

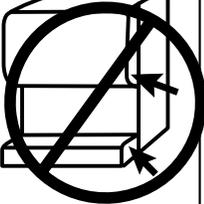
## Dry weight

- C/E25/50CI425 (countertop): 215 lbs. (98 kg)

# Installation

## Before you begin

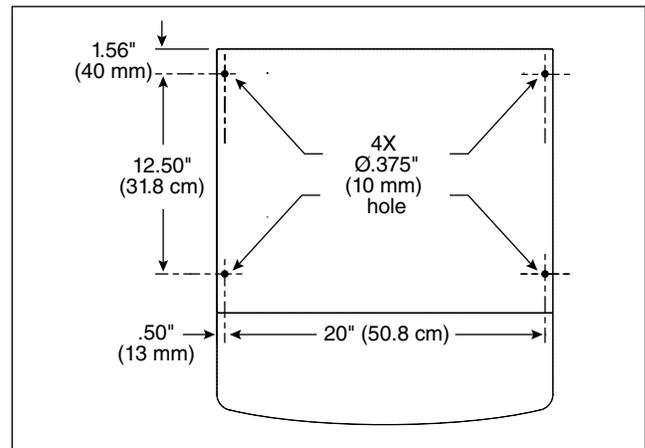
- All dispensers must be installed level in both directions to ensure proper operation.
- Provide proper ventilation clearances.
- Countertop units provide the option of taking utilities out bottom or back of dispenser (on countertop units with legs, utilities exit from back).
- Wall mount model utilities exit through back of dispenser only.
- Directions for each installation follow.

 <b>WARNING!</b>	
	<ul style="list-style-type: none"><li>▪ DO NOT LIFT UNIT AT THESE POINTS. Panels will not support weight of unit</li><li>▪ Failure to follow warning may result in equipment damage or personal injury</li></ul>

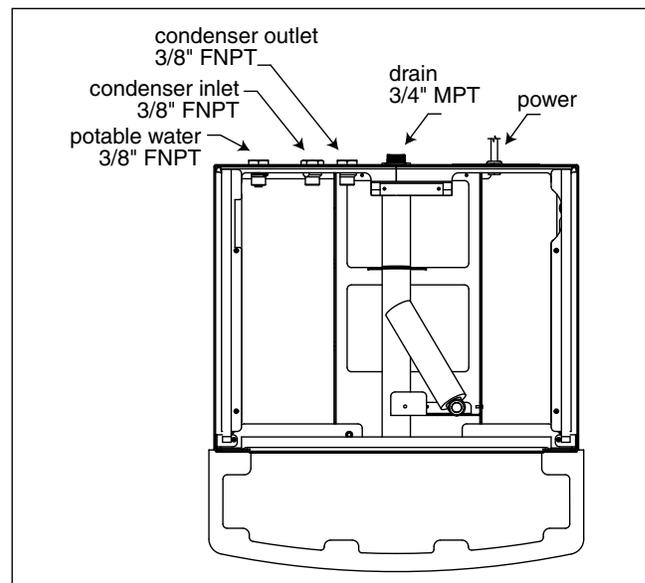
## Installing countertop dispensers with rear exiting utilities (no legs)

1. Position dispenser in desired location.
2. Mark dispenser outline on counter and remove dispenser.
3. Drill four 7/16" holes in counter to anchor dispenser to counter (**Fig. 1**).
4. Apply a thick bead approximately 1/4" (7 mm) diameter of NSF listed silicone sealant (Dow Corning® RTV-732 or equivalent) 1/4" (7 mm) inside marked outline of dispenser.
5. Reposition dispenser on counter and secure to counter with four 3/8"-16NC bolts.
6. Smooth excess sealant around outside of dispenser.
7. Make utility connections (**Fig. 2**).
8. Turn on water supply and check for leaks.
9. Clean dispenser and ice machine before putting into service.
10. Turn power on and allow ice machine to produce ice.

**Fig. 1** Countertop anchoring locations



**Fig. 2** Utility connections as viewed from top for countertop back access



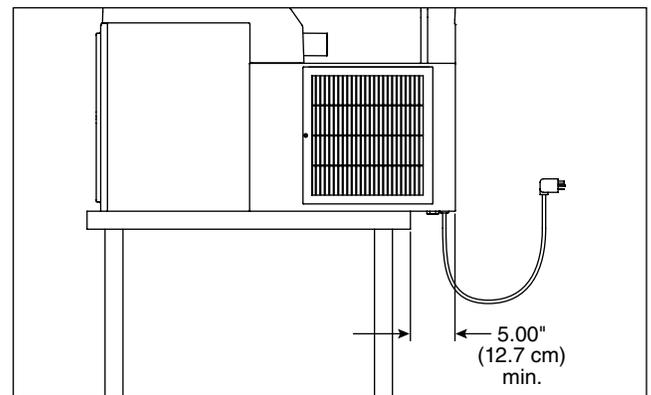
## Installing countertop dispensers with bottom exiting utilities

### **WARNING!**

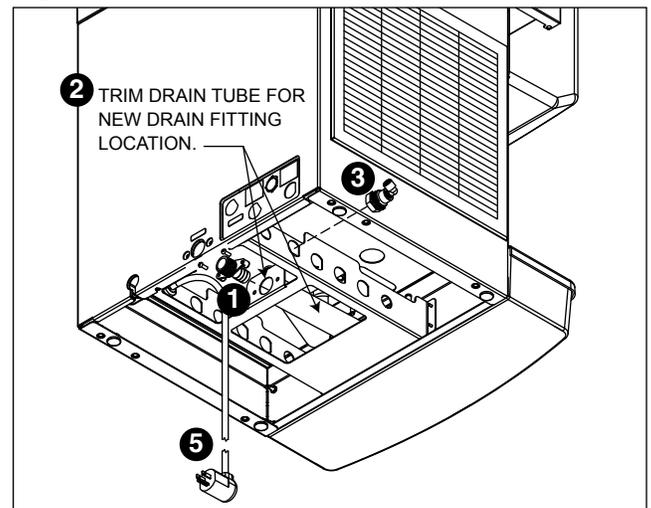
- A sturdy work surface capable of supporting the entire dispenser must be used.
- The work surface must be large enough to accommodate height of dispenser.
- Failure to provide proper support may result in personal injury.

1. Position dispenser with dispense chutes facing upward on sturdy work surface (**Fig. 3**).
2. Move drain fitting from back of dispenser and mount (**Fig. 4.1**).
3. Cut drain tube to length and attach to barbed connection (**Fig. 4.2**).
4. Move inlet water fitting from back of dispenser and mount (**Fig. 4.3**).
5. Cut water tubing to length and re-insert into water fitting.
6. Remove the drain plug from the internal drain line connection point and relocate to back of dispenser and reconnect.

**Fig. 3**

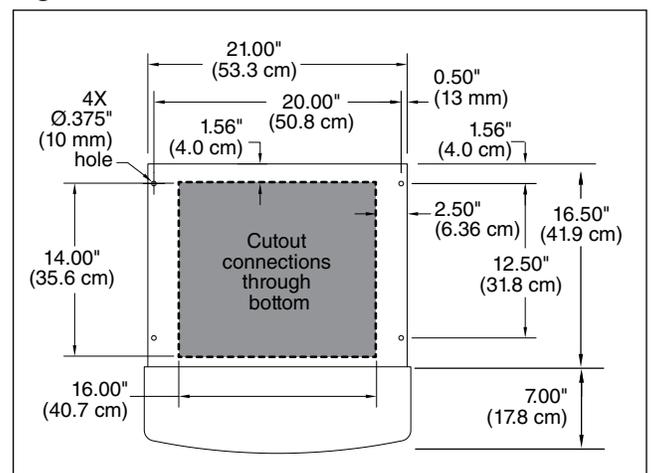


**Fig. 4**



7. Raise the dispenser upright and position in desired location.
8. Mark dispenser outline on counter and remove dispenser.
9. Cut countertop utility opening and drill four 7/16" holes to anchor dispenser to counter (**Fig. 5**).
10. Apply a thick bead approximately 1/4" (7 mm) diameter of NSF-listed silicone sealant (Dow Corning\* RTV-732 or equivalent) 1/4" (7 mm) inside marked outline of dispenser.
11. Reposition dispenser on counter and secure to counter with four 3/8"-16NC bolts.
12. Smooth excess sealant around outside of dispenser and make utility connections through countertop cutout.
13. Turn on water supply and check for leaks.
14. Clean dispenser and ice machine.
15. Turn power on and allow ice machine to produce ice.

**Fig. 5**



## User information

### How the dispenser works

Follett's 25/50CI series automatic-load ice and water dispensers are equipped with Follett's 425 lb (181kg)/day ice machine. In the continuous icemaking process, water freezes to the inside wall of the evaporator. A rotating stainless steel auger carries the ice to the top of the evaporator where it is compressed and extruded through an outlet port. The ice is then pushed through a tube to the storage hopper. When the hopper is full, a bin thermostat opens and shuts the ice machine off. When the dispense mechanism is activated, a dispense motor is turned on, causing the wheel to turn. This moves ice to the dispense chute where it drops by gravity into the container held below the chute.

### How SensorSAFE infrared dispensing works

Follett's SensorSAFE infrared dispensing maximizes sanitation and minimizes the possibility of cross-contamination by eliminating physical contact between the cup or container and dispenser. Sensors in the panel use reflected infrared light to detect the presence of the container and send a signal to a control board which then activates the appropriate components for ice or water dispensing.

The SensorSAFE infrared dispensing package includes a cleaning switch under the left side of the front cover which temporarily shuts off dispensing to allow cleaning of the panel and lenses. If the switch is not turned back on after cleaning, the dispenser automatically resets after two minutes for normal operation.

SensorSAFE infrared dispensing also includes a time limit safety feature which automatically stops ice dispensing after one minute of continuous dispensing. Dispensing can be resumed by moving the container away from the dispenser and returning it to the activation zone.

## Cleaning

Follett ice machines and dispensers, and their associated cleaning and sanitizing procedures, are designed for use with potable water sources. The presence, or suspected presence, of infectious agents may call for additional measures, including the replacement of components and more comprehensive disinfection measures. Follett recommends that these cleaning and sanitizing procedures be reviewed with the appropriate infectious agent subject matter experts to assure complete remediation.

Periodic cleaning of Follett's ice and water dispenser and ice machine system is required to ensure peak performance and delivery of clean, sanitary ice. The recommended cleaning procedures that follow should be performed at least as frequently as recommended and more often if environmental conditions dictate.

Follett recommends sanitizing the pressurized water lines prior to cleaning the ice machine/dispenser. Follett offers two kits: order P/N 01089572 when a Follett filter system with a pre-filter bowl is present, or P/N 01089580 when a Follett filter system is not present. Follow the instructions provided with the respective kits to sanitize the pressurized water lines immediately before cleaning the ice machine/dispenser.

Cleaning of the condenser can usually be performed by facility personnel. Cleaning of the ice machine system should be performed by your facility's trained maintenance staff or a Follett authorized service agent. Regardless of who performs the cleaning, it is the operator's responsibility to see that this cleaning is performed according to the schedule below. Service problems resulting from lack of preventive maintenance will not be covered under the Follett warranty.

#### Recommended cleaning intervals\*

Symphony Plus	Frequency
Drain Line	weekly
Drain Pan/Drip Pan	weekly
Exterior, Water Station Tube	as needed
Condenser	monthly (air-cooled only)
Dispenser and Components	semi-annually
Ice Machine	semi-annually
Transport Tube	semi-annually
Ice Storage Area/Bin	semi-annually
Pressurized Water Sanitizing	semi-annually

\* Ice machine and dispenser must be cleaned prior to start-up.

## Weekly

### CAUTION!

- Do not use solvents, abrasive cleaners, metal scrapers or sharp objects to clean any part of the dispenser.

#### **Dispenser drain pan and drain line**

- Pour 1 gal. (3.8 L) of hot tap water into drain pan to flush drains.

#### **Splash panel front, SensorSAFE™ infrared dispensing**

1. Deactivate dispensing by pressing and releasing clean switch located on left side of unit under top front cover.
2. Clean lens and splash panel front using a soft cloth and mild, non-abrasive, non-chlorine based cleaner.
3. Reactivate dispensing by pressing and releasing clean switch again.

## Monthly

### CAUTION!

- Do not use solvents, abrasive cleaners, metal scrapers or sharp objects to clean any part of the dispenser.

#### **Condenser (air-cooled ice machine only)**

- Use a vacuum cleaner or stiff brush to carefully clean condenser coils of lint and debris to ensure optimal performance.

#### **Semi-Annually (more often if conditions dictate)**

- A cleaning procedure should always include both the ice machine and dispenser.
- Icemaking system can be cleaned in place.

### CAUTION!

- Wear rubber gloves and safety goggles (or face shield) when handling SafeCLEAN Plus™ and IMS-III solutions.
- Use only Follett approved cleaners.
- Do not use solvents, abrasive cleaners, metal scrapers or sharp objects to clean any part of the dispenser.

#### **Cleaning Tool Checklist**

- (1 or 2) 1.5 gallon (or larger) plastic bucket
- (2) clean cloths
- Sanitary gloves
- Safety glasses
- (2) SaniSponge™ (P/N 00131524 - single sponge)
- SafeCLEAN Plus ice machine cleaner

**SafeCLEAN Plus Solution:** Follow the directions on the SafeCLEAN Plus packaging to mix 1 gal. (3.8 L) of Follett SafeCLEAN Plus solution. Use 100 F (38 C) water.

## Ice Machine and Dispenser

### Cleaning Procedure

**Note:** Check drains and drain cup to ensure they are open and flowing freely.

1. If ice machine was running recently, ensure that the evaporator is completely free of ice before proceeding. If there is ice in the evaporator, complete steps 2-7 using only hot water to remove the ice, then begin Cleaning Procedure again.
2. Remove front cover and turn **OFF** bin signal switch.
3. Dispense all ice from storage hopper and discard.
4. Remove splash panel.
5. Press **CLEAN** switch. The **MAINTENANCE** light will turn on and the machine will drain. Wait for the **LOW WATER** light to turn on.
6. Remove lid from cleaning cup and fill (about 1 quart) until SafeCLEAN Plus solution completely fills the reservoir. Place lid back on cup. Save remainder of SafeCLEAN Plus solution.
7. **CLEANER FULL** light will turn on and machine will start cleaning cycle, then rinse three times; this process takes approximately 15 minutes.
8. While ice machine is cleaning, clean dispenser as follows:
  - a. Turn **OFF** dispenser power.
  - b. Remove hopper lid.
  - c. Remove knurled nuts from front of storage hopper.
  - d. Remove stud assembly, baffle, wheel, and any remaining ice.
  - e. Remove dispense chutes from splash panel.
  - f. Submerge drain grille in SafeCLEAN Plus solution and allow to soak to remove any scale buildup.
  - g. Wipe inside of hopper lid, stud assembly, baffle, wheel, inside of storage area, dispense chutes, drain grille and drain pan with damp cloth wrung out in SafeCLEAN Plus solution. Thoroughly rinse all parts with damp cloth wrung out with clean water.

**Note:** To avoid possible damage to motor assembly, only use a damp cloth to clean storage hopper. Do not allow water to run through motor shaft hole in bottom of hopper.
9. When machine is finished cleaning, the **MAINTENANCE** light will turn off.
10. Reinstall dispense chutes, wheel, baffle, stud assembly and knurled nuts.
11. Remove top bearing insulation. Loosen Phillips-head screw on nozzle connected to evaporator. Remove nozzle from evaporator side only, leave other side of nozzle connected to transport tube.
12. Soak one SaniSponge in remaining SafeCLEAN Plus solution.
13. Insert the sponge soaked in cleaning solution into nozzle, then insert a dry sponge into the nozzle.
14. Replace nozzle onto evaporator and tighten screw. Ensure drain is connected to reservoir and vent tubes are connected to evaporator drain pan. Replace top bearing insulation.
15. Turn **ON** bin signal switch. Wait for ice to push sponges through transport tube.
16. Collect sponges from ice storage bin.
17. Replace hopper lid, machine top, turn **ON** dispenser power and install front cover.
18. After 10 minutes, dispense all ice and discard.

### User Interface and Exterior Cabinet

- Clean stainless steel panels with stainless steel cleaner.

## Service

### Ice machine Operation (all models)

Follett's ice machine consists of four distinct functional systems:

- Harvesting system
- Water system
- Electrical control system
- Refrigeration system

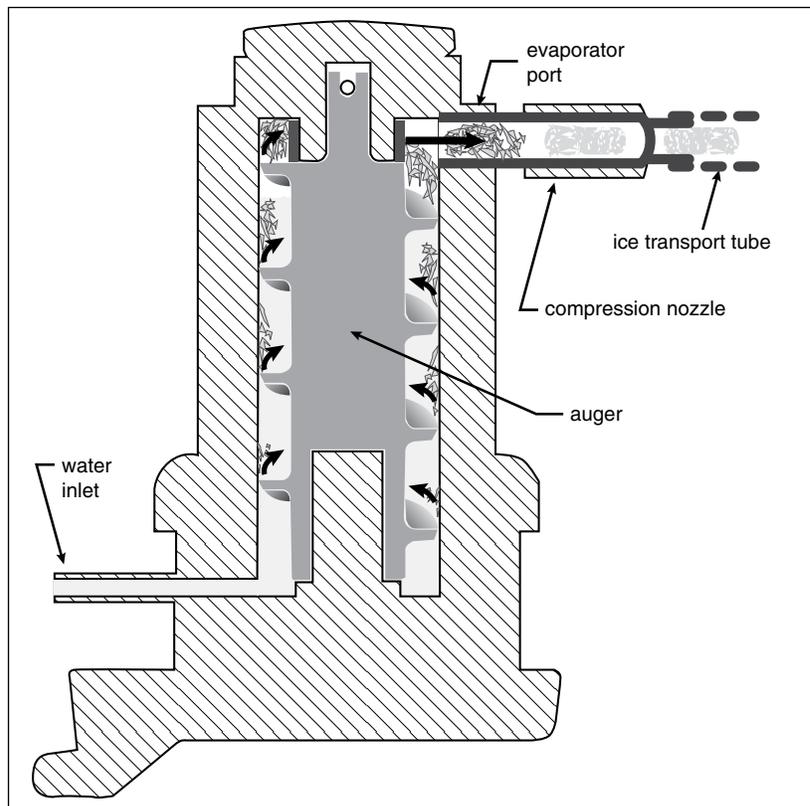
These four systems work together to accomplish the production and harvesting of ice. A problem in any one of these systems will result in improper operation of the entire ice production cycle. When troubleshooting the ice machine, it is important to analyze the entire system operation to determine which system is not functioning properly, then pinpoint the component within that system that is malfunctioning. Determine what corrective action must be taken before making any adjustments or replacing any components.

### The icemaking process

The Maestro Plus ice machine uses a stainless steel jacketed evaporator and operates on a continuous freezing cycle. Water is supplied to the evaporator from the water reservoir where the water level is controlled by conductivity probes.

When the ice machine is running, a layer of ice forms on the interior surface of the evaporator. This ice is continuously removed by a slowly rotating (12 RPM) auger. The auger carries the ice upward into the cavity formed by the top bearing housing and the compression loop, where it is compressed to remove excess water. When the ice reaches the desired hardness it rotates within the cavity and is forced through a discharge port and compression nozzle and into the ice transport tube. The discharge tube and compression nozzle are slightly restricted to further compress the ice and produce the desired hardness.

A solid state control board located in the electrical box of the ice machine controls the normal operation of the ice machine and monitors gearmotor torque. This control board will shut down the ice machine should an over-torque condition occur. It is very important that you familiarize yourself with the operational sequences detailed in this manual before attempting to service the ice machine.



## Water system

The water level in the evaporator is controlled by a fill solenoid (**Fig 6**) and level detecting sensors. Water sensing rods (**Fig. 7**) extend down into the reservoir at the end of the evaporator assembly. The system works via electrical conductivity as follows:

One of the longest probes is a common. When water is between any of the other probes and the common, the PC board will sense the activation. During normal operation, the water level rises and falls between the Normal High and Normal Low sensors. As water is consumed to make ice, the level will fall until the Normal Low sensor is exposed, triggering the water feed solenoid on. Water will fill until the Normal High sensor is activated.

**Note:** The potable water dissolved solids content must be greater than 10 ppm for the water control system to function properly. If using reverse osmosis water filtration system, ensure T.D.S level is greater than 10 ppm.

**Fig. 6 – Water system diagram**

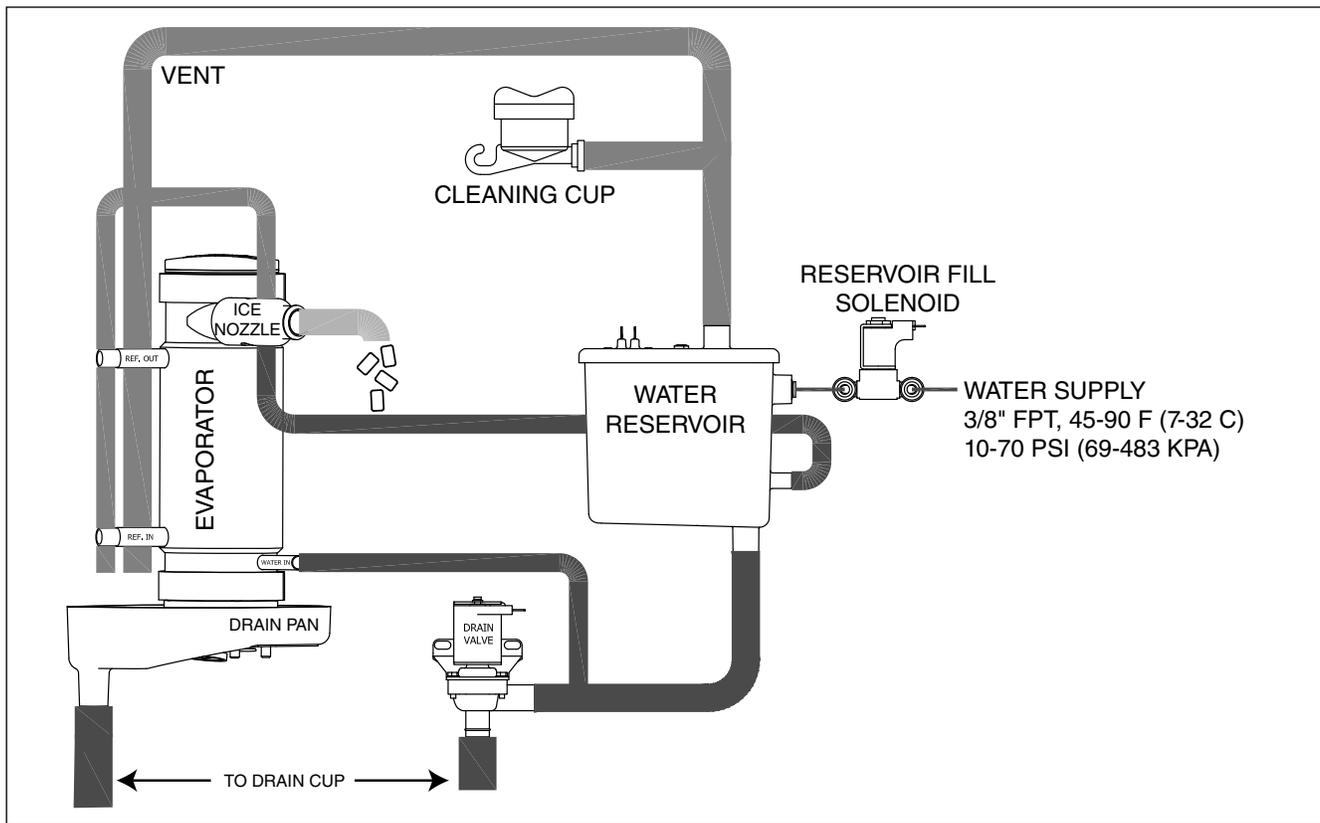
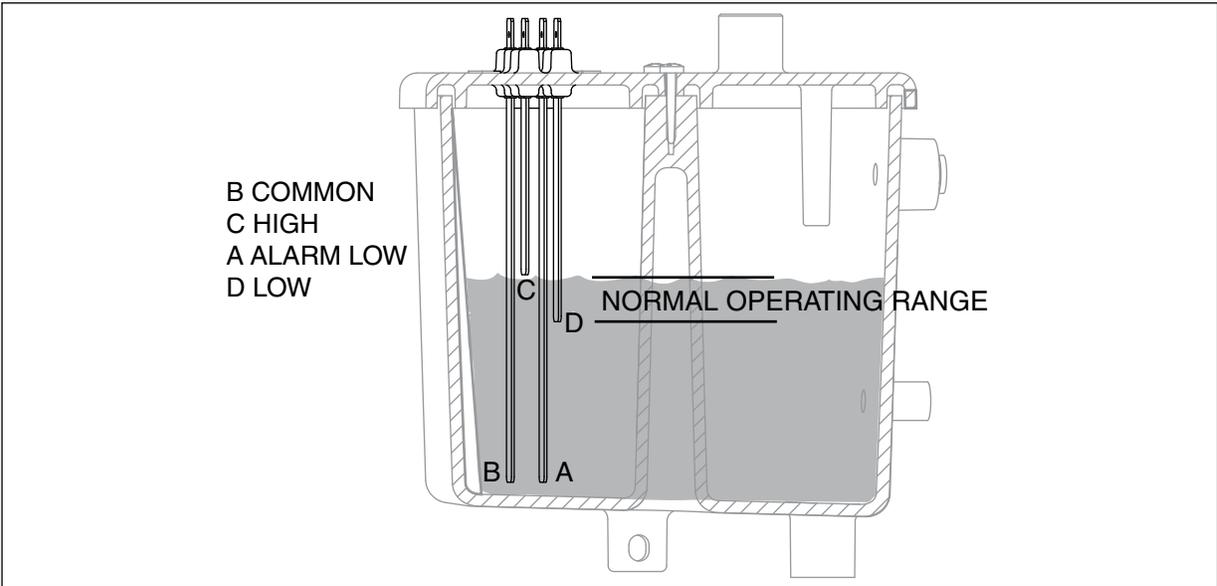


