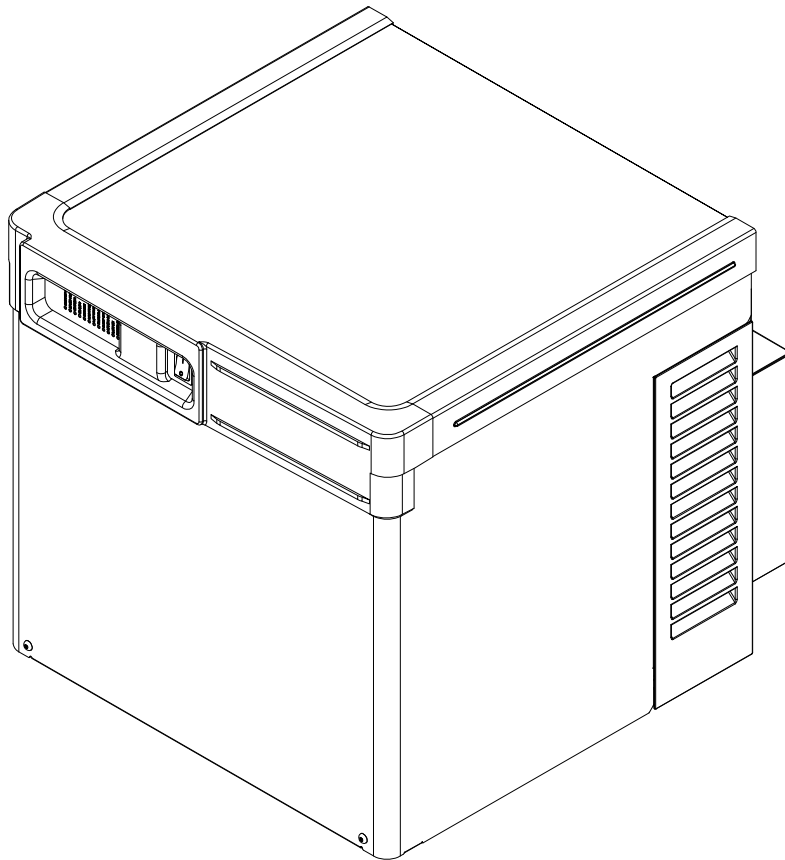


# D1810R, D2110R Horizon Elite™ Ice Machines (Remote Condensing)

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Order parts online  
[www.follettice.com](http://www.follettice.com)

## Operation and Service Manual



Following installation, please forward this manual  
to the appropriate operations person.



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**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 the same degree of service, we ask that you review the installation manual (provided as a separate document) before beginning to install the unit. Our instructions are designed to help you achieve a trouble-free installation. Should you have any questions or require technical help at any time, please call our technical service group at (877) 612-5086 or +1 (610) 252-7301.

## Before you begin

After uncrating and removing all packing material, inspect the equipment for concealed shipping damage. If damage is found, notify the shipper immediately and contact Follett LLC so that we can help in the filing of a claim, if necessary.

Check your paperwork to determine which model you have.

**CAUTION**

- Warranty does not cover exterior or outside installations.
- Moving parts. Do not operate with front cover removed.
- Hot parts. Do not operate with cover removed.
- To reduce risk of shock, disconnect power before servicing.
- Drain line must not be vented.
- Water supply must have particle filtration.
- Most ice machine cleaners contain citric or phosphoric acid, which can cause skin irritation. Read caution label on product and follow instructions carefully.
- 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

### Electrical

Separate, dedicated circuit and equipment ground required.