Fig. 7 – Water level diagram

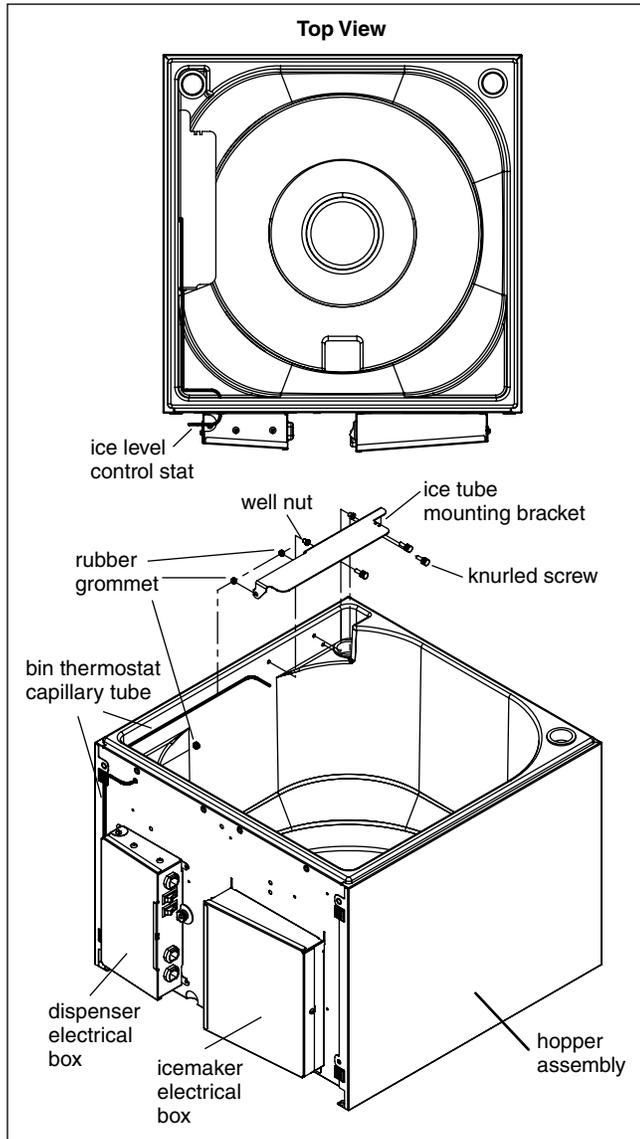


## Electrical box and control board

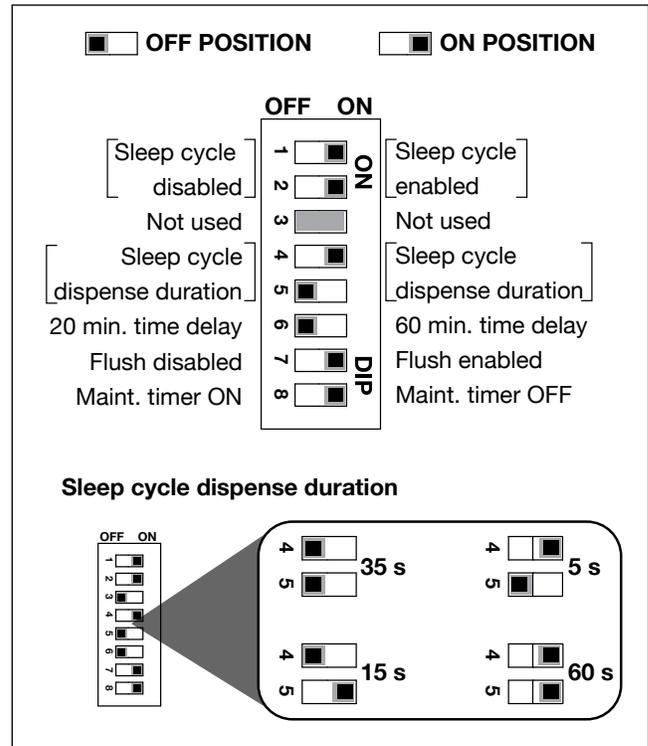


- Disconnect power to unit before putting hands or arms in storage area or attempting any repair or service to equipment.

**Fig. 8 – Electrical component locations**

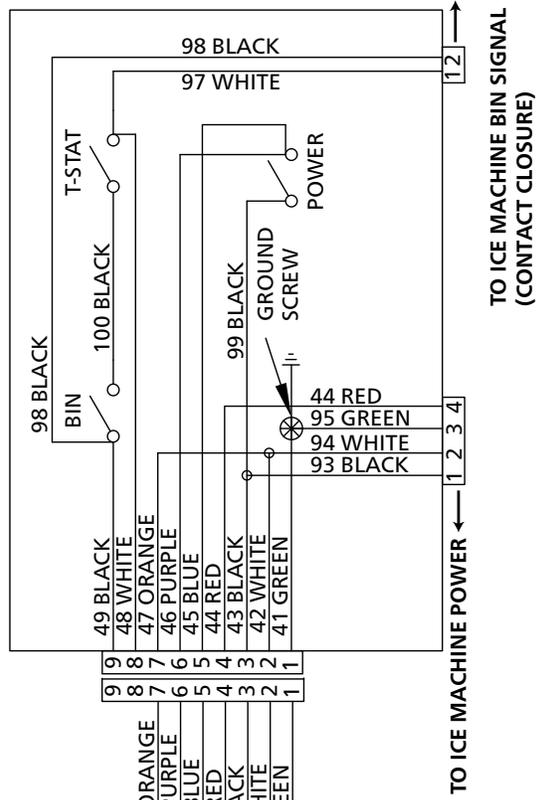


**Fig. 9 – Control board dip switch settings**

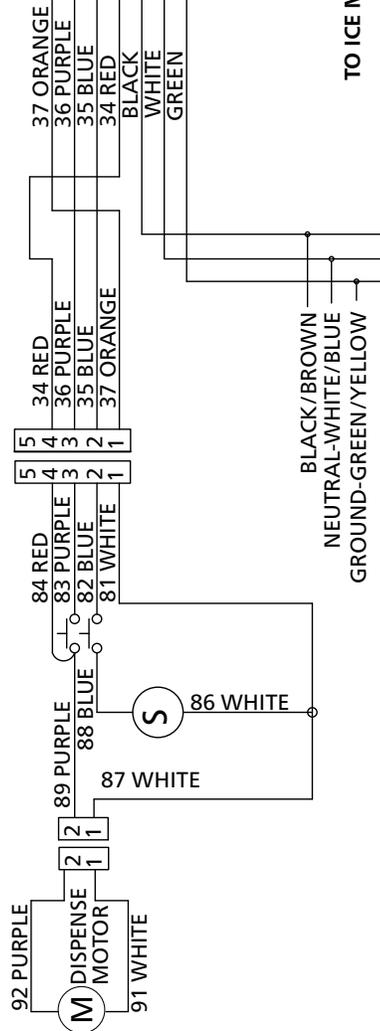


Wiring diagram - Lever

LEVER DISPENSERS  
CONTROL BOX



LEVER DISPENSERS  
SPLASH PANEL





## Ice machine operational and diagnostic sequences

The wiring diagrams that follow illustrate the circuitry of Follett ice machines used with 25/50 series ice dispensers. Both normal operation (stages 1—8) and non-normal diagnostic sequences showing torque-out for use in troubleshooting are shown.

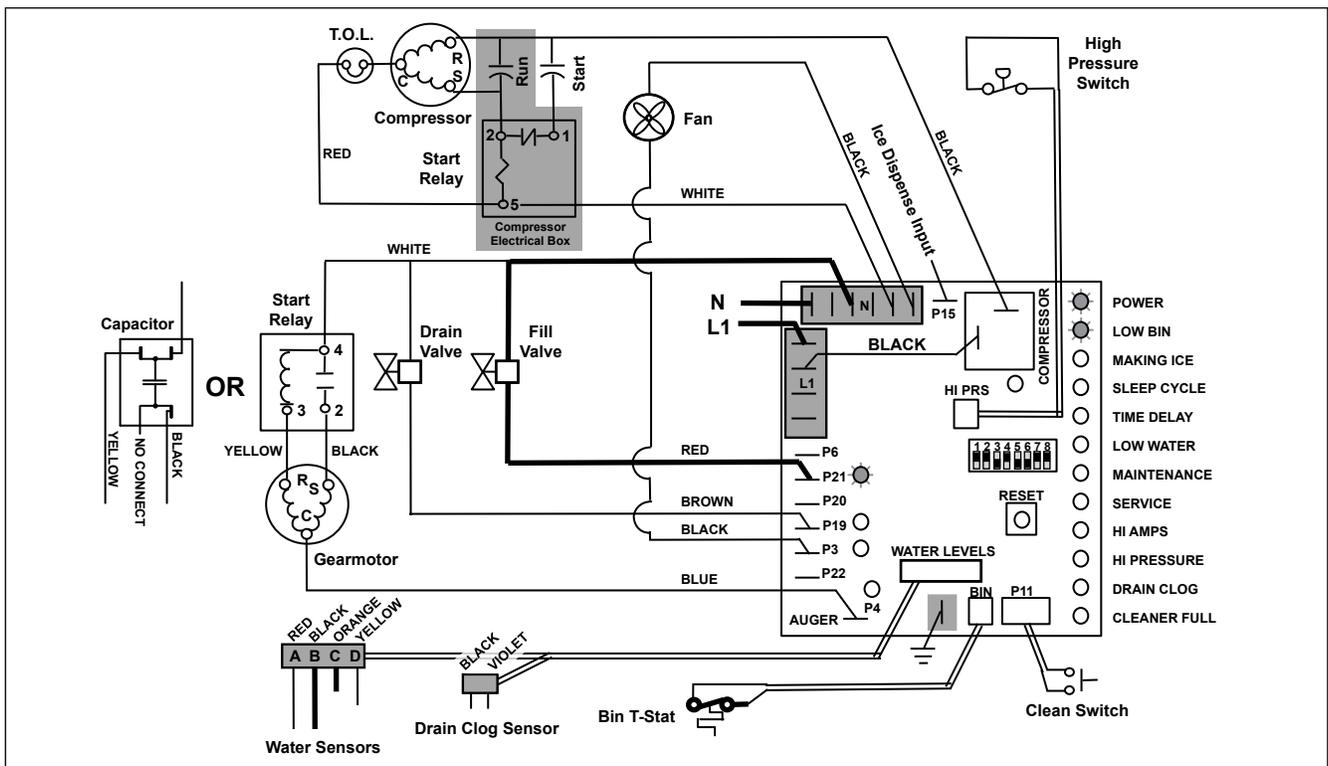
### Circuitry notes

- Bin signal is contact closure only — **DO NOT SUPPLY POWER.**

**Note:** The operation stage descriptions that follow are based on the unit containing the split-phase gear motor.

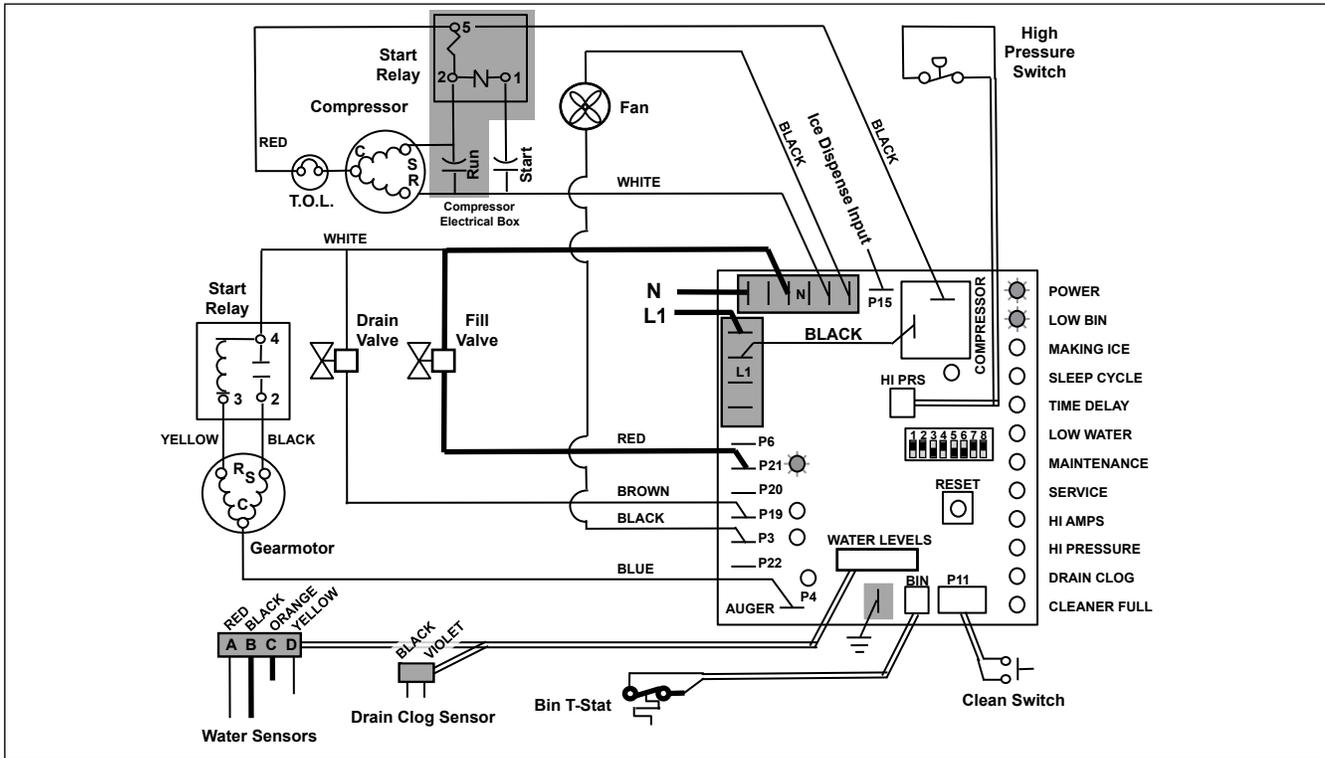
### Normal operation – Stage 1 - 230V 50 Hz

Power is supplied to L1 of the control board, the **POWER** LED light begins flashing. The ice level bin thermostat in the dispenser is closed and calling for ice, supplying contact closure to the control board. The **LOW BIN** LED will be on. The control board will now go through the start-up sequence. The board checks the water sensors (located in the reservoir) for continuity between the common probe (B) and the high probe (C). If continuity is not sensed, the water fill valve (P21) is energized.



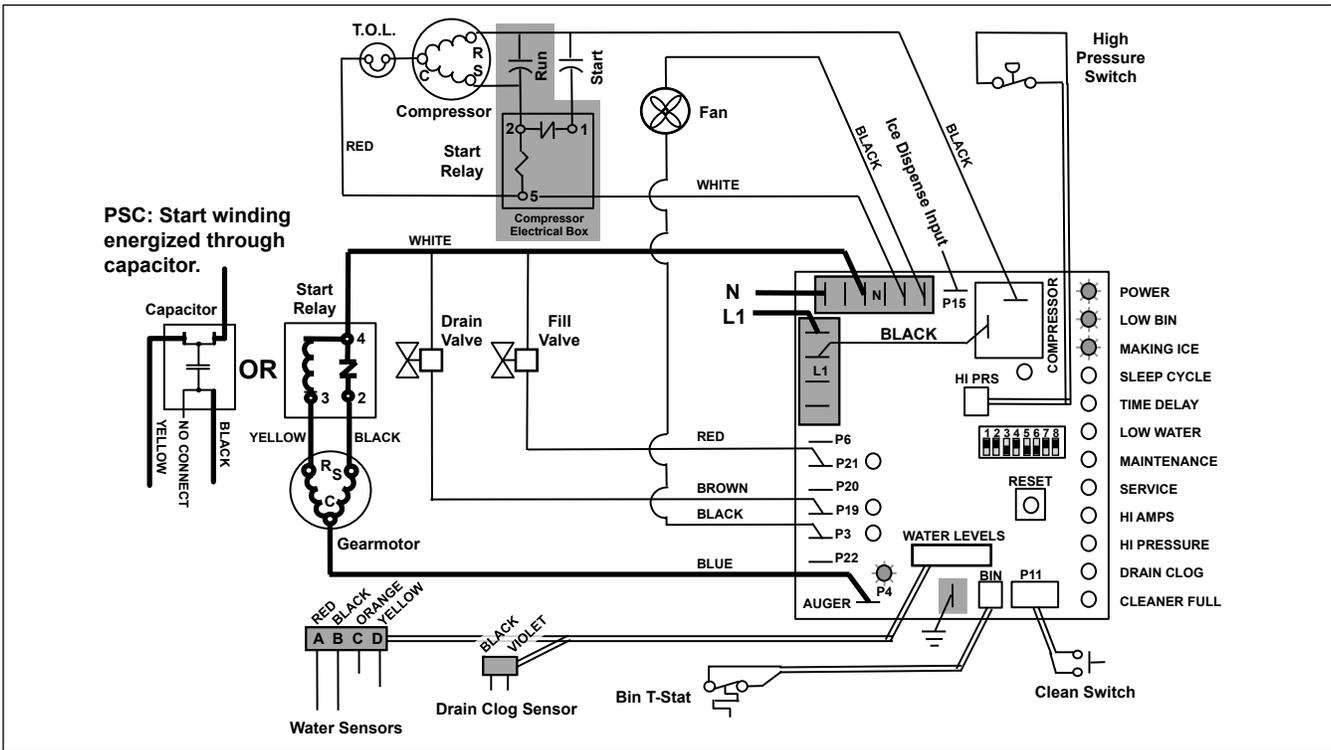
### Normal operation – Stage 1 - 220 V 60 Hz

The 220 V 60 Hz is identical to the 230 V 50 Hz EXCEPT that the compressor output and neutral are reversed, as shown in the diagram below. The remaining Stages show only the 230 V 50 Hz applications.



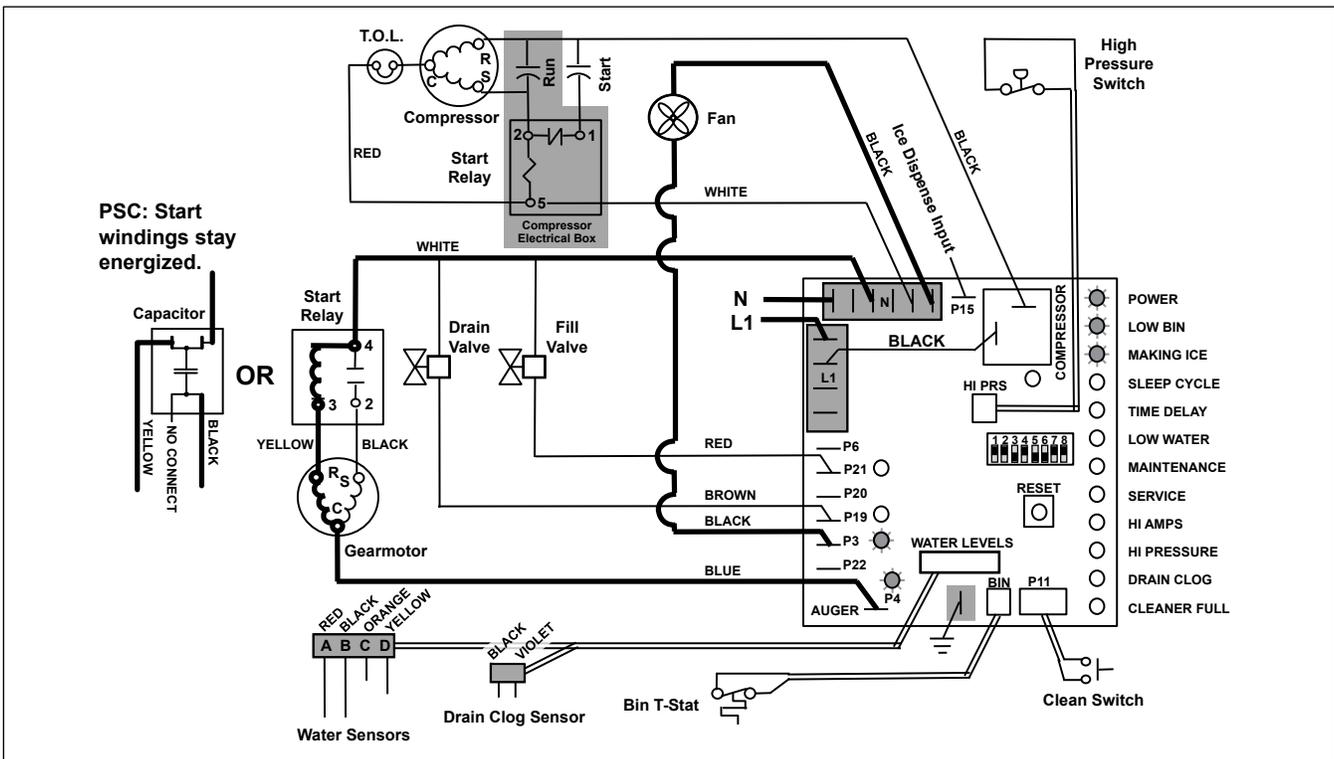
### Normal operation – Stage 2

When continuity is seen between B and C, the water valve de-energizes, the AUGER output (P4) comes on along with the **MAKING ICE** LED. The auger gearmotor's start windings are energized through a current style start relay that is pulled in by the initial high current draw of the gearmotor.



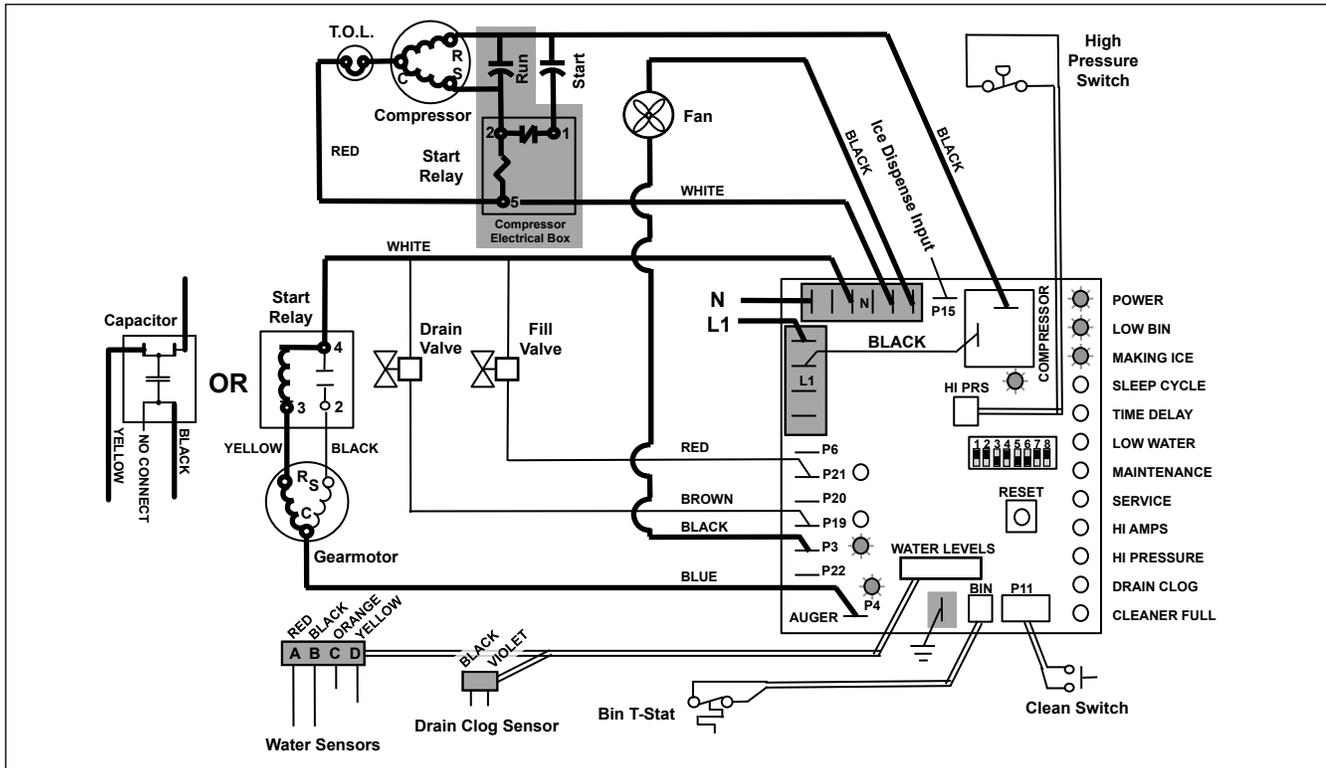
### Normal operation – Stage 3

After the initial high current draw drops off, the gearmotor start relay contacts open, dropping out the start winding. The condenser fan output (P3) comes on 0.5 seconds later.



### Normal operation – Stage 4

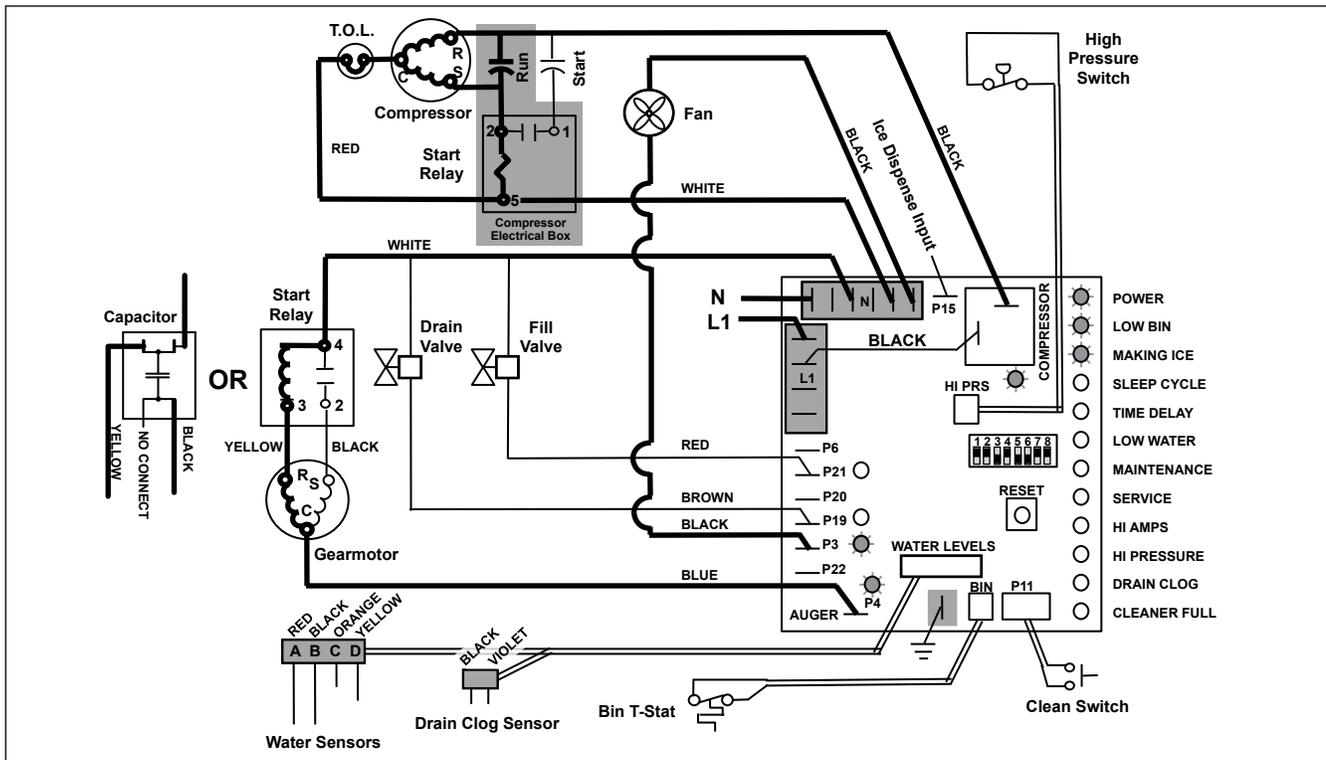
One second (1 s) after the fan comes on, the **COMPRESSOR** output comes on. The compressor circuit uses both run and start capacitors along with a potential start relay. The start capacitor is energized through the normally closed contacts of the start relay.



### Normal operation – Stage 5

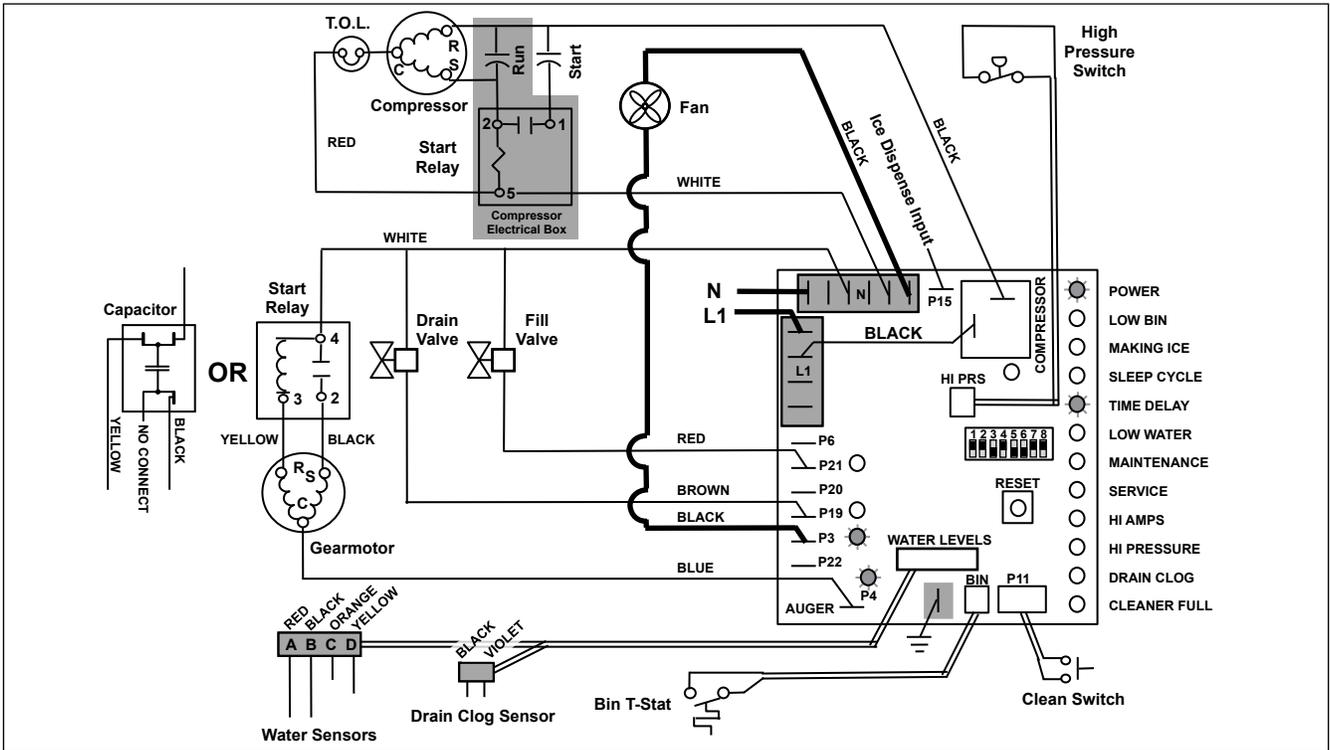
As the compressor comes up to normal running speed, its start winding generates a voltage potential across the relay's coil. This energizes the coil to open the contact and drop out the start capacitor.

The ice machine is now in a normal ice making mode. The ice machine will produce ice until the bin level control in the ice dispenser is satisfied.



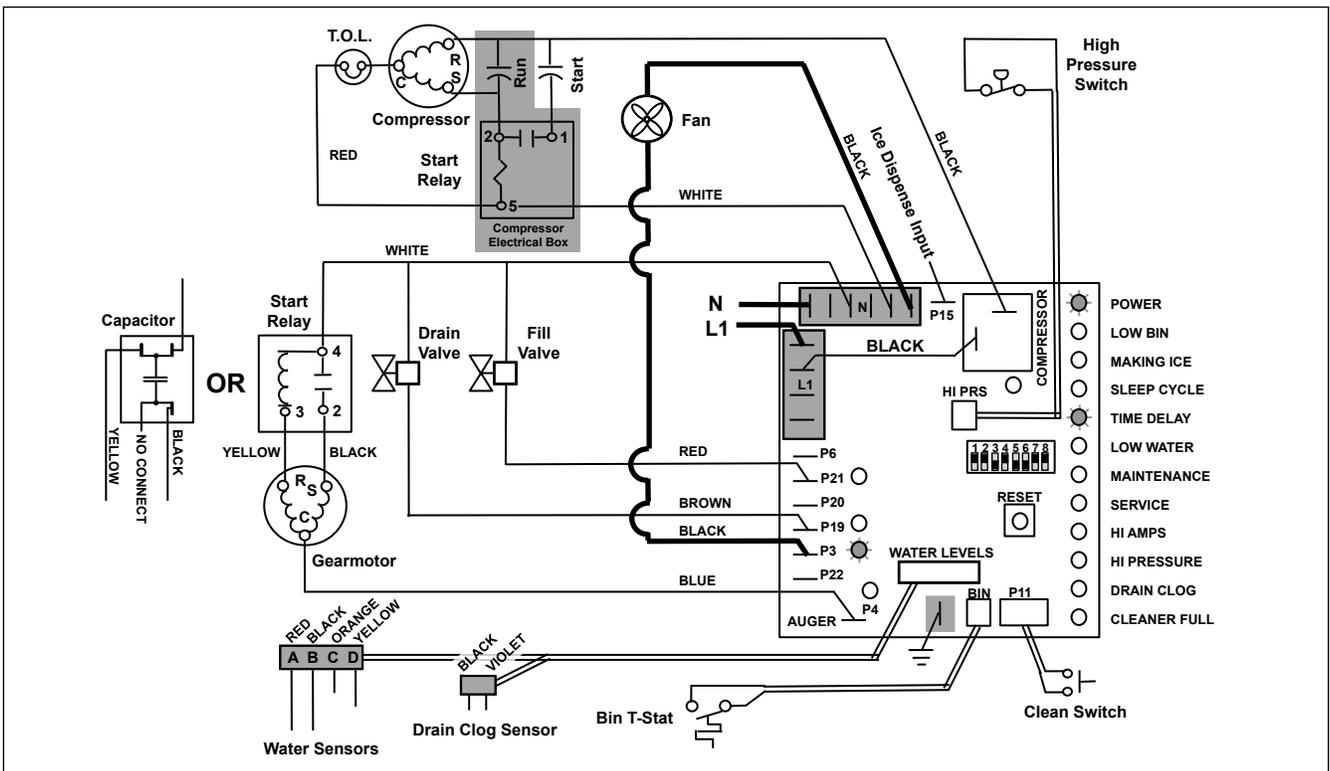
### Normal operation – Stage 6

Once the bin thermostat control opens, the **LOW BIN** LED goes out. The compressor and gear motor outputs turn off, the **MAKING ICE** LED goes out and the **TIME DELAY** LED comes on . .



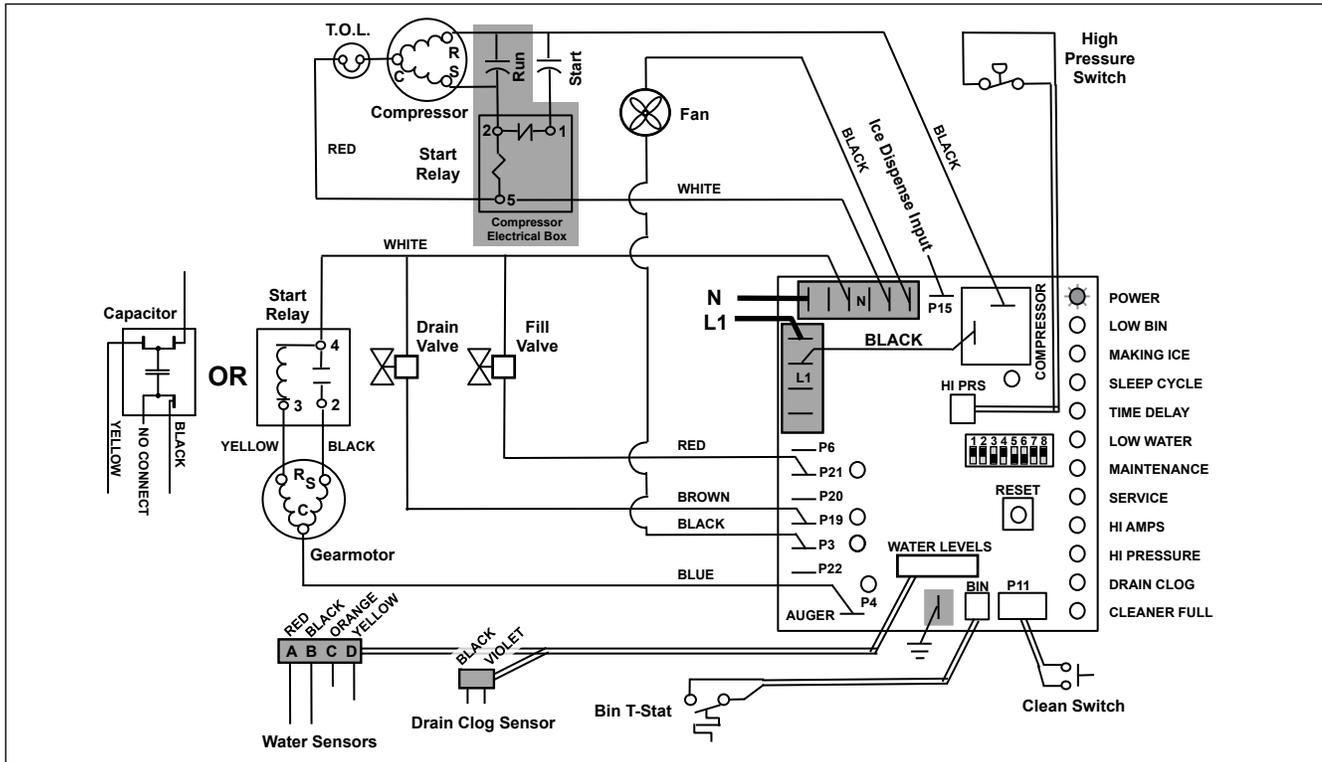
### Normal operation – Stage 7

The fan motor continues for 10 minutes before shutting off. The **TIME DELAY** LED remains on for 20 minutes. The ice machine will not start while the **TIME DELAY** LED is on. To restart the ice machine for troubleshooting purposes, depress the reset button to clear the control board.



## Normal operation – Stage 8

When the dwell time of 20 minutes has expired, the **TIME DELAY** LED goes off. If 5 seconds of ice has been dispensed and the **SLEEP CYCLE** LED (Symphony Plus only) is off, the ice machine will go through the normal start-up sequence when the bin level control signals the control board for ice.

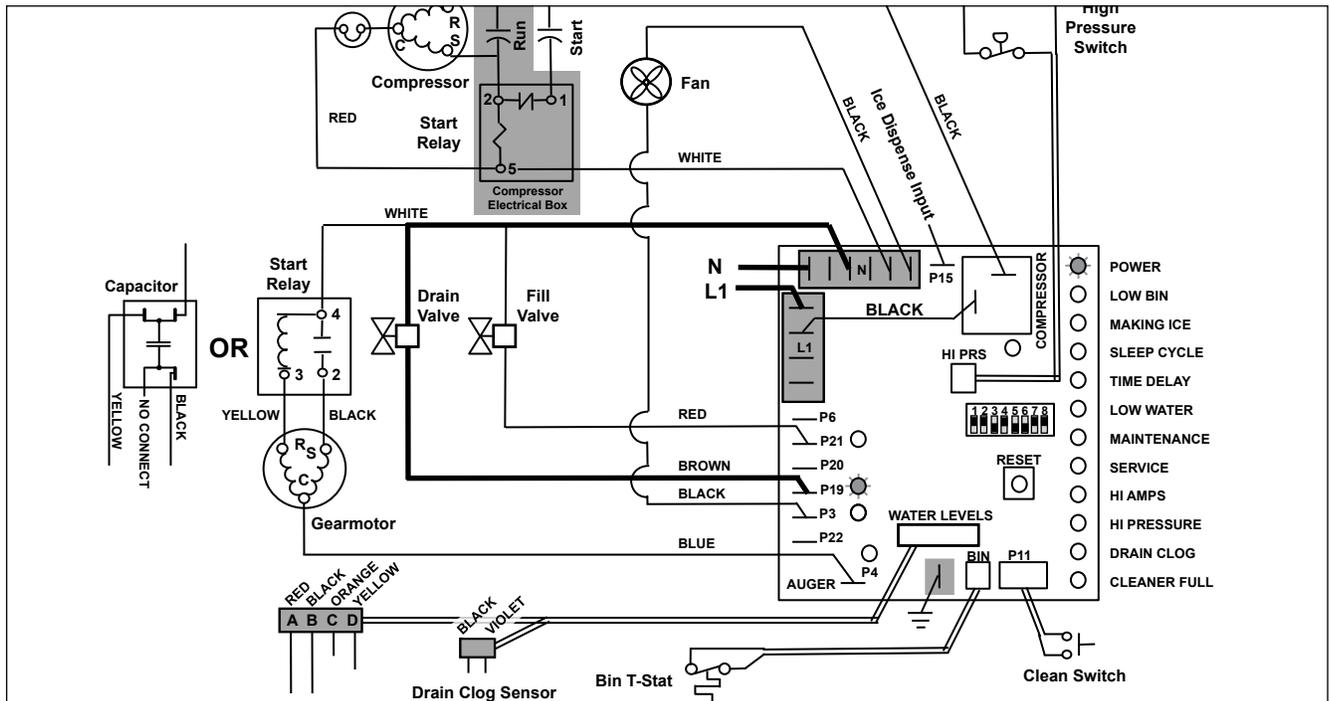


## Quiet Night/Sleep cycle (Symphony Plus only)

The board monitors ice dispensing through a line voltage input to P15. If the ice dispense has not be initiated for more than 5 seconds during the 20 minute time delay, the **SLEEP CYCLE** LED comes on. The machine will stay off for 12 hours unless 5 seconds of dispensing is seen. After 12 hours, the **SLEEP CYCLE** LED goes out and the ice making will resume if the bin thermostat is closed. The sleep cycle dispense duration is adjustable using the DIP switches on the control board.

## Self-flushing (when enabled)

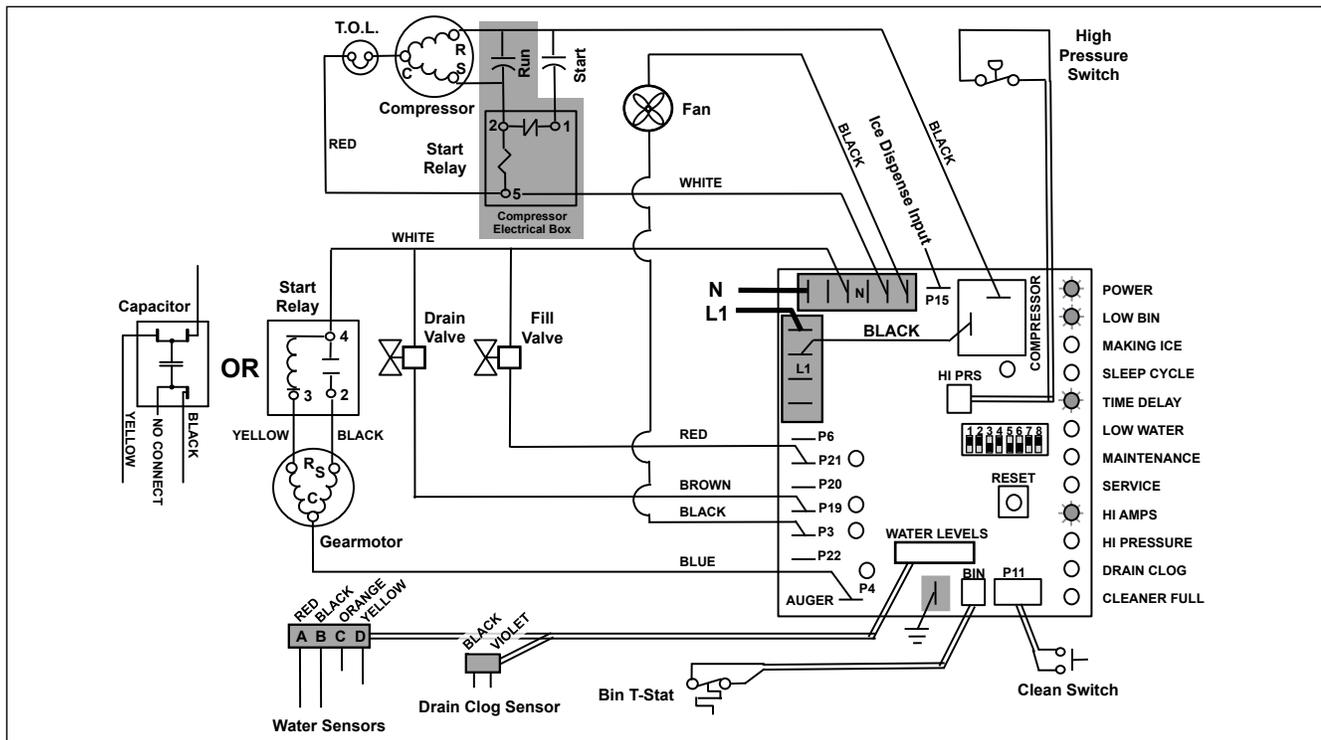
At the completion of the 20 minute time delay, the machine checks for a cumulative one hour of ice making time since the last off-cycle flush. If the cumulative ice making time exceeds one hour, the machine will energize the drain valve P19 for 60 seconds to drain the evaporator. It will then refill with water, flush again, refill and begin making ice if the **LOW BIN** LED is on. If the ice making time is less than 1 hour, the machine will start and begin making ice without draining the evaporator.