### Evaporator unit

Standard electrical: 115/60/1

Maximum fuse: 15A

Amperage: 5A

### Condensing unit

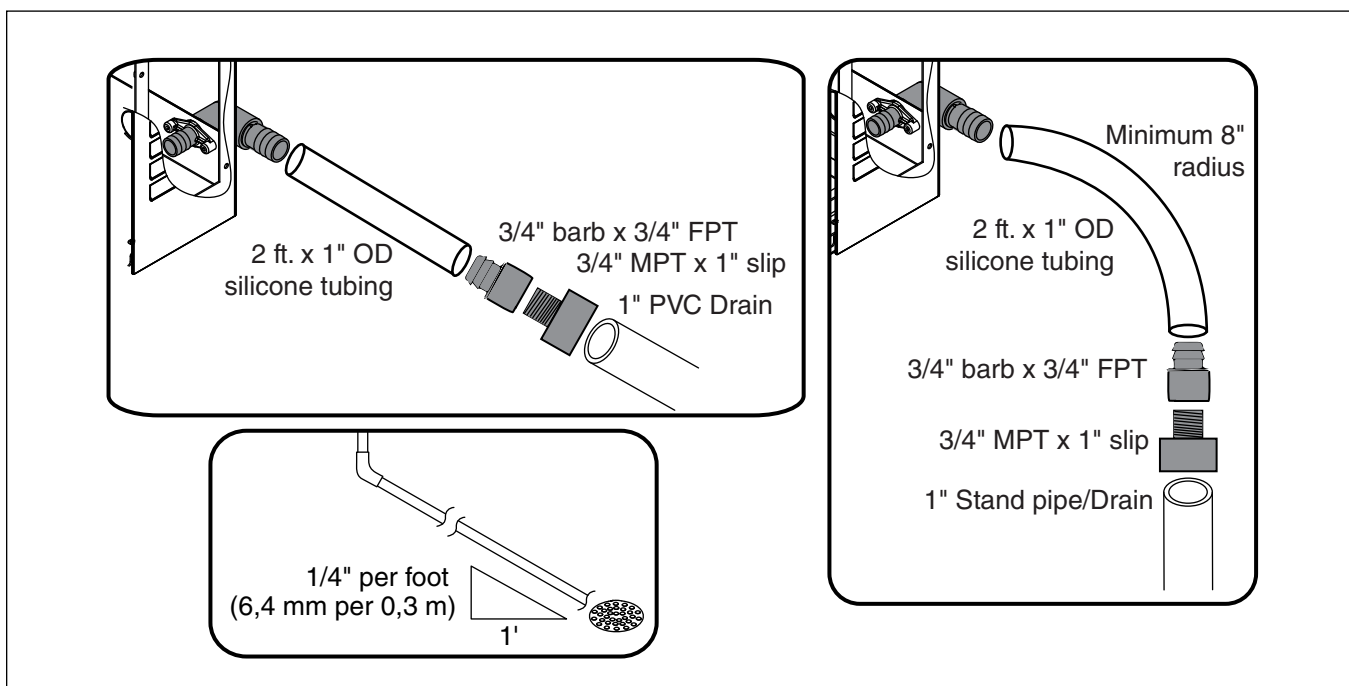
|                                | 1810 Single-Phase | 1810 3-Phase | 2110 Single-Phase | 2110 3-Phase |
|--------------------------------|-------------------|--------------|-------------------|--------------|
| Electrical                     | 208-230V, 60Hz    |              |                   |              |
| Max Circuit HVACR breaker size | 45A               | 25A          | 45A               | 30A          |
| Min Circuit Ampacity           | 26.2A             | 15.7A        | 27.1A             | 19.9A        |

### Evaporator plumbing

- 3/8" OD push-in water inlet - 3/8" OD tubing required.
- Water shut-off recommended within 10 feet (3 m).
- Follett recommends installation of Follett water filter system (part# 00130286) in ice machine inlet water line.