## Diagnostic Stages

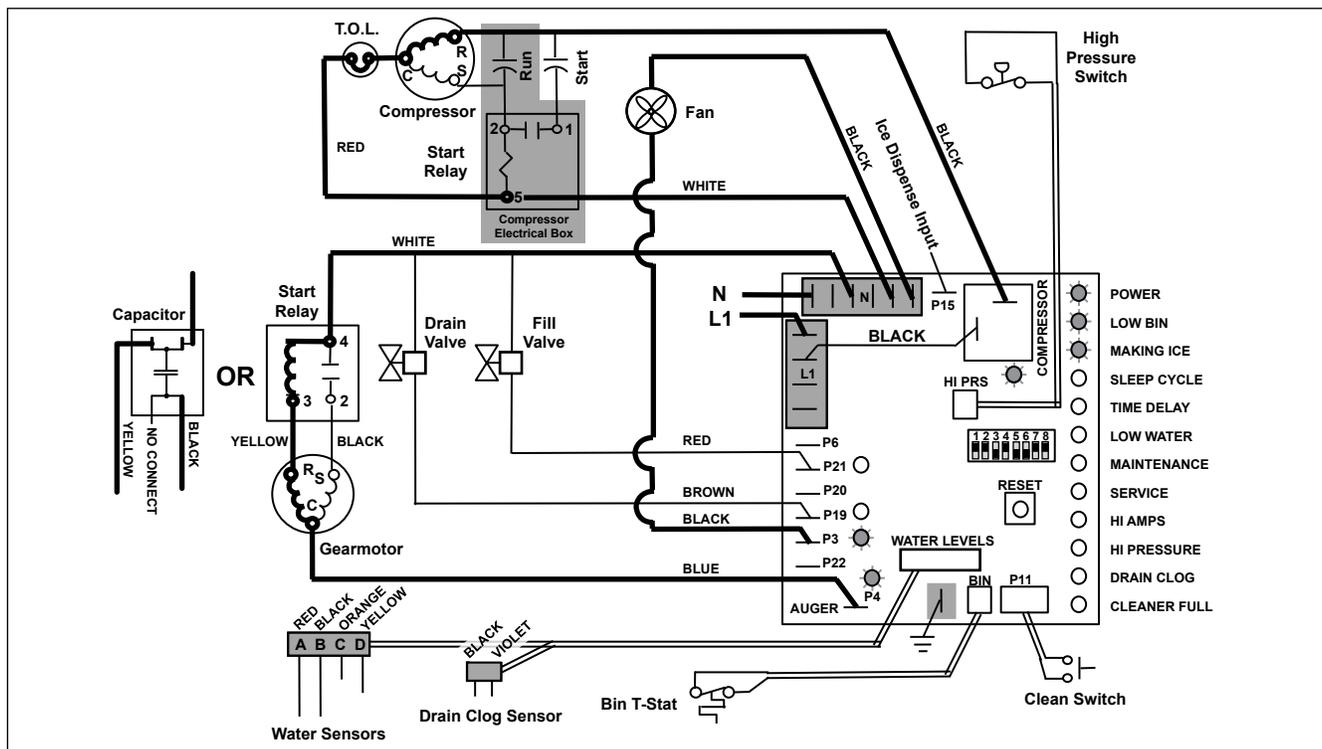
### High gearmotor amps – Stage 1

The **HI AMPS** error and **TIME DELAY** LEDs are on indicating that the control board has sensed an over-torque condition at the P4 terminal (more than 3 amps from the gearmotor) or no current draw (0A) and shut the ice machine down (strike one). The **HI AMPS** and **TIME DELAY** LEDs will remain on for 60 minutes after an over-torque condition has occurred. The ice machine will remain off as long as these two LEDs are on. After the 60 minute time delay, these LED lights turn off, and the control board will try to go through a normal start-up sequence.



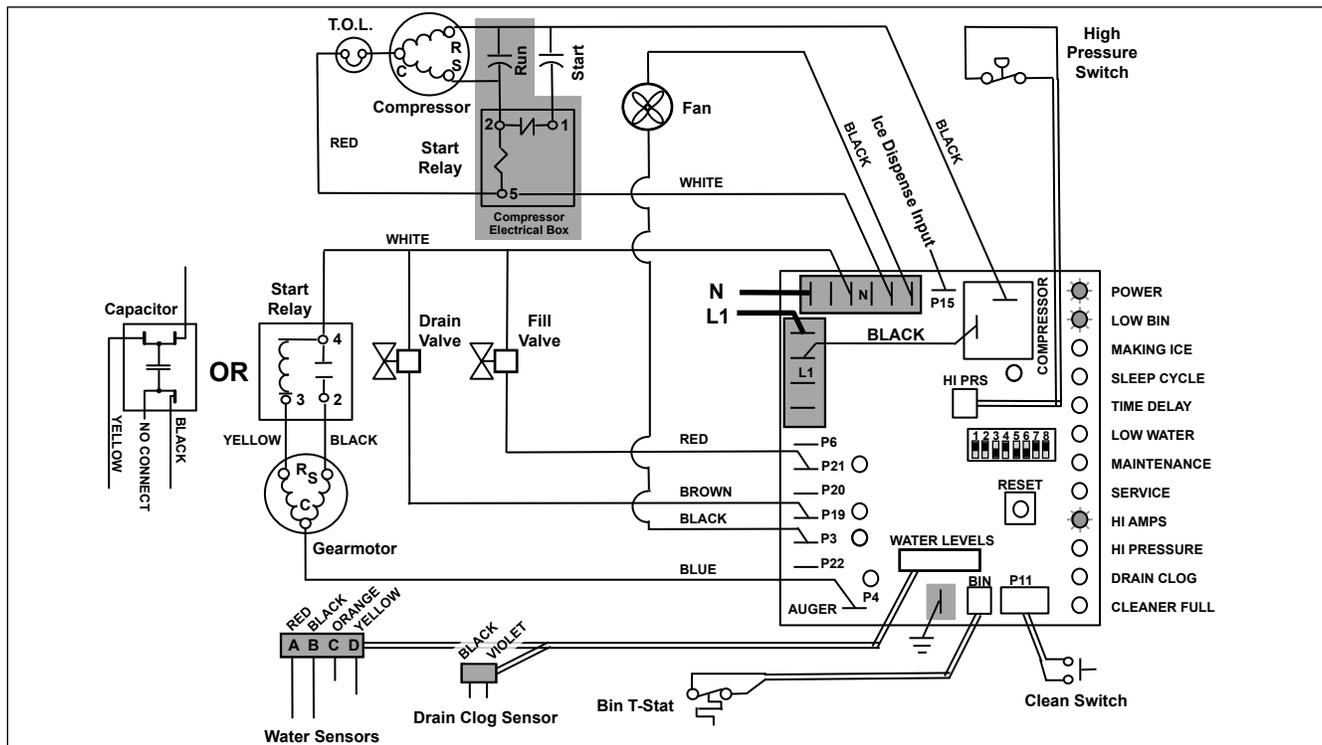
### High gearmotor amps – Stage 2

If the restart is successful the board will continue to monitor the current draw on P4 for 60 minutes looking for a second high amps (above 3A) occurrence. If the ice machine runs without problems for 60 minutes and no additional torque errors occur, the ice machine will continue normal operation.



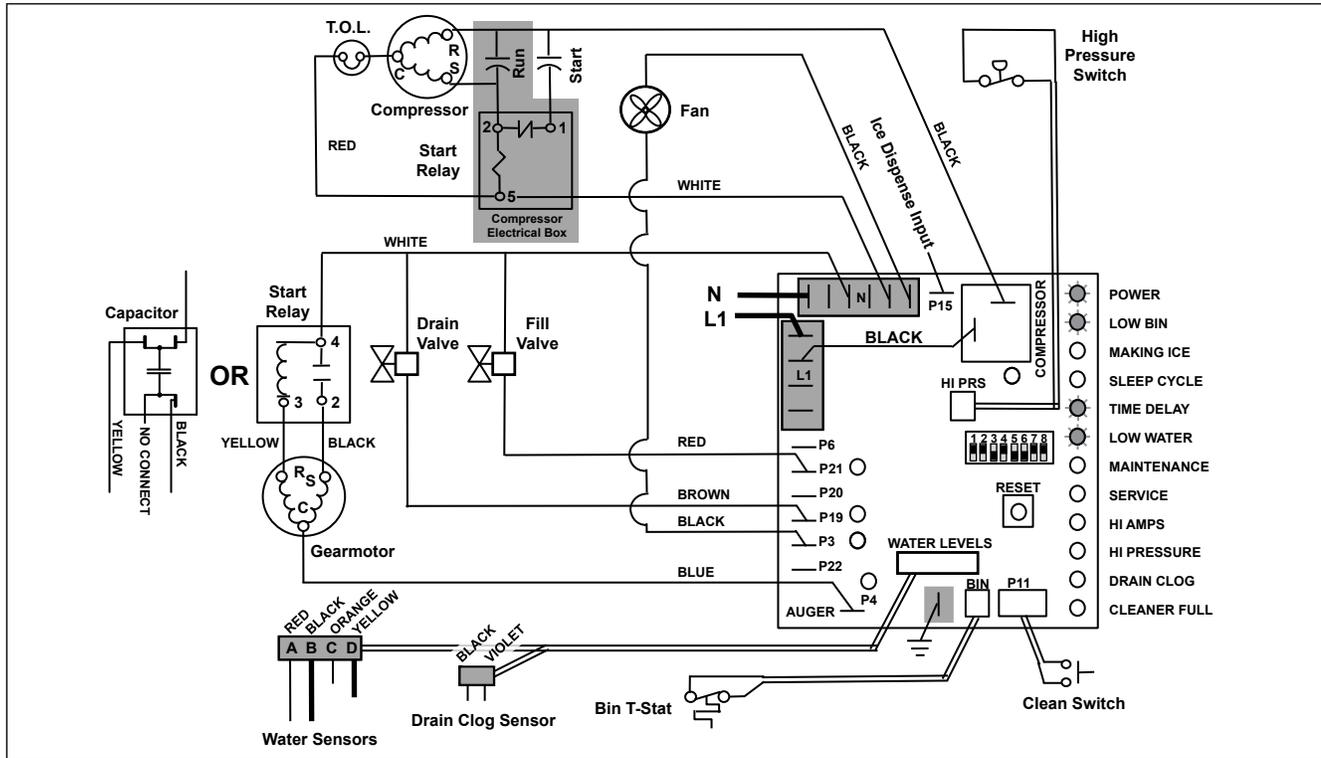
### High gearmotor amps – Stage 3

If a second occurrence happens during the 60 minute monitoring period, the **HI AMPS** LED will come on again and shut the machine down (strike two). The **HI AMPS** LED (without the **TIME DELAY** LED) will indicate to the technician that two consecutive over-torque situations have occurred. The ice machine is shut down at this time and locked out. It will not restart unless the manual reset button is depressed while power is on.



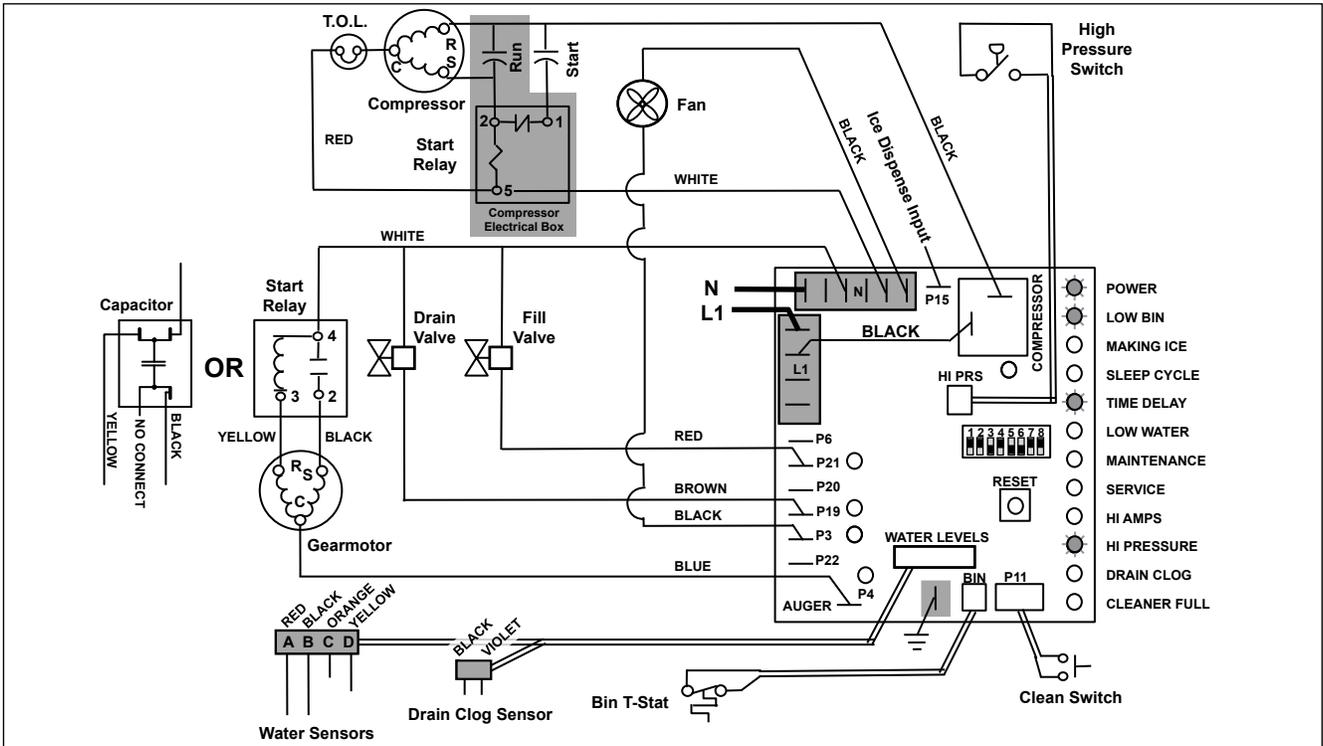
### Loss of water

During operation, the water level cycles between the normal low (D) and normal high (C) water probes - the fill valve (P21) cycling on and off. If continuity is not detected between the common probe (B) and normal low (D) within 10 seconds, the **LOW WATER** and **TIME DELAY** LEDs will come on and the machine will shut down for the one hour time delay period. After the time delay, the fill valve will re-energize and wait for continuity between the common probe and normal high before restarting. **LOW WATER** LED will remain ON until the water level is satisfied.



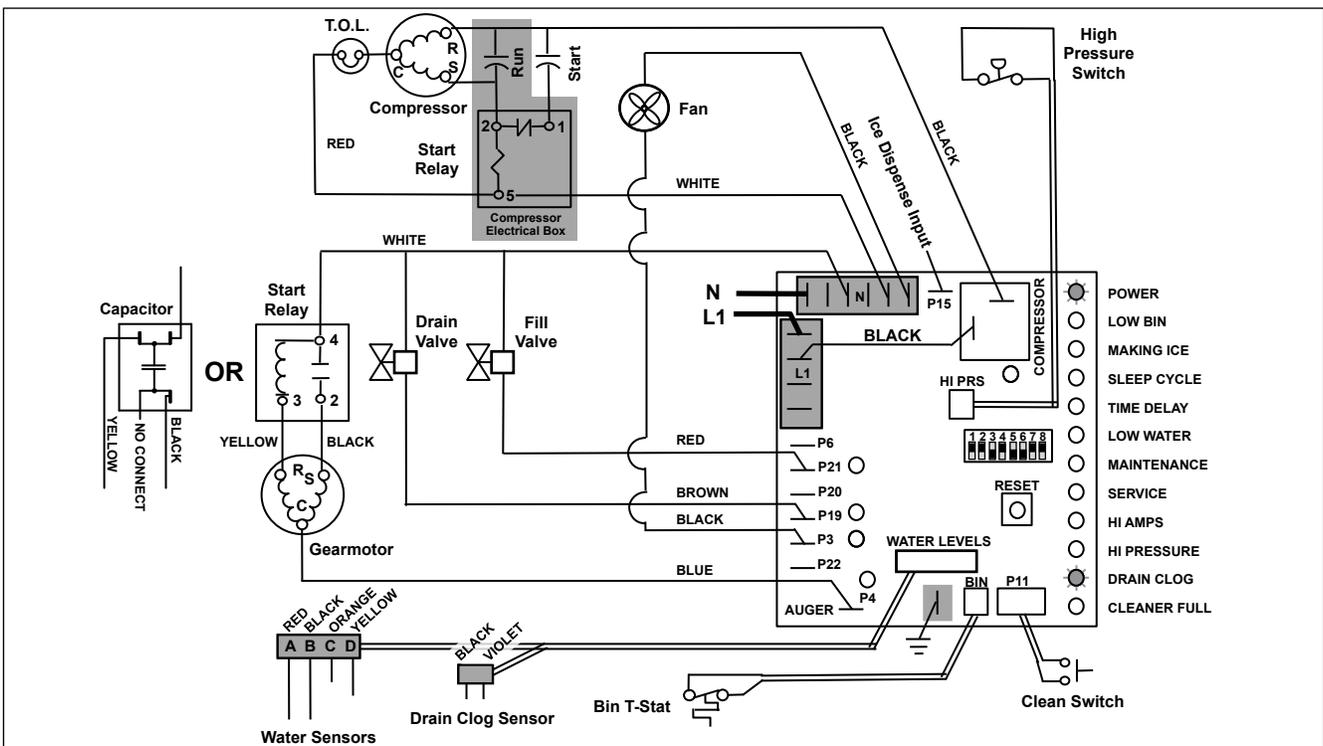
## High refrigerant pressure

Should the refrigeration pressure rise above 425 psi, the high pressure switch contacts will open. The board sees the open circuit and the **HIGH PRESSURE** and **TIME DELAY** LEDs will come on, the machine shuts down. After the one hour time delay, the machine will attempt to restart. If the pressure has fallen below the reset point of 295 psi and the board see the contacts closed, the machine will resume normal operation. If the contacts are still open after the restart, the board will again go into **HIGH PRESSURE** and **TIME DELAY**, cycling until contact closure is seen.

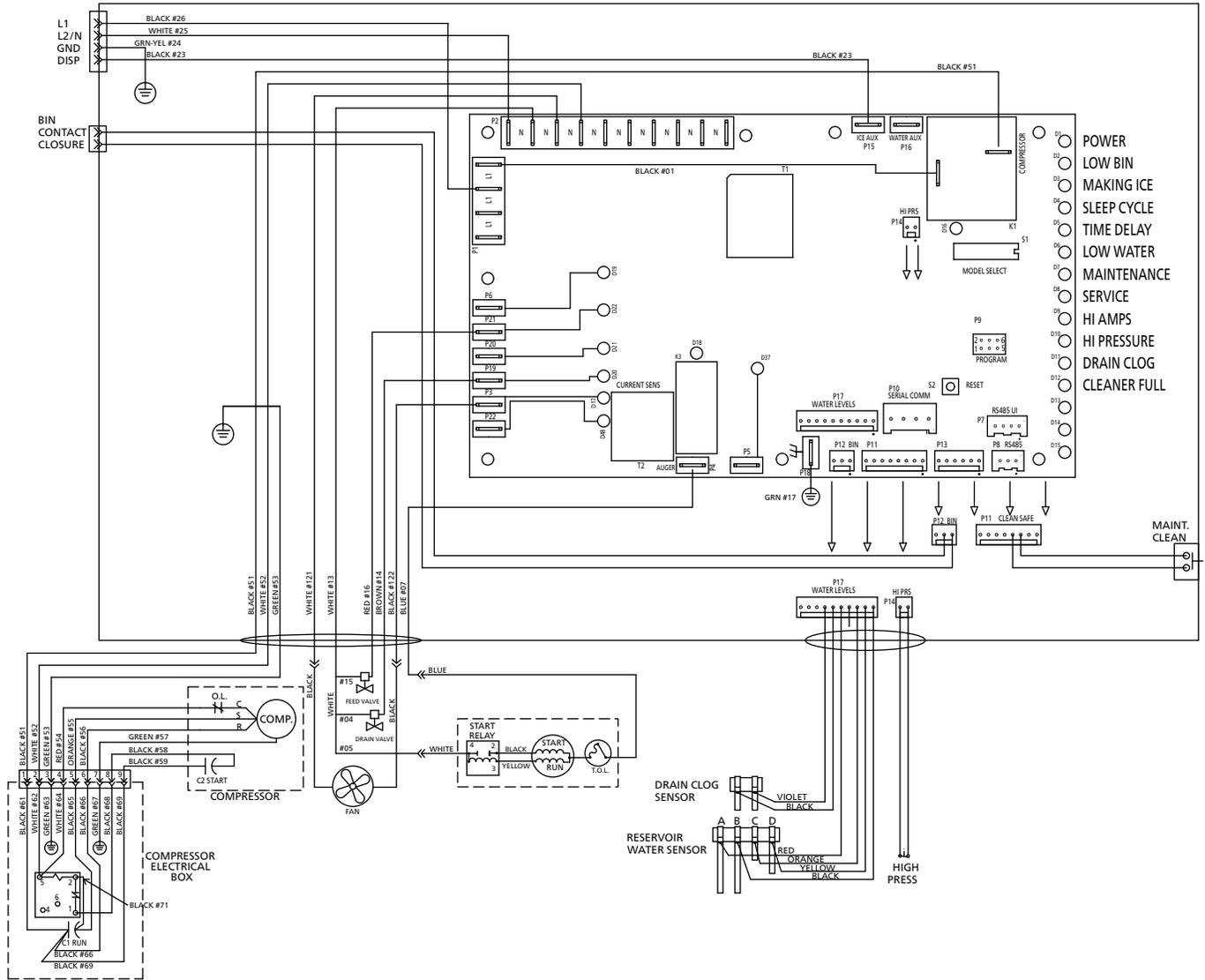


## Drain clog

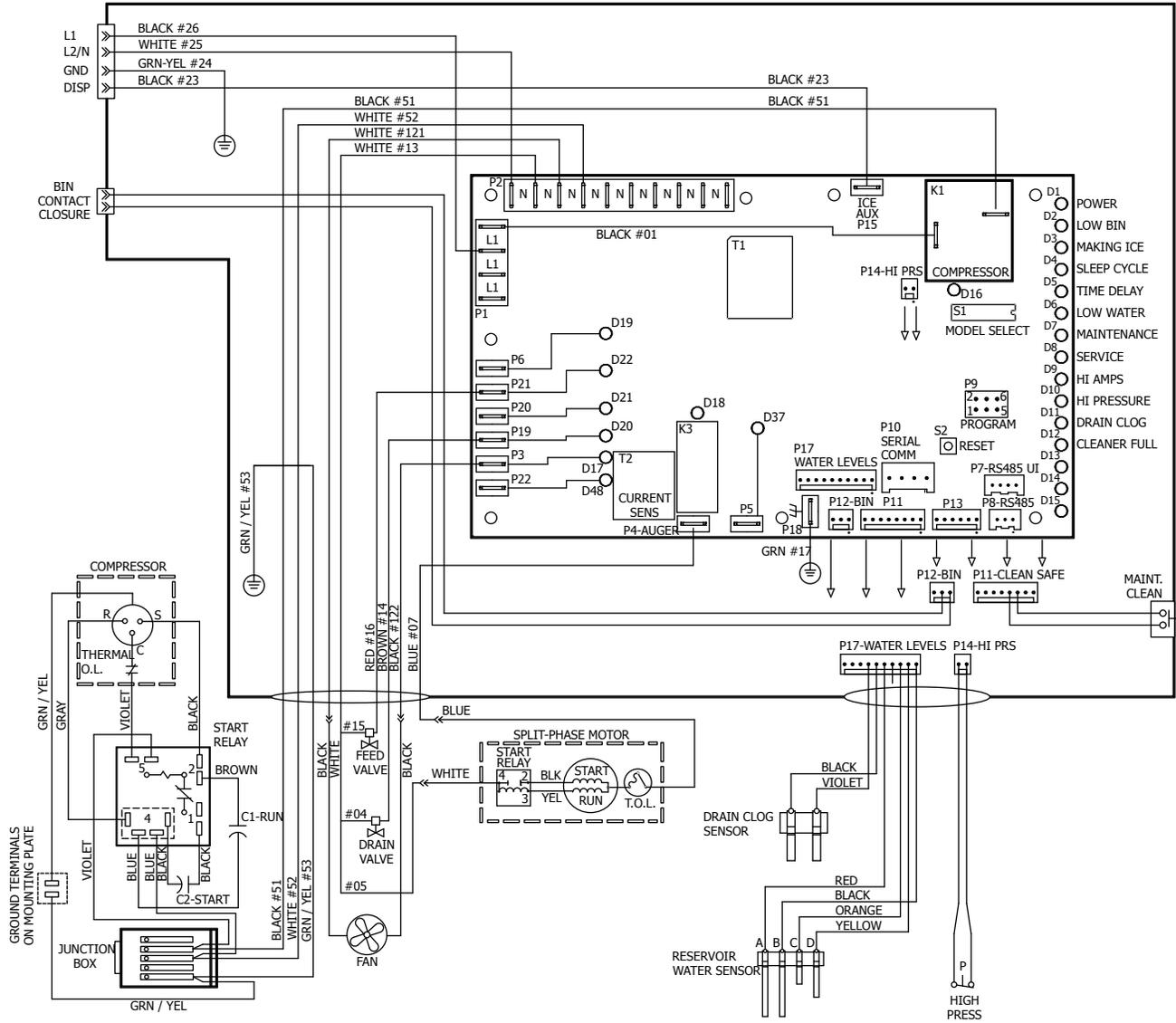
If continuity is seen between the two drain clog sensor probes, the **DRAIN CLOG** LED will come on and the machine will shut down. The machine will not restart unless the manual reset button is depressed while power is on.



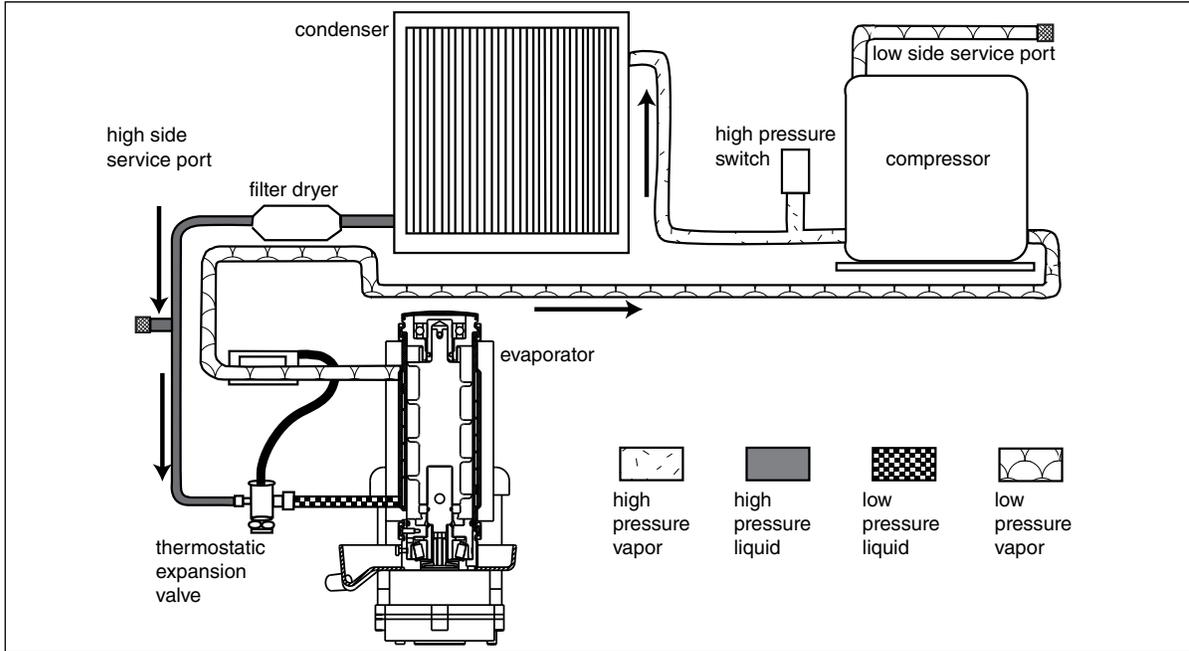
# Electrical control system schematic - 230 V 50 Hz



# Electrical control system schematic - 220 V 60 Hz



## Refrigeration cycle



## Refrigeration system

**Important:** All service on refrigeration system must be performed in accordance with all federal, state and local laws that pertain to the use of refrigerants. It is the responsibility of the technician to ensure that these requirements are met.

Model	Charge	Refrigerant type
25/50CI425A, 25/50HI425A (air-cooled)	15 oz	R404A
25/50CI425W	9 oz	R404A

### CAUTION!

- Recharging of unit at other than factory specifications will void ice machine warranty.

## Refrigerant replacement requirements

1. Non-contaminated refrigerant removed from any Follett refrigeration system can be recycled and returned to the same system after completing repairs. Recycled refrigerant must be stored in a clean, approved storage container. If additional refrigerant is required, virgin or reclaimed refrigerant that meets ARI standard 700-88 must be used.
2. In the event of system contamination (for example, a compressor burn out, refrigerant leak, presence of non-condensibles or moisture), the system must be repaired, evacuated and recharged using virgin or reclaimed refrigerant that meets ARI standard 700-88.
3. Follett Corporation does not approve of recovered refrigerants. Improper refrigeration servicing procedures will void the factory warranty.

## Evacuation

Evacuate the system to a level of 500 microns. When the 500 micron level is reached, close valves and both manifold and shut down the vacuum pump. Allow the system to sit for approximately 20 minutes. During this period the system pressure should not rise. If the system pressure rises and stabilizes there is moisture in the system and further evacuation is needed. If the pressure continues to rise check the system for leaks.

## Ice capacity test

Ice machine production capacity can only be determined by weighing ice produced in a specific time period.

1. Remove top panel and hopper lid of unit.
2. Weigh and record weight of container used to catch ice.
3. Run ice machine for at least 15 minutes.
4. Catch ice for 15 or 20 minutes.
5. Weigh harvested ice and record total weight.
6. Subtract weight of container from total weight.
7. Convert fractions of pounds to decimal equivalents (Ex. 6 lbs 8 oz = 6.5 lbs).
8. Calculate production using following formula:

$$\frac{1440 \text{ min.} \times \text{wt. of ice produced}}{\text{Total test time in minutes}} = \text{Production capacity/24 hr. period}$$

9. Calculated amount per 24 hours should be checked against rated capacity for same ambient and water temperatures in Ice Production Table (see page 23).

**Air-Cooled ice machine capacity/24hrs. - 220 V/60 Hz**

Ambient Air Temperature F/C

Inlet Water Temperature F/C	F	60	70	80	90	100	
	C	16	21	27	32	38	
50		454	426	398	363	328	lbs.
10		205	193	181	165	149	kg.
60		437	408	379	346	314	lbs.
16		198	185	172	157	142	kg.
70		420	390	359	330	300	lbs.
21		191	177	163	150	136	kg.
80		401	374	348	319	290	lbs.
27		182	170	158	145	132	kg.
90		381	359	337	308	280	lbs.
32		173	163	153	140	127	kg.

**Air-Cooled ice machine capacity/24hrs. - 230 V/50 Hz**

Ambient Air Temperature F/C

Inlet Water Temperature F/C	F	60	70	80	90	100	
	C	16	21	27	32	38	
50		460	425	390	355	320	lbs.
10		208	193	177	161	145	kg.
60		437.5	405	372.5	340	307.5	lbs.
16		198	184	169	154	139	kg.
70		415	385	355	325	295	lbs.
21		188	175	161	147	134	kg.
80		405	375	345	315	285	lbs.
27		184	170	156	142	129	kg.
90		395	365	335	305	275	lbs.
32		179	166	152	138	125	kg.

**Water-Cooled ice machine capacity/24hrs. - 220 V/60 Hz**

Condenser Water Temperature F/C

Inlet Water Temperature F/C	F	60	70	80	90	100	
	C	16	21	27	32	38	
50		454	442	431	419	408	lbs.
10		206	200	195	190	185	kg.
60		435	421	407	394	380	lbs.
16		197	191	185	179	172	kg.
70		416	400	384	368	351	lbs.
21		187	181	174	167	159	kg.
80		396	381	365	350	335	lbs.
27		180	173	166	159	152	kg.
90		375	361	346	332	318	lbs.
32		170	164	157	151	144	kg.

**Water-Cooled ice machine capacity/24hrs. - 230 V/50 Hz**

Condenser Water Temperature F/C

Inlet Water Temperature F/C	F	60	70	80	90	100	
	C	16	21	27	32	38	
50		429	407	386	364	353	lbs.
10		195	185	175	165	160	kg.
60		409	389	370	350	331	lbs.
16		185	176	168	159	150	kg.
70		389	372	354	336	322	lbs.
21		176	169	161	152	146	kg.
80		370	353	337	320	304	lbs.
27		168	160	153	145	138	kg.
90		349	335	320	315	290	lbs.
32		158	152	145	143	132	kg.

### Compressor data

Air-cooled										
Ambient air temperature	60 F/15.6 C		70 F/21.1 C		80 F/26.7 C		90 F/32.2 C		100 F/37.8 C	
	220 V	230 V	220 V	230 V						
Amperage	2.65	2.25	2.77	2.36	2.89	2.46	3.01	2.57	3.13	2.68
High-side pressure (psi)	219	199	256	233	293	266	330	306	367	346
Low-side pressure (psi)	28	29	30	31	33	33	35	36	38	38

Water-cooled										
Condenser water temperature	60 F/15.6 C		70 F/21.1 C		80 F/26.7 C		90 F/32.2 C		100 F/37.8 C	
	220 V	230 V	220 V	230 V						
Amperage	2.8	2.4	2.9	2.5	2.9	2.5	2.9	2.5	3.0	2.6
High-side pressure (psi)	290	290	291	291	292	292	292	293	293	294
Low-side pressure (psi)	31	32	31	32	32	33	32	34	33	34

Locked rotor amps	220 V: 19.6A	230 V: 18.2A
Condenser water usage:	@ 70 F/70F: 0.26 gal/min	@ 90 F/70F: 0.56 gal/min

Gearmotor data	220 V/60 Hz	230 V/50 Hz
Gearmotor current	1.0A (nominal)	1.3A (nominal)
Locked rotor amps	6.8A	6.8A

## Dispenser troubleshooting



### CAUTION!

- Disconnect power to unit before putting hands or arms in storage area or attempting any repair or service to equipment.

#### Before calling for service

1. Check that no ice is in the dispenser bin area.
2. Check that congealed ice is not causing a jam.
3. Check that all switches and circuit breakers are on.
4. Check that all drains are clear.
5. Check that water is supplied.

#### Lever model troubleshooting guide

Problem	Indicators	Corrective Action
Does not dispense ice.	<ol style="list-style-type: none"> <li>1. Power switch off or faulty.</li> <li>2. Faulty dispense switch.</li> <li>3. Wheel motor malfunction.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check switch – turn on or replace if faulty.</li> <li>2. Replace switch.</li> <li>3. Check motor and replace</li> </ol>
Dispense wheel rotates continuously.	Dispense switch contacts are burned out.	Replace dispense switch.
Ice machine runs continuously.	Faulty or incorrectly positioned bin stat.	Check for proper positioning. If stat does not open when ice is placed on capillary tube, replace stat.
Does not dispense water.	<ol style="list-style-type: none"> <li>1. Faulty water solenoid valve.</li> <li>2. Faulty dispense switch.</li> <li>3. Power switch off or faulty.</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace water solenoid valve.</li> <li>2. Replace dispense switch.</li> <li>3. Check switch - turn on or replace if faulty.</li> </ol>

#### SensorSAFE model troubleshooting guide

Problem	Action	SensorSAFE Board LED Status			Corrective Action
		PWR	CLN	ICE/WTR	
Does not dispense ice and/or water.	Check LEDs on the SensorSAFE control board.	OFF	OFF	OFF	Check circuit breakers and power switch. Restore power or replace defective switch.
		ON	ON	OFF	Press clean switch on lower left side of electrical enclosure to return board to normal operation.
	Place cup under drop zone (in front of lens)	ON	OFF	OFF	Troubleshoot appropriate lens/sensor and replace if required.
		ON	OFF	ON	Verify power on appropriate output terminal (WTR or WM) on control board and replace board if required. If board tests okay, troubleshoot appropriate dispenser component.
Dispenses ice and/or water continuously.	Check LEDs on control board.	ON	OFF	ON	Troubleshoot appropriate lens/sensor and replace if required.
		ON	OFF	OFF	If there is power on any output terminal (WTR or WM) on control board, replace board.

### SensorSafe Board guide

LEDs, when illuminated, indicate the following: PWR (board power), CLN (clean button pressed WTR and WM outputs disabled), ICE (ice dispensing activated), WTR (water dispensing activated).

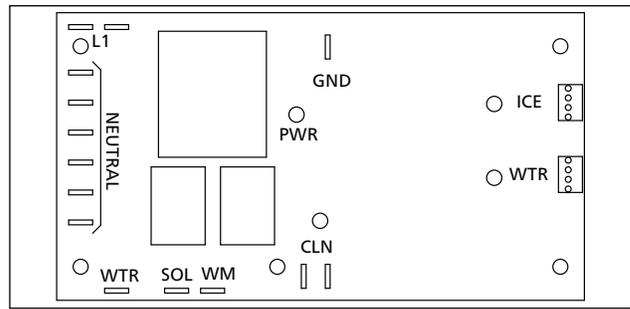
Terminals: L1 (incoming power, hot), L2 (neutral terminals), WTR (power terminal for water solenoid), WM (power terminal for wheelmotor), CLN (terminals for clean cycle switch).

**Note:** SOL terminal not used in 12 series dispensers.

### Lens/sensor troubleshooting

1. Turn dispenser power switch off and remove splash panel.
2. Disconnect wires from WTR and WM terminals on board.
3. Gently remove sensor/mounting block from splash panel.
4. Inspect lens and sensor, clean if necessary.
5. Restore dispenser power and test sensor by passing hand in front of sensor.
6. If LED on board turns on, sensor is operational. Re-assemble dispenser.
7. If LED does not come on switch sensor leads on board and retest.
8. If opposite LED comes on – replace defective board.
9. If opposite LED does not come on – replace defective sensor.

Fig. 10

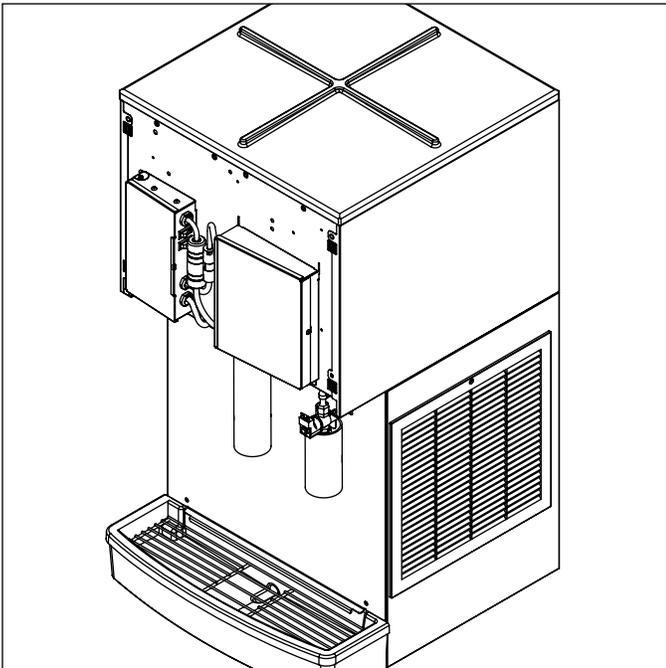


## Ice machine removal instructions

### CAUTION!

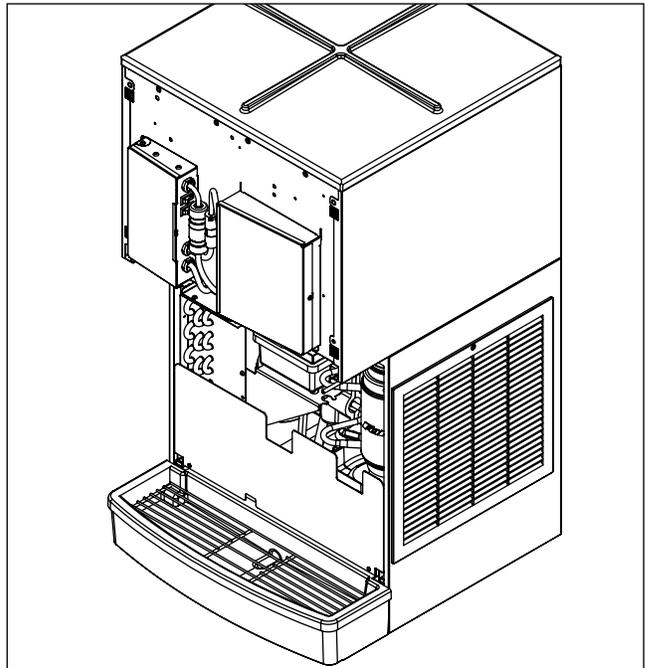
- Disconnect power to unit before putting hands or arms in storage area or attempting any repair or service to equipment.

Fig. 11 – All models



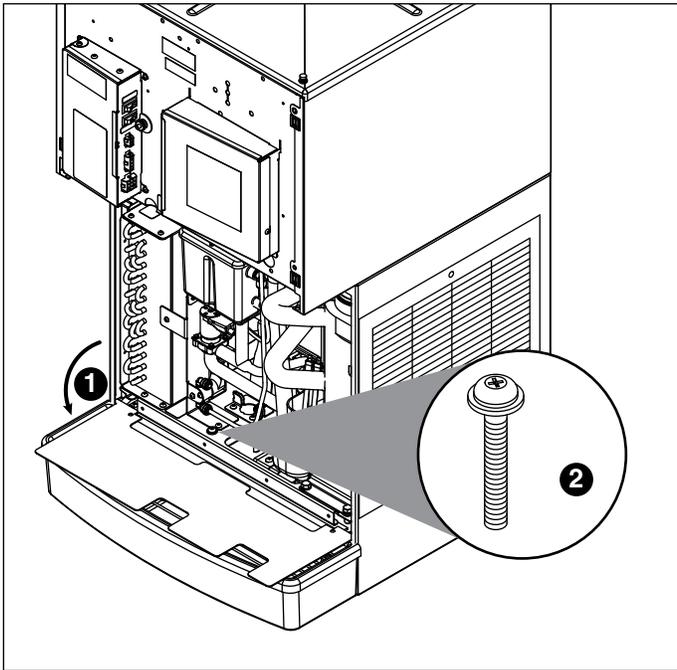
1. Dispense all ice and remove front cover (Fig. 11).

Fig. 12 – All models



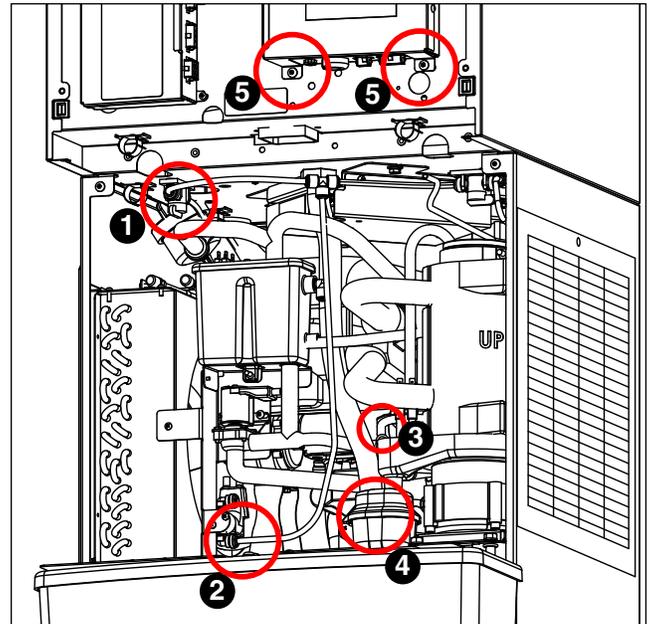
2. Remove splash panel (Fig. 12).

Fig. 13 – All models



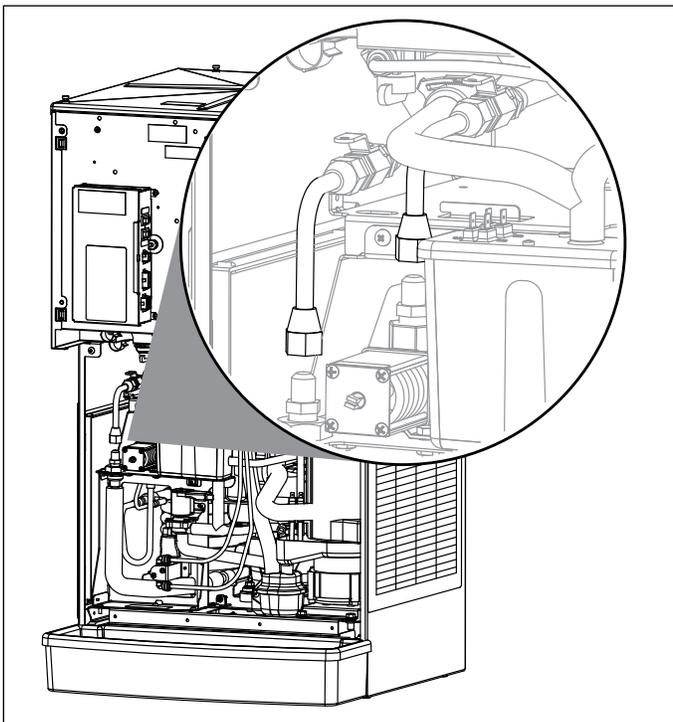
3. Lower drain pan protector (Fig. 13.1). Remove and discard shipping screw (Fig. 13.2).

Fig. 14



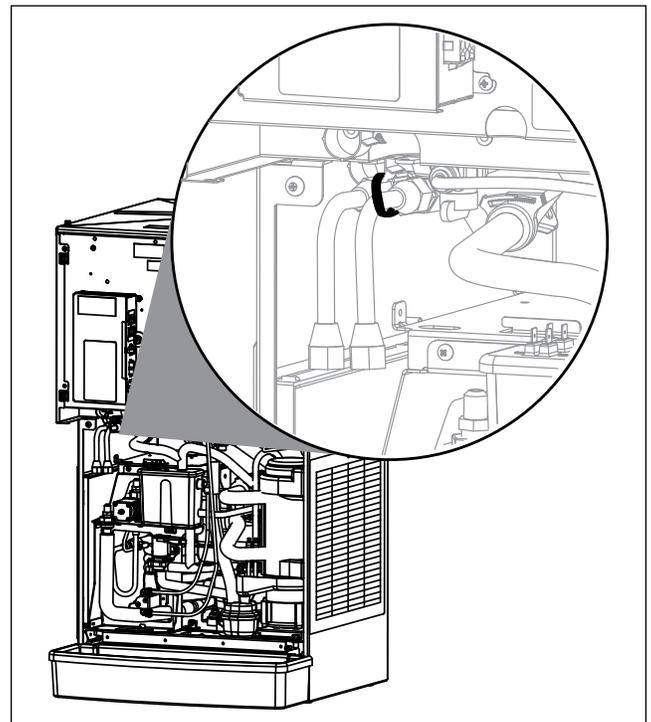
4. Close main water shut off valve (Fig. 14.1).
5. Disconnect water line to fill solenoid (Fig. 14.2).
6. Remove bin drain tube (Fig. 14.3).
7. Remove drain cup (Fig. 14.4).
8. Remove screws securing bottom of ice machine electrical box (Fig. 14.5).

Fig. 15 – Water-cooled only



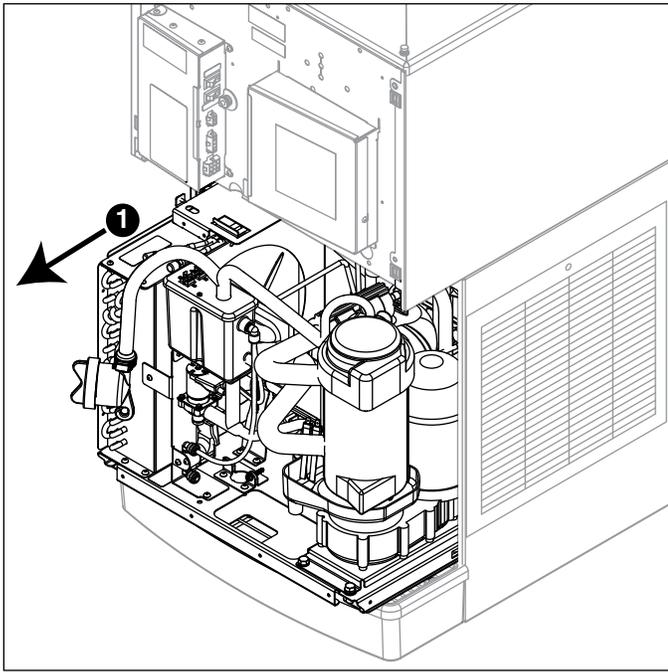
9. Shut off inlet and outlet valves to water-cooled condenser and disconnect fittings (Fig. 15).

Fig. 16 – Water-cooled only



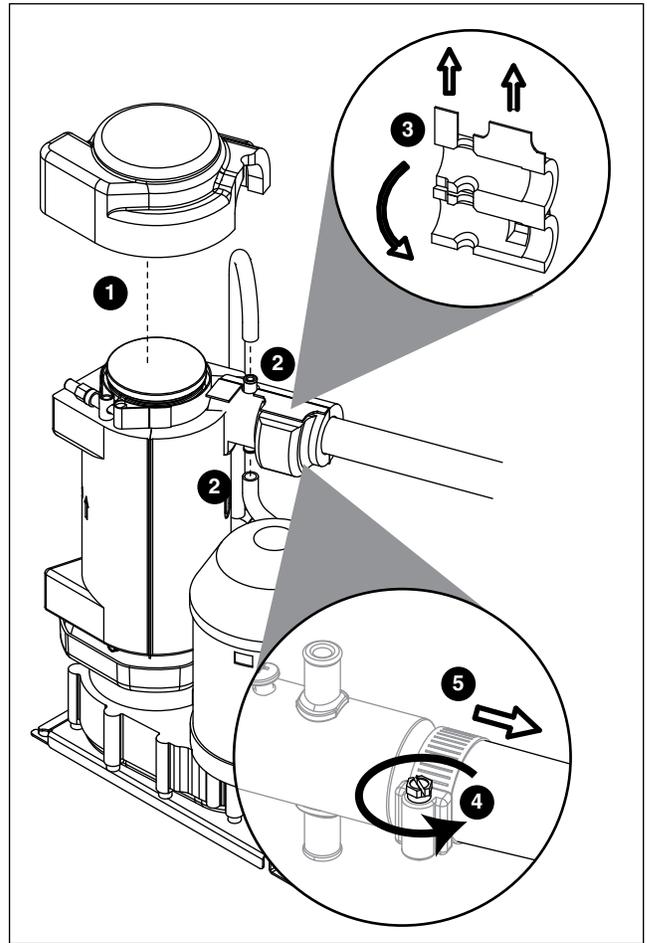
10. Lift and position water-cooled lines into hook (Fig. 16).