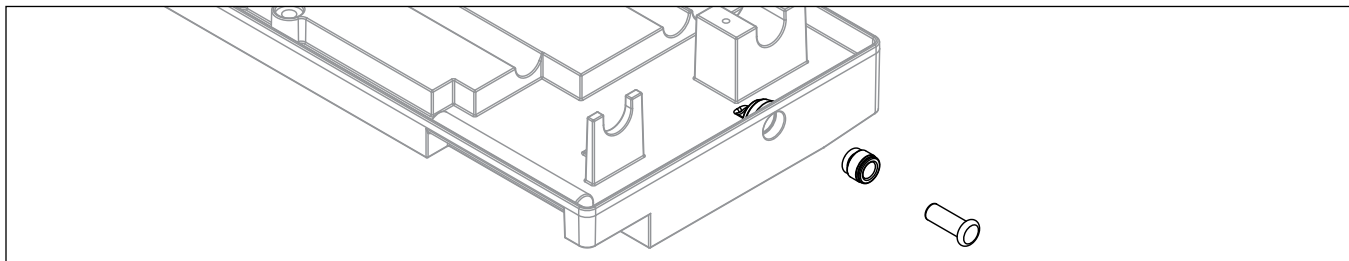
### Flush drain plumbing

- 3/4" MPT flush drain connection at the rear of the machine.
- Drain must slope 1/4" per foot (6 mm per 30.4 cm).
- Drain line should not be shared with any other piece of equipment.
- Drain line cannot be reduced to a size smaller than 1".
- Drain should be piped without a vent.



## Chassis drain plumbing

- Plug must be removed from John Guest fitting.
- Route 3/8" drain tubing through knockout in back of docking station and insert fully into John Guest fitting connection at the rear of the machine chassis. Route other end of 3/8" drain tubing to drain.
- Drain must slope 1/4" inch per foot (6 mm per 30.4 cm).



## Ambient

### Evaporator unit

|                   |                       |                      |
|-------------------|-----------------------|----------------------|
| Air temperature   | 100 F/38 C max.       | 50 F/10 C min.       |
| Water temperature | 90 F/32 C max.        | 45 F/7 C min.        |
| Water pressure    | 70 psi max. (483 kPa) | 10 psi min. (69 kPa) |

### Condenser unit

|                 |                 |                |
|-----------------|-----------------|----------------|
| Air temperature | 120 F/49 C max. | -20F/-29C min. |
|-----------------|-----------------|----------------|

## Refrigeration

- 3/8" liquid line
- 7/8" suction line

**Note:** Rack system installations require a capacity of 15,700 BTU/hr for 1810 machines and 18,200 BTU/hr for 2110 machines at 0 F (-18 C) evaporator temperature. Evaporator pressure regulator (not supplied) is required.

## Weight

Evaporator unit:

1810: 157 lbs (71.2 kg)

2110: 165 lbs (74.8 kg)

Condensing unit: 305 lbs (138.3 kg)

## Ice production

1810 ice machine capacity/24 hrs.