**Fig. 17 – All models**



- 11. Partially slide ice machine from dispenser (Fig. 17.1).
- 12. Disconnect power and bin signal twist lock connectors from ice machine electrical box.

**Fig. 18 – All models**



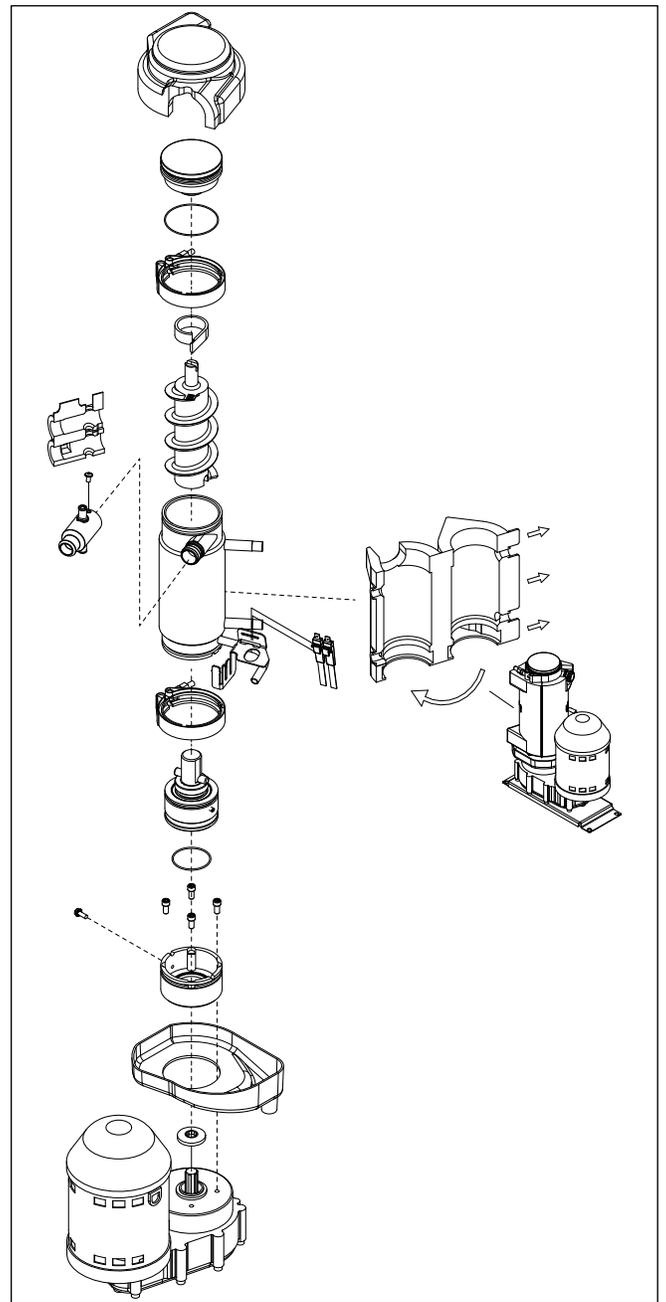
- 13. Remove insulation cap (Fig. 18.1).
- 14. Remove vent and drain tube (Fig. 18.2).
- 15. Remove nozzle insulation (Fig. 18.3).
- 16. Loosen ice tube hose clamp (Fig. 18.4).
- 17. Remove ice tube (Fig. 18.5).
- 18. Place ice machine electrical box on top of ice machine and slide out ice machine.

## Evaporator disassembly

**Note:** The upper bearing, lower bearing and auger assemblies must be replaced as assemblies. The bottom and top bearing assemblies cannot be field assembled to factory specifications.

1. Disconnect power to ice machine.
2. Shut off water to ice machine.
3. Drain evaporator and float tank.
4. Disconnect plastic tubing from evaporator water inlet.
5. Remove top bearing insulation.
6. Disconnect vent and drain tube from nozzle.
7. Remove compression nozzle insulation.
8. Disconnect compression nozzle tubing and reservoir overflow tubing from secured clip.
9. Remove nut and upper vee-band coupling from top of evaporator.
10. Lift top bearing assembly straight up with a slight rotating motion and remove.
11. Remove ice compression loop located at top of auger.
12. Lift auger straight up and out of evaporator.
13. Remove nut and lower vee-band coupling from bottom of evaporator.
14. Lift evaporator to clear bottom bearing assembly.
15. Loosen hex head bolt in side of mounting base with 5/16" wrench and lift lower bearing assembly.
16. Remove condensate shield.
17. Remove four Allen head machine screws holding mounting base to gearbox.
18. If replacing evaporator, remove compression nozzle from evaporator port.

Fig. 19



## Evaporator reassembly

1. Clean gearmotor boss, output shaft and shaft well.
2. Install drain pan and evaporator mounting base.
3. Fill gear motor shaft well with food grade grease (**Fig. 20**).
4. Install condensate shield and seat against gear motor boss.
5. Install bearing O ring in groove in evaporator mounting base.
6. Lower bottom bearing assembly into evaporator mounting base.
7. *While maintaining firm downward pressure on bottom bearing assembly*, tighten hex head bolt with a 5/16 wrench.
8. Position evaporator over lower bearing assembly and align grooves with pins in bearing assembly.
9. Install vee band clamp and nut to 70 in/lb. (**Fig. 21**).  
**Note:** Clamp must be oriented as shown in order for the insulation to be placed properly.
10. Place auger in center of evaporator and rotate to mate with drive pin.
11. Install ice compression loop, orienting loop.
12. Install upper bearing and seal assembly, rotating bearing to slip pin into auger slot.
13. Install upper vee band clamp and nut to 70 in/lb.
14. Install evaporator insulation.
15. Install compression nozzle and tubing.
16. Secure ice transport tube with clamp (**Fig. 22.1**).  
**Note:** Clamp must be oriented as shown in order for the insulation to be placed properly.
17. Install compression nozzle insulation (**Fig. 22.2**).
18. Install vent and drain tube (**Fig. 22.3**).
19. Install top bearing insulation (**Fig. 22.4**).

## Gearmotor replacement

1. Disassemble evaporator as described previously.
2. Disconnect the wire connectors.
3. Remove four screws holding gear motor mounting plate to base of ice machine and lift gearbox and motor clear of ice machine.
4. Remove machine screws holding mounting plate to motor.
5. Install new motor in reverse order.

Fig. 20

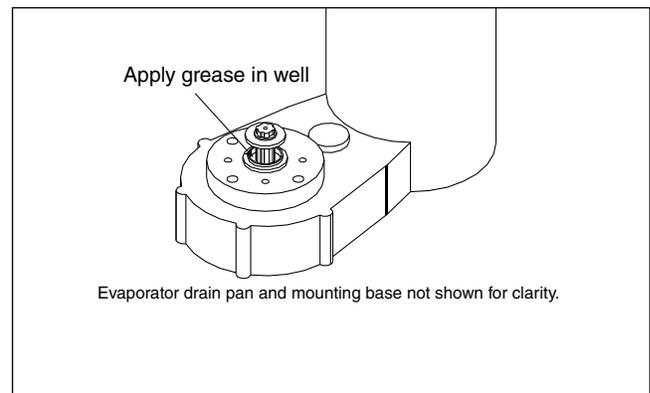


Fig. 21

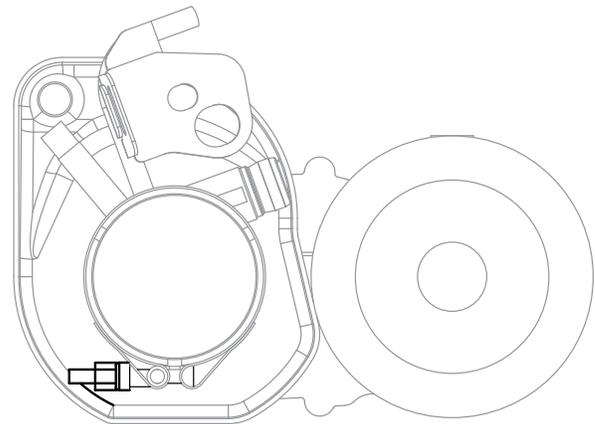
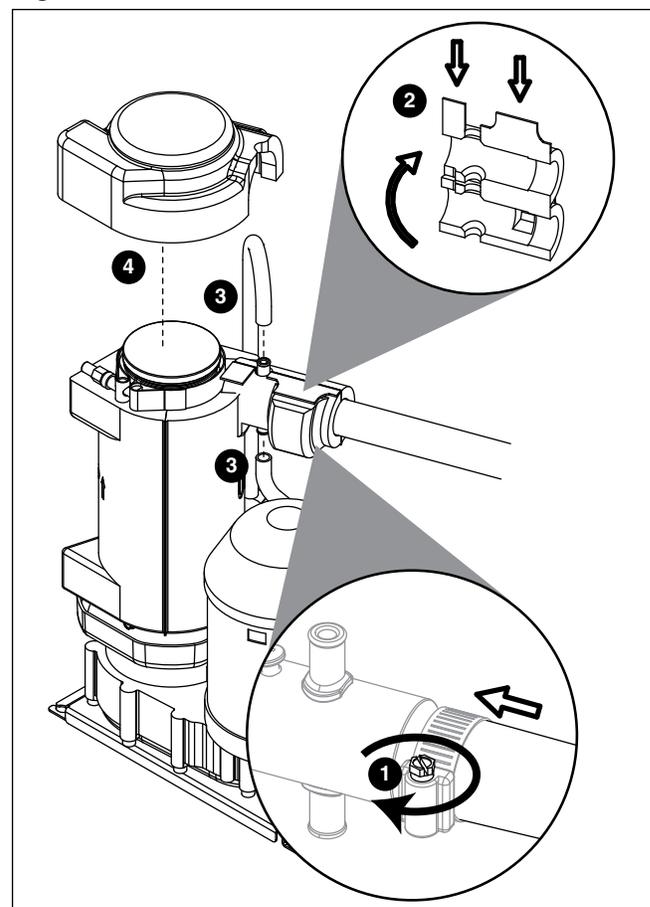
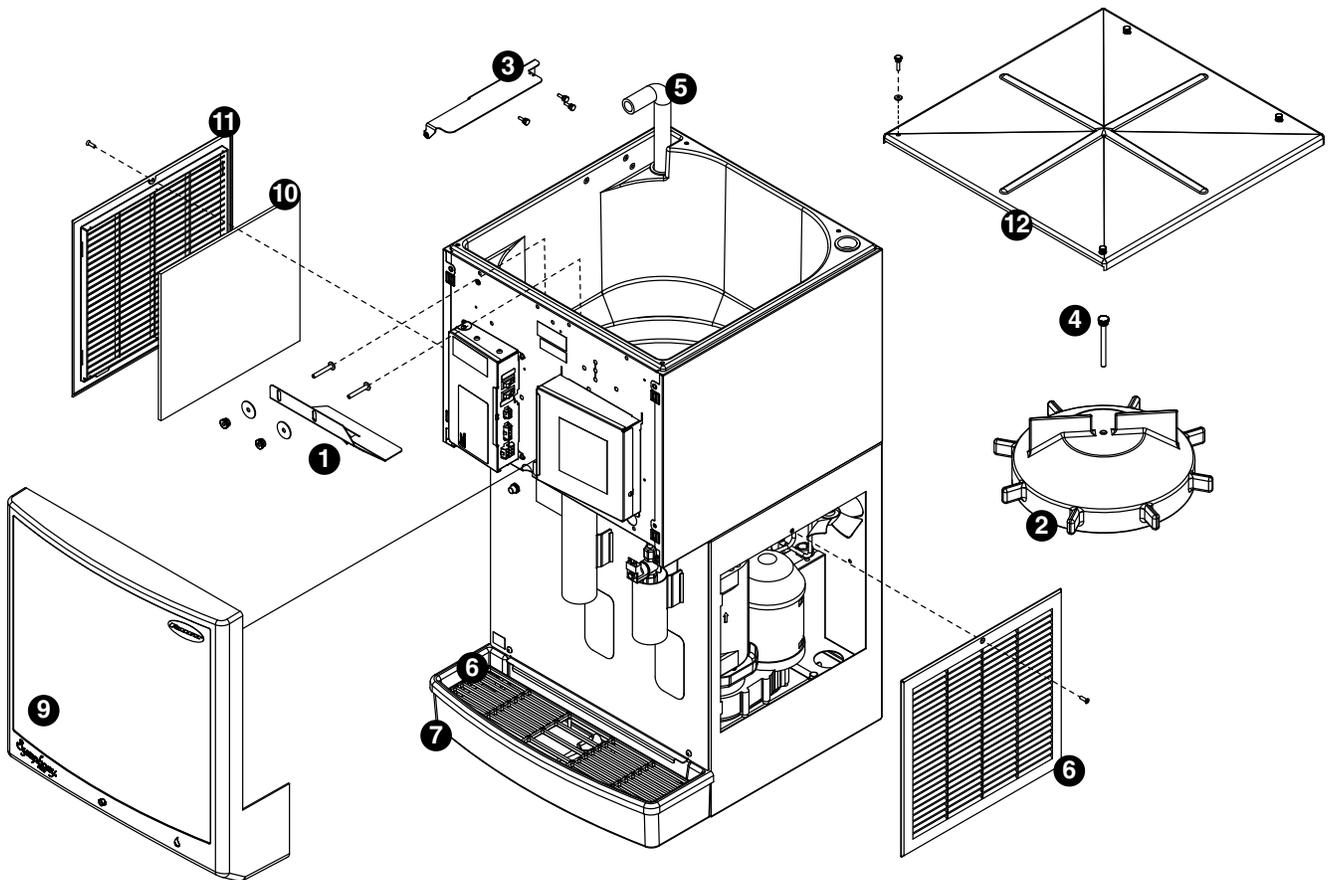


Fig. 22



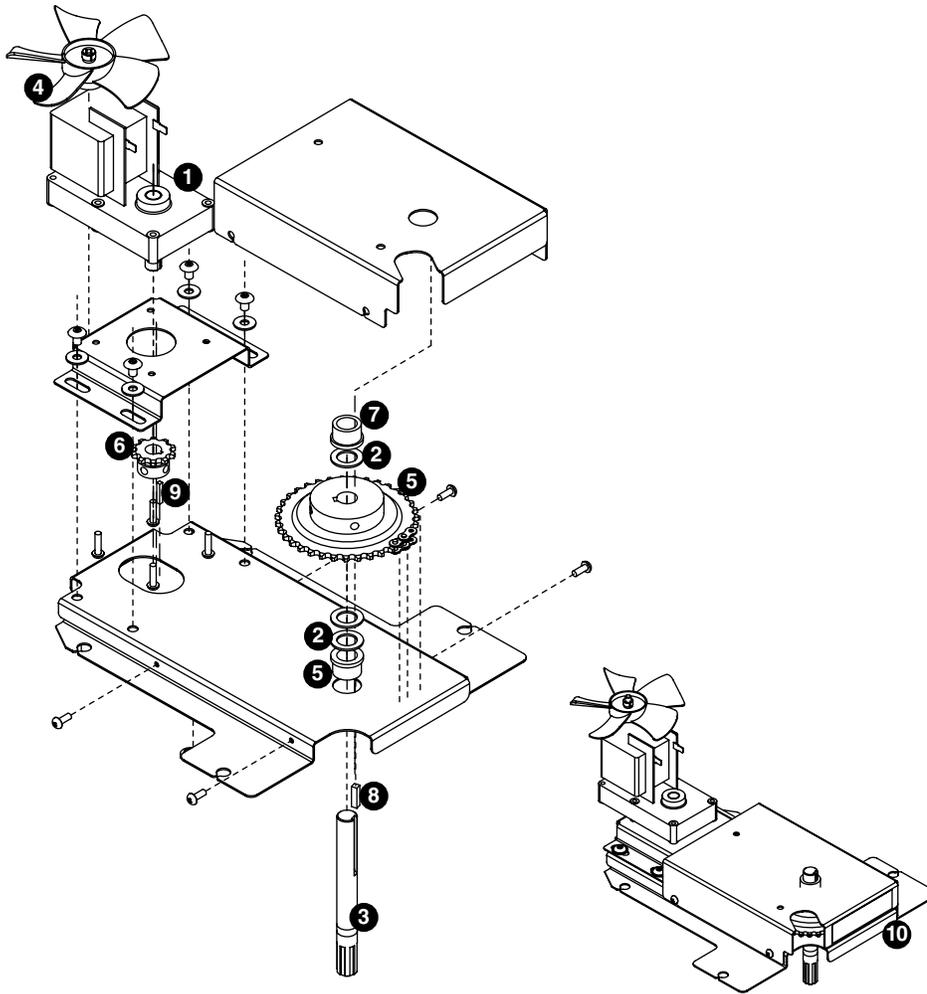
# Replacement parts

## Dispenser exterior



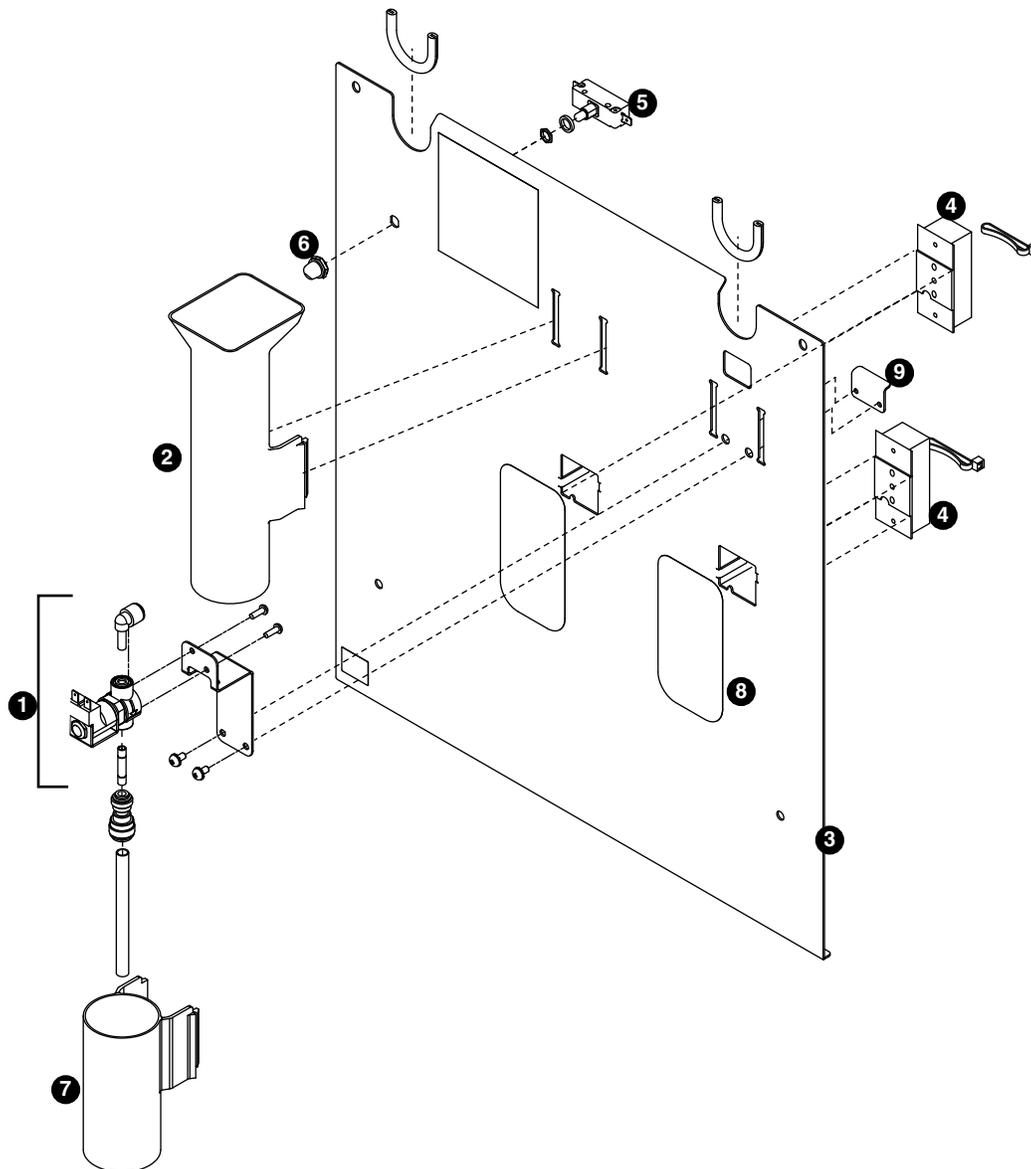
Reference	Description	Part #
1	Baffle, ice	501608
2	Wheel, dispense (includes 501612)	502821
3	Bracket, ice tube	502712
4	Rod, threaded (includes knurled nut)	501612
5	Ice transport tube, 25 series	01149830
5	Ice transport tube, 50 series	01149848
6	Louver, exhaust	00192963
7	Drain pan	502682
8	Grille, drain pan, gray plastic	01050277
9	Cover, front 25 series, ice and water	01072735
9	Cover, front 50 series, ice and water	01072750
9	Cover, front 25 series, ice only	01072743
9	Cover, front 50 series, ice only	01072768
10	Air filter	00184275
11	Louver, intake (includes 00184275)	00192955
12	Lid, hopper, secured	01072776
Not shown	Hopper, assembly, 25 series	00953281
Not shown	Hopper, assembly, 50 series	00953299
Not shown	Drain tube, ice storage hopper	01054576
Not shown	Drain pan protector	00195974
Not shown	Grille, drain pan, gray plastic, case of 12	01071232

## Wheel motor and drive system



Reference #	Description	Part #
1	Wheel motor, 120V, 60Hz	501699
2	Washer, thrust	501026
3	Shaft, drive (includes key and stud)	501619
4	Fan blade, wheel motor	501607
Not shown	Chain, pitch 67, link	00168781
5	Sprocket, drive shaft, 35T (includes drive shaft key)	502692
6	Sprocket, wheel motor, 10T	501019
7	Bearing, drive shaft	501024
Not shown	Connecting link, chain	500799
8	Key, drive shaft	500367
9	Key, wheel motor	205991
10	Dispenser drive assembly (parts 1-9 above)	502929

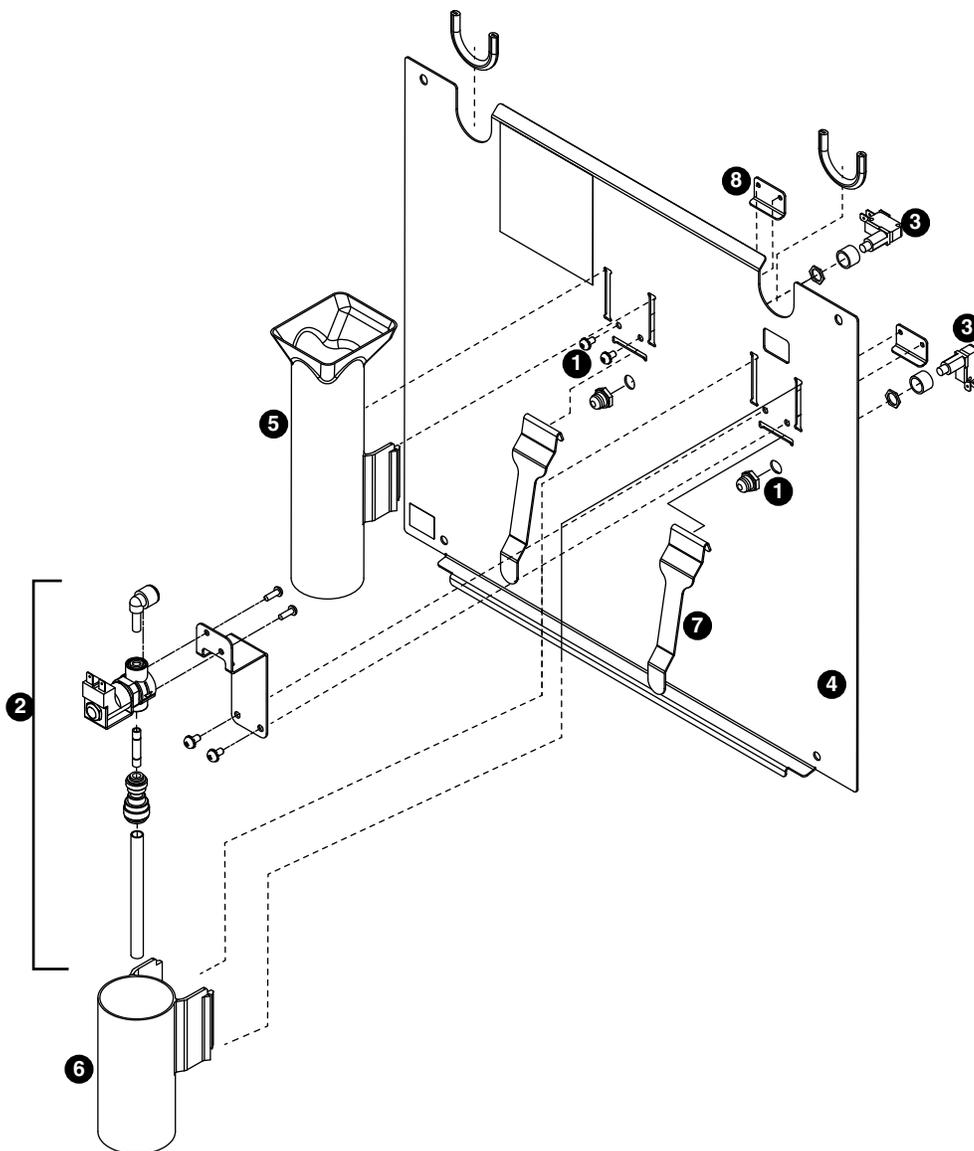
## Dispense chute and splash panel (models with SensorSAFE infrared dispensing)



Reference #	Description	Part #
1	Water solenoid (includes the solenoid, fittings, screws, and mounting bracket)	01399195
2	Chute, ice (with Agion®)	00984831
3	Splash panel, SensorSAFE dispense with drain pan (includes 2 lenses)	00981365
3	Splash panel, SensorSAFE dispense with drain pan, ice only (includes 1 lens)	00981381
4	Sensor, ice or water dispense	00195982
5	Clean switch, SensorSAFE (includes boot)	502359
6	Boot, clean switch button (mounts on 502359 switch)	501841
7	Chute, water (with Agion)	00984898
8	Lens, sensors	00977983
9	Bracket, water valve	00958793
Not shown	Tubing, water station, thermoplastic, 1/4" OD (sold by the foot)	502079

<sup>1</sup> Disclaimer: Antimicrobial protection is limited to the treated components and does not treat water or ice. Agion is a registered trademark of Agion Technologies, Inc, Wakefield, MA, USA.