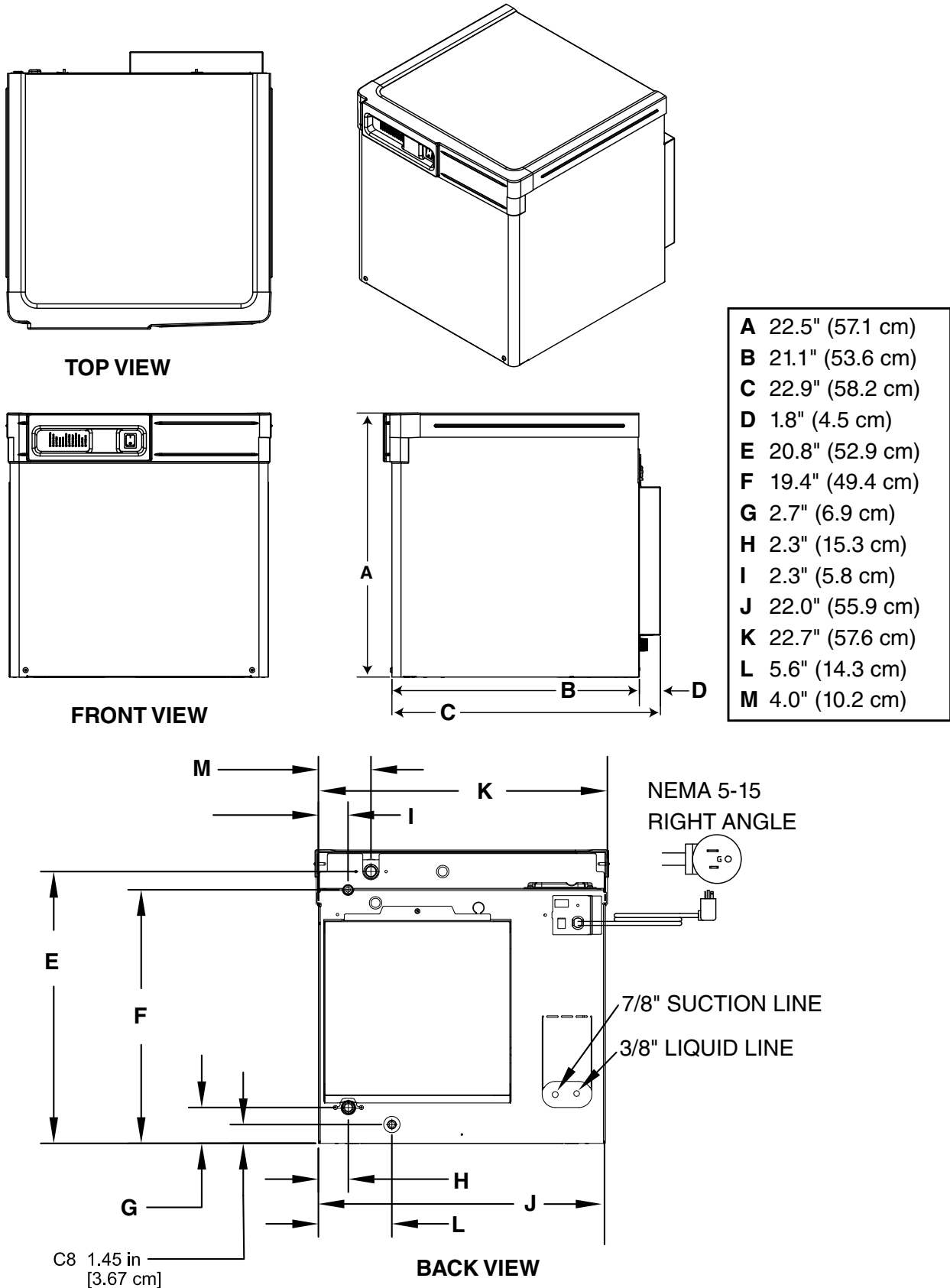
| Ambient Air Temperature F/C        |    |      |      |      |      |      |     |
|------------------------------------|----|------|------|------|------|------|-----|
| Evap Potable Water Temperature F/C | F  | 60   | 70   | 80   | 90   | 100  |     |
|                                    | C  | 16   | 21   | 27   | 32   | 38   |     |
|                                    | 50 | 1859 | 1784 | 1685 | 1616 | 1500 | lbs |
|                                    | 10 | 843  | 809  | 764  | 733  | 680  | kg  |
|                                    | 60 | 1723 | 1684 | 1578 | 1563 | 1409 | lbs |
|                                    | 16 | 782  | 764  | 716  | 709  | 639  | kg  |
|                                    | 70 | 1620 | 1594 | 1514 | 1420 | 1319 | lbs |
|                                    | 21 | 734  | 723  | 687  | 644  | 598  | kg  |
|                                    | 80 | 1550 | 1487 | 1485 | 1351 | 1299 | lbs |
|                                    | 27 | 703  | 674  | 674  | 613  | 589  | kg  |
|                                    | 90 | 1471 | 1435 | 1370 | 1285 | 1207 | lbs |
|                                    | 32 | 667  | 651  | 621  | 583  | 547  | kg  |

2110 ice machine capacity/24 hrs.