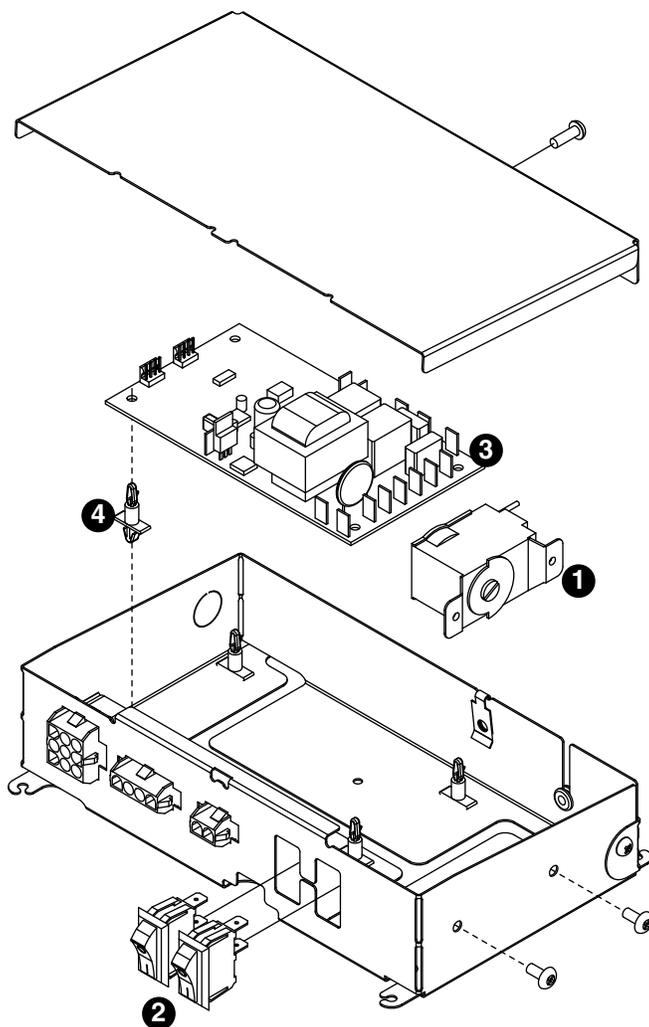
## Dispense chute and splash panel (models with lever dispensing)



Reference #	Description	Part #
1	Boot, dispense switch button (mounts on 00981217 switch)	502418
2	Water solenoid (includes the solenoid, fittings, screws, and mounting bracket)	01399195
3	Switch, dispense, ice or water, lever actuated (includes boot)	00981217
4	Splash panel, lever dispense	00981290
4	Splash panel, lever dispense, ice only	00981308
5	Chute, ice (with Agion antimicrobial product protection <sup>1</sup> )	00984831
6	Chute, water (with Agion)	00984898
7	Lever, dispense	00976845
8	Bracket, lever	00958793
Not shown	Tubing, water station, thermoplastic, 1/4" OD (sold by the foot)	502079

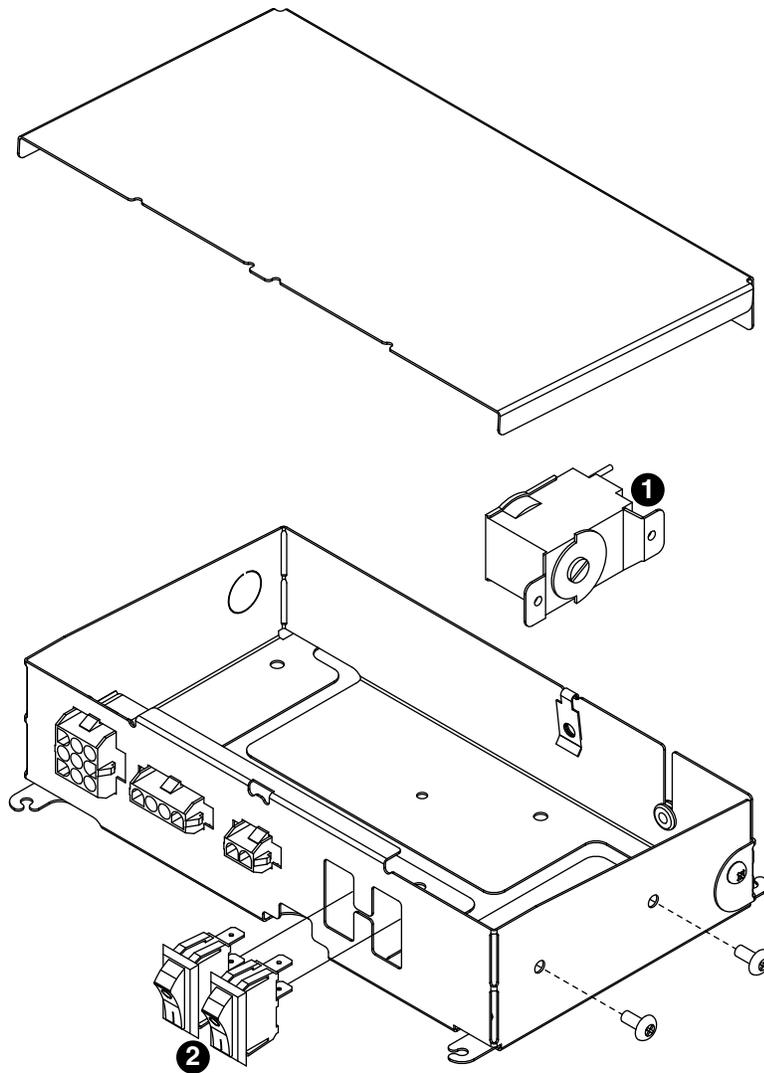
\* Ty-rap is a registered trademark of Thomas & Betts International, Inc.

## Dispenser electrical box – SensorSAFE models



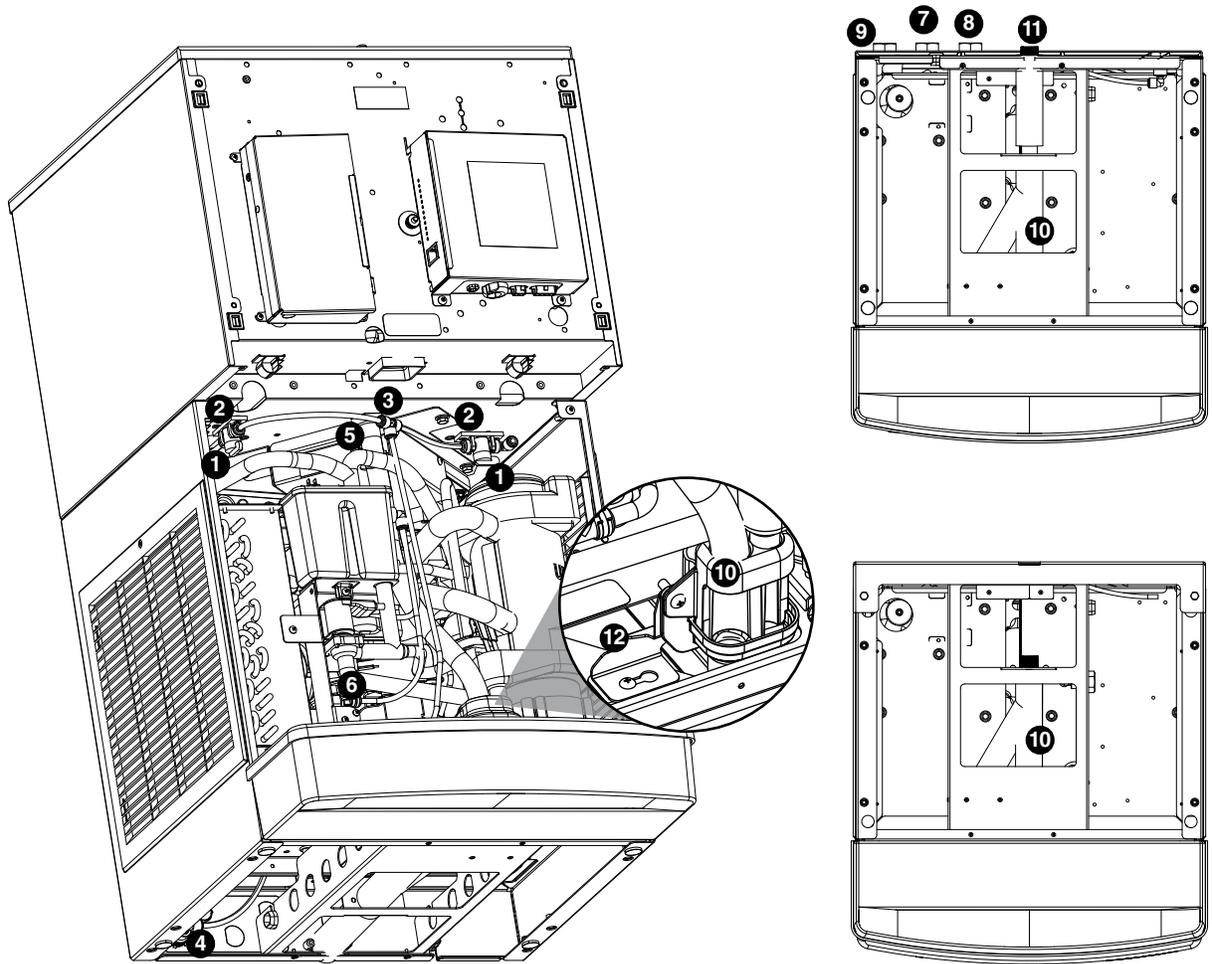
Reference #	Description	Part #
1	Thermostat	500514
2	Switch, dispenser power	502209
2	Switch, ice machine bin signal	502209
3	Board, SensorSAFE	502915
4	Standoff, board (4 required)	501959
Not shown	Cord and plug, ice machine power (dispenser box to ice machine box)	01037878
Not shown	Cord and plug, bin signal (dispenser box to ice machine box)	01037944
Not shown	Power cord	01150002

## Dispenser electrical box – lever models



Reference #	Description	Part #
1	Thermostat	500514
2	Switch, dispenser power	502209
2	Switch, ice machine bin signal	502209
Not shown	Cord and plug, ice machine power (dispenser box to ice machine box)	01037878
Not shown	Cord and plug, bin signal (dispenser box to ice machine box)	01037944
Not shown	Power cord	01150002

## Water and drain

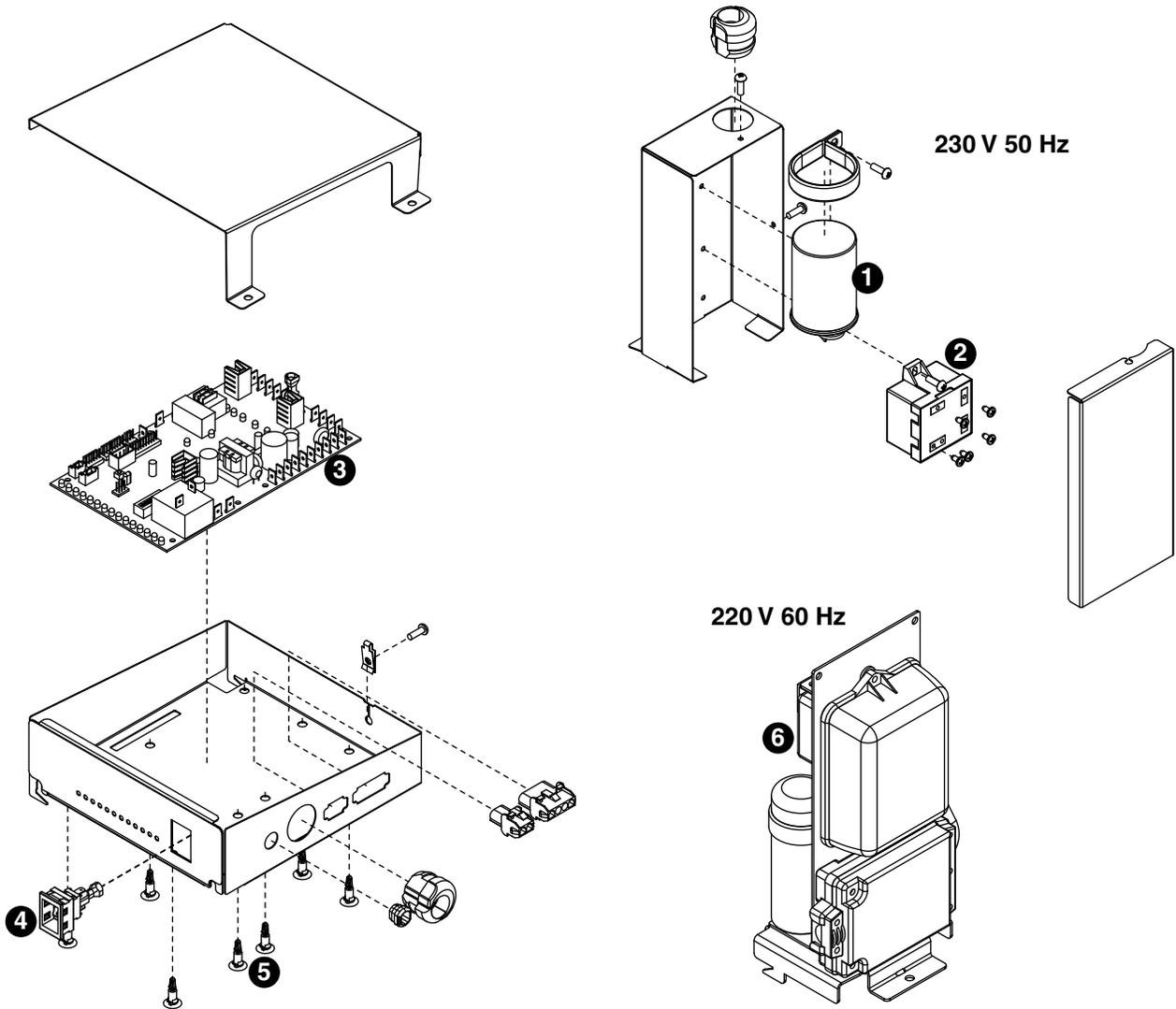


Reference #	Description	Part #
1	Valve, water shut off	01035526
2	Clip, shut off valve	01035534
3	Tee, 1/4"	502923
4	Elbow, 1/4" stem x 1/4" push-in	00121699
5	Tube, drain, hopper, 230 V/50 Hz	01054576
5	Tube, drain, hopper, 220 V/60 Hz	01165398
6	Tube, purge	01054584
7	Fitting, water-cooled condenser inlet	00195966
8	Fitting, water-cooled condenser outlet	00195966
9	Fitting, water inlet	01065275
10	Tube, drain pan and cup, includes drain cup and bracket	01072842
Not shown	Tubing 1/4"	502079
11	Fitting, drain	00109728
12	Bracket, drain cup	01111111
Not shown	Valve, check, 1/4"	01122381

## Water treatment accessories for Symphony Plus ice and water dispensers

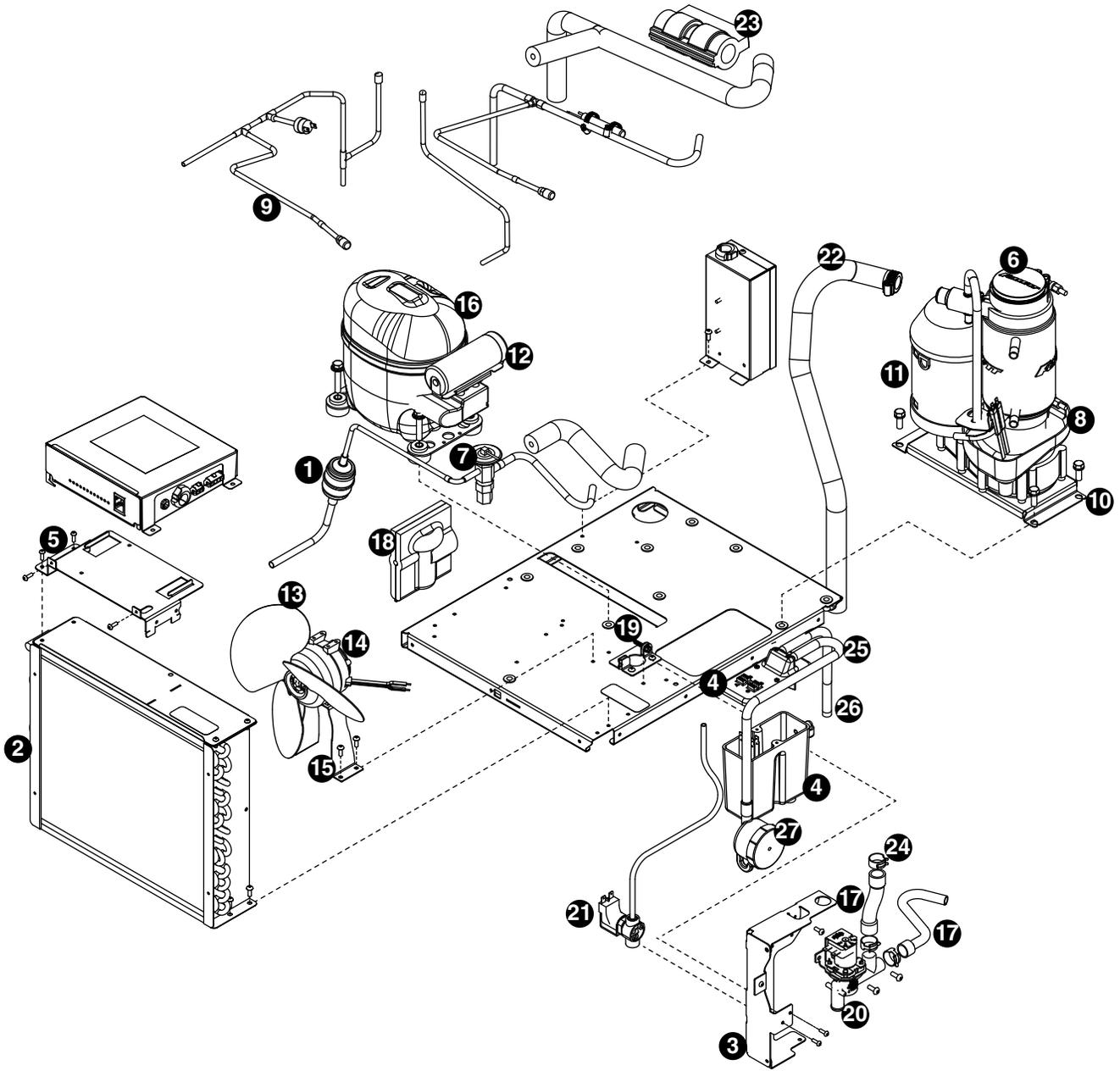
Reference #	Description	Part #
<b>Standard capacity filter system</b>		
Not shown	Follett QC4-FL4S water filter system (includes FL4S primary cartridge and head, coarse pre-filter and head, pressure gauge, flushing valve; assembled and installed on mounting bracket), one per ice machine	00130229
Not shown	Follett FL4S primary replacement cartridge	00130245
Not shown	Water filter cartridge – primary, carton of 6	00954297
Not shown	Everpure coarse pre-filter cartridge	00130211
Not shown	Water pre-filter cartridge – pre-filter, carton of 12	00954305
<b>High capacity filter system</b>		
Not shown	High capacity water filter system (one per ice machine)	00978957
Not shown	High capacity water filter cartridge – primary, single	00978965
Not shown	High capacity water filter cartridge – primary, carton of 6	00978973
Not shown	Water pre-filter cartridge – pre-filter, single	00130211
Not shown	Water pre-filter cartridge – pre-filter, carton of 12	00954305
<b>Carbonless high capacity filter system</b>		
Not shown	Carbonless high capacity water filter system (one per ice machine) – Horizon and Maestro series ice machines	01050442
Not shown	Carbonless high capacity water filter cartridge – primary, single	01050426
Not shown	Carbonless high capacity water filter cartridge – primary, carton of 6	01050434
Not shown	Water pre-filter cartridge – pre-filter, single	00130211
Not shown	Water pre-filter cartridge – pre-filter, carton of 12	00954305
<b>Other filtration</b>		
Not shown	Claris hardness removal filtration system	00986059
Not shown	Replacement filter for Claris system	00985127
Not shown	Reverse osmosis system, 200 gallons per day	00986034
Not shown	Replacement reverse osmosis cartridge	00985085
Not shown	Replacement reverse osmosis pre-filter	00985077
Not shown	Cleaning plug for reverse osmosis system	00985119
Not shown	Cleaning cartridge for reverse osmosis system	00985101
<b>Water pressure</b>		
Not shown	Water pressure regulator (25 psi)	501781
<b>Cleaning</b>		
Not shown	SafeClean Plus, case of 6	01149954
Not shown	SafeClean Plus, case of 24	01149962
Not shown	Sponge, sanitary	00131524
Not shown	Sponge, sanitary, pack of 24	01075431

## Ice machine electrical components



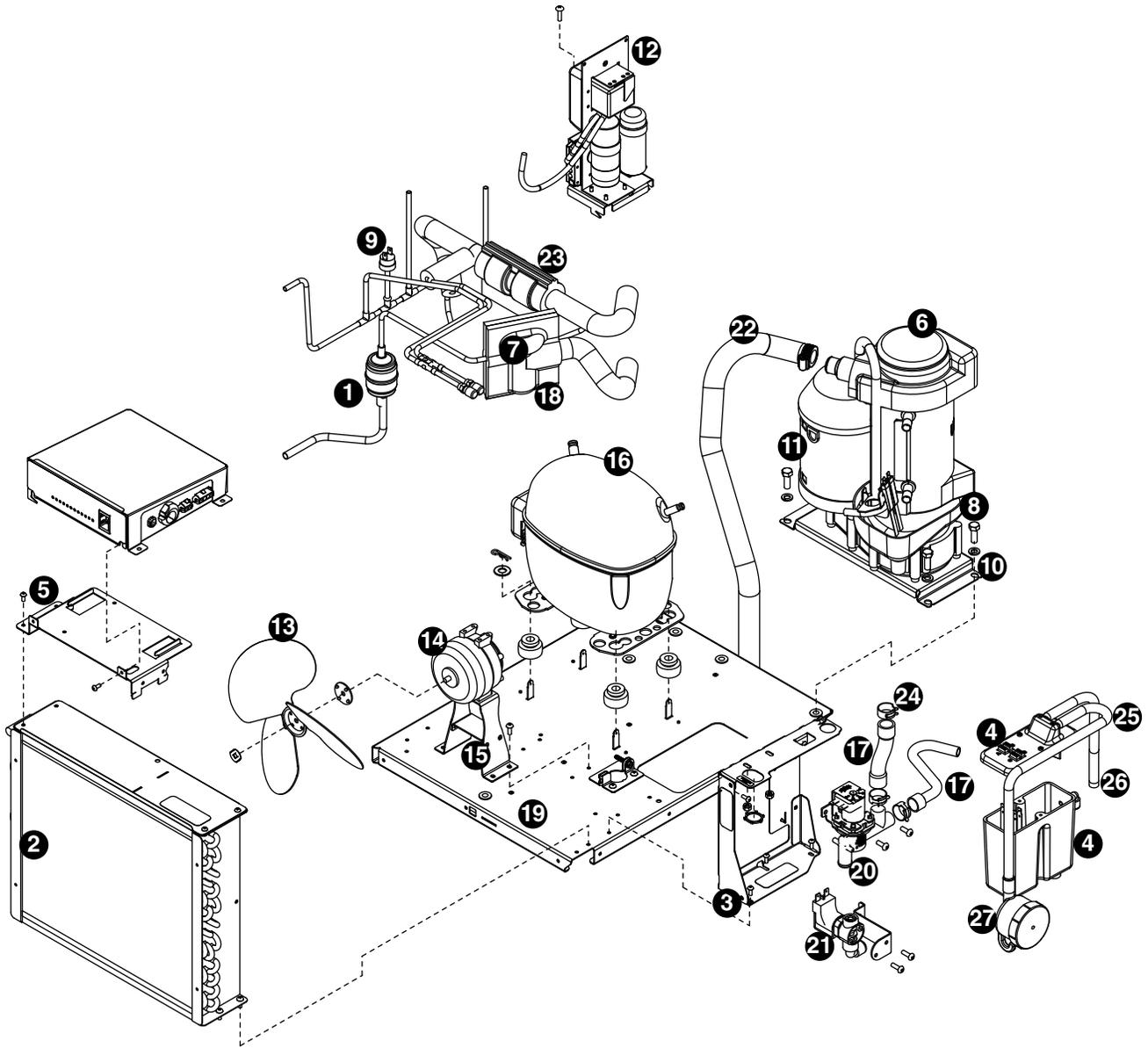
Reference #	Description	Part #
1	Capacitor, run, 230 V, 50 Hz	01087162
2	Relay start, compressor, 230 V, 50 Hz	01087154
3	Board, control circuit, 230 V, 50 Hz and 220 V, 60 Hz	01111657
4	Switch, clean	01229418
5	Stand offs, board (8 required)	00903005
6	Box, electrical, start/run components 220 V, 60 Hz	01148535
Not shown	Relay, bin signal (power to contact closure)	01020734
Not shown	Jumper, bin signal	01069095

Air-cooled ice machines - 230 V 50 Hz



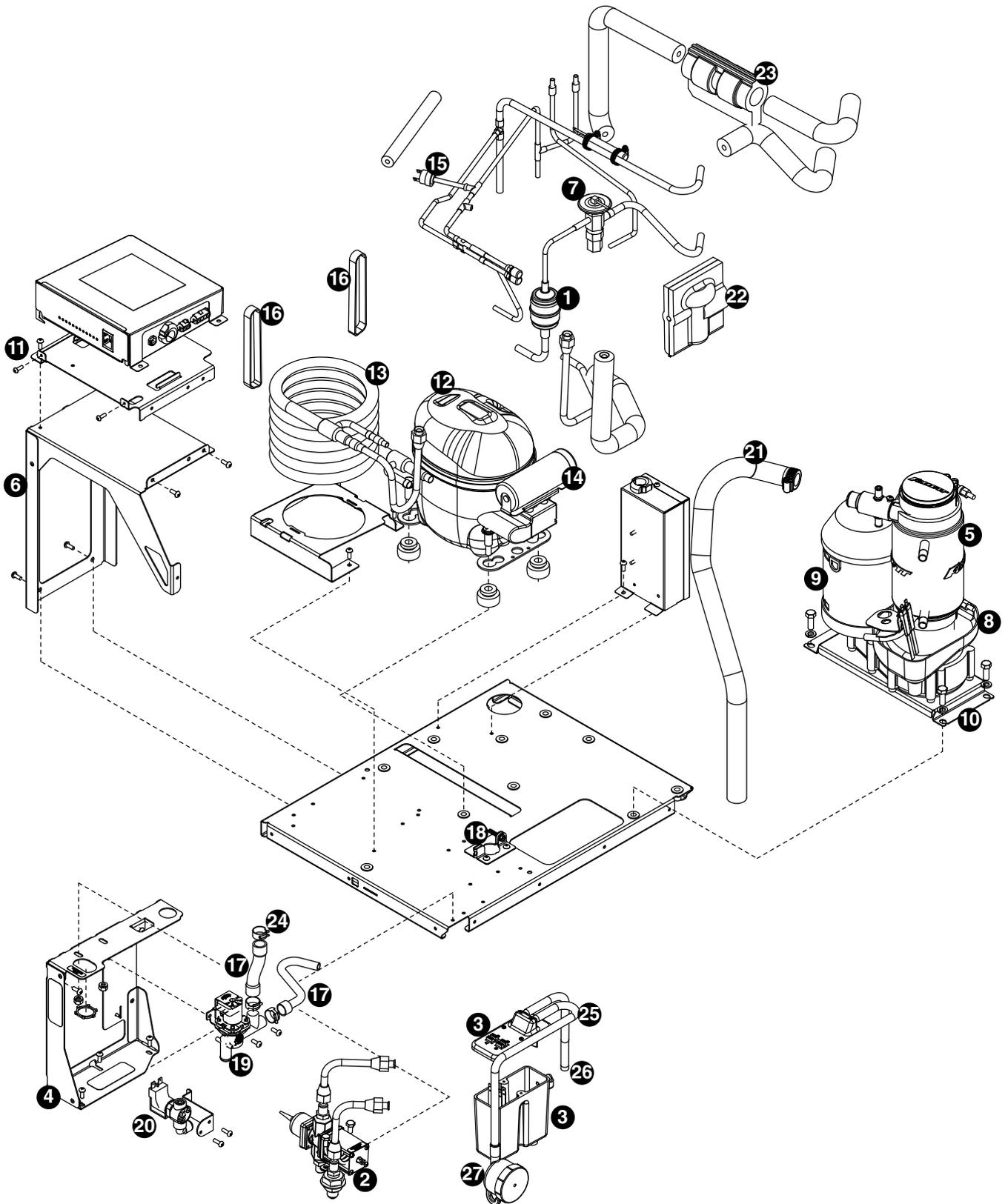
Reference #	Description	Part #
1	Drier	502724
2	Condenser coil, A/C	01067461
3	Reservoir mounting bracket, a/c (After S/N L90016)	01375609
4	Reservoir assembly (includes lid, gasket, fasteners)	01448596
5	Bracket, electrical box	01068170
6	Evaporator (see page 37 and 38 for complete breakdown)	—
Not shown	Tubing, polypropylene, reservoir supply (sold by foot)	502079
7	Valve, expansion, thermal	502726
8	Drain pan, evaporator	00181990
9	High pressure cutout	00117077
10	Mounting bracket, gearbox	01067693
11	Gearbox & motor assembly, 230 V, 50 Hz and 220V, 60 Hz	502832
12	Capacitor and end cap (230 V, 50 Hz)	01443803
13	Fan, 5-bladed	01191410
14	Motor, fan, 230 V, 50 Hz and 220 V, 60 Hz	00149765
15	Bracket, fan motor	01067107
Not shown	Overload, compressor, 230 V, 50 Hz	01087188
16	Compressor, 230 V, 50 Hz	01111665
17	Tube, fill/purge - reservoir-solenoid-evaporator feed (includes 3 hose clamps)	01261544
Not shown	Water inlet fitting, brass	01065275
Not shown	Fitting, reservoir, plastic 1/4" stem x 1/4" push-in	00121699
18	Jacket, insulation, TXV	502830
19	Bracket, ice tube entry	01067644
20	Solenoid, purge	01261528
21	Solenoid, fill (After S/N L90016)	01398981
Not shown	Tube, drain, MCE425AxT	01055185
Not shown	Tube, drain, MCE425AxS	01016948
22	Tube, ice transport, MCE425A/WxT	01003532
23	Jacket, insulation, TXV bulb	00106534
Not shown	Gasket, reservoir	01448612
Not shown	Valve, check, 1/4"	01122381
24	Clamp, hose (each)	01281450
25	Cleaning cup tube	01448562
26	Reservoir vent tube	01448570
27	Cleaning cup	01448588

Air-cooled ice machines - 220 V 60 Hz



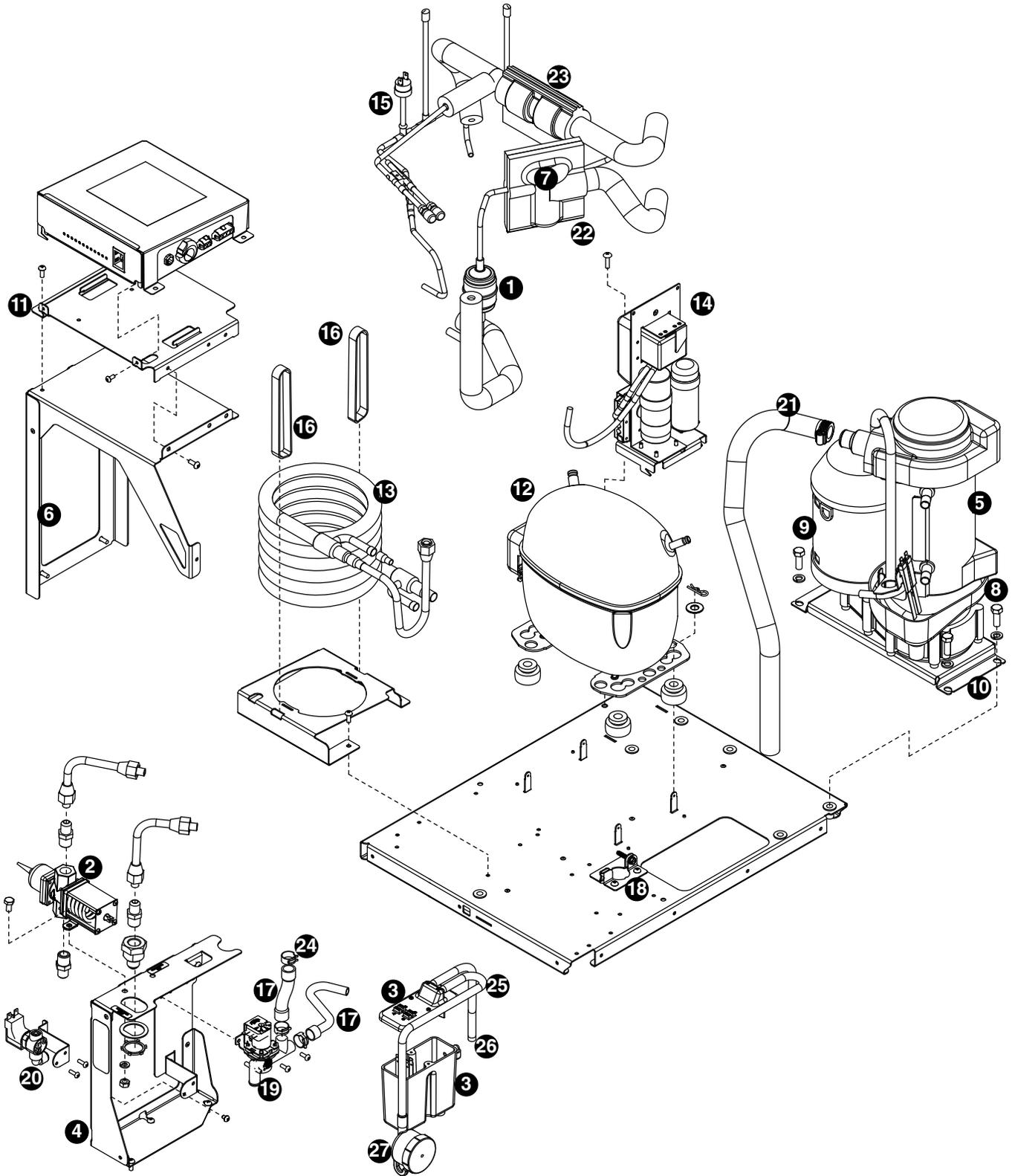
Reference #	Description	Part #
1	Drier	502724
2	Condenser coil, A/C	01067461
3	Reservoir mounting bracket, a/c (After S/N L90016)	01375609
4	Reservoir assembly (includes lid, gasket, fasteners)	01448596
5	Bracket, electrical box	01068170
6	Evaporator (see page 37 and 38 for complete breakdown)	—
Not shown	Tubing, polypropylene, reservoir supply (sold by foot)	502079
7	Valve, expansion, thermal	502726
8	Drain pan, evaporator	00181990
9	High pressure cutout	00117077
10	Mounting bracket, gearbox	01067693
11	Gearbox & motor assembly, 230 V, 50 Hz and 220V, 60 Hz	502832
12	Box, electrical, start/run components, 220 V, 60 Hz	01148535
13	Fan, 5-bladed	01191410
14	Motor, fan, 230 V, 50 Hz and 220 V, 60 Hz	00149765
15	Bracket, fan motor	01067107
16	Compressor, 220 V, 60 Hz, internal overload	01148527
17	Tube, fill/purge - reservoir-solenoid-evaporator feed (includes 3 hose clamps)	01261544
Not shown	Water inlet fitting, brass	01065275
Not shown	Fitting, reservoir, plastic 1/4" stem x 1/4" push-in	00121699
18	Jacket, insulation, TXV	502830
19	Bracket, ice tube entry	01067644
20	Solenoid, purge	01261528
21	Solenoid, fill (After S/N L90016)	01398981
Not shown	Tube, drain, MCE425AxT	01055185
Not shown	Tube, drain, MCE425AxS	01016948
22	Tube, ice transport, MCE425A/WxT	01003532
23	Jacket, insulation, TXV bulb	00106534
Not shown	Gasket, reservoir	01448612
Not shown	Valve, check, 1/4"	01122381
24	Clamp, hose (each)	01281450
25	Cleaning cup tube	01448562
26	Reservoir vent tube	01448570
27	Cleaning cup	01448588

# Water-cooled ice machines - 230 V 50 Hz



Reference #	Description	Part #
1	Drier	502724
2	Valve, water regulating (includes Iso-washer)	500537
Not shown	Iso-washer (for water regulating valve)	501810
3	Reservoir assembly (includes lid, gasket, fasteners)	01448596
4	Reservoir mounting bracket, a/c (After S/N L90016)	01375609
Not shown	Tubing, polypropylene, reservoir supply (sold by foot)	502079
Not shown	Fitting, reservoir, plastic 1/4" stem x 1/4" push-in	00121699
5	Evaporator (see page 32 and 33 for complete breakdown)	—
6	Bracket, electrical box tower	01068121
7	Valve, expansion, thermal	502726
8	Drain pan, evaporator	00181990
9	Gearbox & motor assembly, 230 V, 50 Hz and 220 V, 60 Hz	502832
10	Mounting bracket, gearbox	01067693
11	Bracket, electrical box mounting	01068139
Not shown	Overload compressor, 230 V, 50 Hz	01087188
12	Compressor, 230 V, 50 Hz	01111665
13	Coil, condenser	00195933
14	Capacitor and end cap (230 V, 50 Hz)	01443803
Not shown	Water inlet fitting, brass	01065275
15	High pressure cutout	00117077
16	Ty-rap (2 required)	204584
17	Tube, fill/purge - reservoir-solenoid-evaporator feed (includes 3 hose clamps)	01261544
18	Bracket, ice tube entry	01067644
19	Solenoid, purge	01261528
20	Solenoid, fill (After S/N L90016)	01398981
Not shown	Tube, drain, 25/50CI	01054576
Not shown	Tube, drain, MCE425AxT	01055185
Not shown	Tube, drain, MCE425AxS	01016948
21	Tube, ice transport, MCE425A/WxT	01003532
22	Jacket, insulation, TXV	502830
23	Jacket, insulation, TXV bulb	00106534
Not shown	Gasket, reservoir	01448612
Not shown	Valve, check, 1/4"	01122381
24	Clamp, hose (each)	01281450
25	Cleaning cup tube	01448562
26	Reservoir vent tube	01448570
27	Cleaning cup	01448588

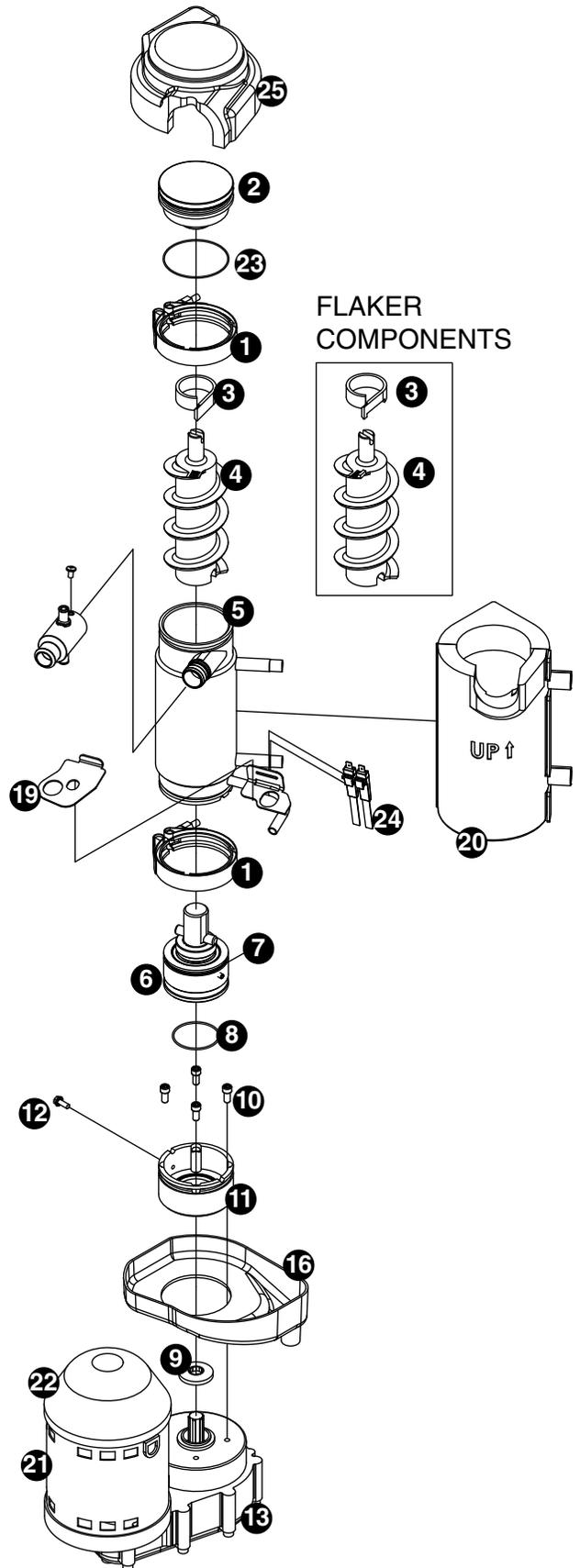
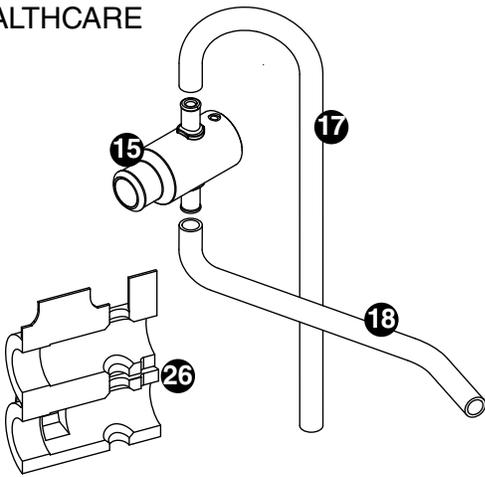
Water-cooled ice machines - 220 V 60 Hz



Reference #	Description	Part #
1	Drier	502724
2	Valve, water regulating (includes Iso-washer)	500537
Not shown	Iso-washer (for water regulating valve)	501810
3	Reservoir assembly (includes lid, gasket, fasteners)	01448596
4	Reservoir mounting bracket, a/c (After S/N L90016)	01375609
Not shown	Tubing, polypropylene, reservoir supply (sold by foot)	502079
Not shown	Fitting, reservoir, plastic 1/4" stem x 1/4" push-in	00121699
5	Evaporator (see page 32 and 33 for complete breakdown)	—
6	Bracket, electrical box tower	01068121
7	Valve, expansion, thermal	502726
8	Drain pan, evaporator	00181990
9	Gearbox & motor assembly, 230 V, 50 Hz and 220 V, 60 Hz	502832
10	Mounting bracket, gearbox	01067693
11	Bracket, electrical box mounting	01068139
12	Compressor, 220 V, 60 Hz, internal overload	01148527
13	Coil, condenser	00195933
14	Box, electrical, start/run components, 220 V, 60 Hz	01148535
Not shown	Water inlet fitting, brass	01065275
15	High pressure cutout	00117077
16	Ty-rap (2 required)	204584
17	Tube, fill/purge - reservoir-solenoid-evaporator feed (includes 3 hose clamps)	01261544
18	Bracket, ice tube entry	01067644
19	Solenoid, purge	01261528
20	Solenoid, fill (After S/N L90016)	01398981
Not shown	Tube, drain, 25/50CI	01054576
Not shown	Tube, drain, MCE425AxT	01055185
Not shown	Tube, drain, MCE425AxS	01016948
21	Tube, ice transport, MCE425A/WxT	01003532
22	Jacket, insulation, TXV	502830
23	Jacket, insulation, TXV bulb	00106534
Not shown	Gasket, reservoir	01448612
Not shown	Valve, check, 1/4"	01122381
24	Clamp, hose (each)	01281450
25	Cleaning cup tube	01448562
26	Reservoir vent tube	01448570
27	Cleaning cup	01448588

# Evaporator replacement parts

HEALTHCARE



Reference #	Description	Part #
1	Coupling, vee band, includes nut	502735
2	Bearing assembly, top	502736
3	Loop, ice compression, beveled (see below for Flaker-specific components)	502110
4	Auger (see below for Flaker-specific components)	502737
5	Evaporator (includes insulation jacket, 502740)	01064658
6	Bearing assembly, bottom (includes O rings and condensate shield)	502738
7	O ring, bearing housing	500496
8	O ring, mounting base	501063
9	Shield, condensate	500744
10	Screw, Allen 1/4 20 x 1/2 (set of 4)	501080
11	Mounting base, evap. (includes 501063)	502733
12	Bolt, mounting base	502227
13	Gearbox & motor	502832
Not shown	Mounting base, gearbox	01067693
15	Compression nozzle, with single drain	01064674
16	Drain pan, evaporator	00181990
17	Tube, compression nozzle vent	01148691
18	Tube, compression nozzle, single drain	01148675
Not shown	Grease, Mobil FM222, 14 oz	501111
19	Bracket, vent hoses	01007087
20	Insulation jacket, evaporator	01049592
21	Relay, gearmotor	00120055
22	Cover, black plastic	01012228
23	O ring, top bearing	01064963
24	Sensor, overflow	01039783
25	Insulation, top bearing	01049600
26	Insulation, compression nozzle, single drain	01049584





## Warranty Registration and Equipment Evaluation

Thank you for purchasing Follett® equipment. We hope you find that our equipment meets or exceeds your expectations, as our goal is to deliver high value products and services that earn your complete satisfaction!

Please review the enclosed installation and operations manual. It is important that the installation be performed to factory specifications, so your equipment operates to its maximum efficiency.

Follett LLC will not be liable for any consequential damages, expenses, connecting or disconnecting charges or any losses resulting from a defect of the machine.

For full warranty details, visit our website [www.follettice.com/productwarranties](http://www.follettice.com/productwarranties).

Warranty registration and equipment evaluation is important to help us keep track of our equipment and to record the machine's performance. We request that you register Follett equipment warranties on our website [www.follettice.com/support](http://www.follettice.com/support) and choose Warranty Registration and Equipment Evaluation. It's simple to do; please take a moment to register today. There is also space on the form to provide us with comments and feedback. Please let us know about your experience so we can capture it for our continuous improvement efforts.

We pride ourselves on producing outstanding equipment and we work hard to back it up with outstanding customer and technical support. Please let us know what else we can do to assist you. We would be happy to answer your questions.