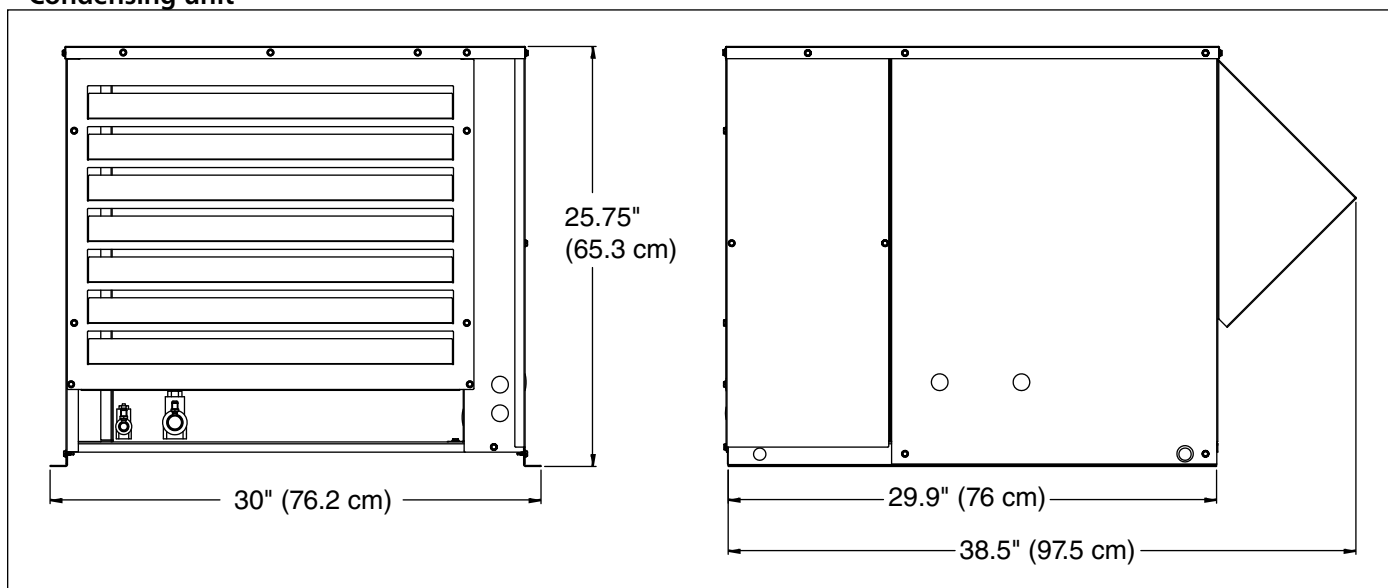
| Ambient Air Temperature F/C        |    |      |      |      |      |      |     |
|------------------------------------|----|------|------|------|------|------|-----|
| Evap Potable Water Temperature F/C | F  | 60   | 70   | 80   | 90   | 100  |     |
|                                    | C  | 16   | 21   | 27   | 32   | 38   |     |
|                                    | 50 | 2039 | 2039 | 1934 | 1825 | 1703 | lbs |
|                                    | 10 | 925  | 925  | 877  | 828  | 772  | kg  |
|                                    | 60 | 1943 | 1888 | 1878 | 1710 | 1584 | lbs |
|                                    | 16 | 881  | 856  | 852  | 772  | 718  | kg  |
|                                    | 70 | 1833 | 1781 | 1689 | 1634 | 1489 | lbs |
|                                    | 21 | 831  | 808  | 811  | 741  | 675  | kg  |
|                                    | 80 | 1754 | 1686 | 1643 | 1535 | 1426 | lbs |
|                                    | 27 | 796  | 765  | 745  | 696  | 647  | kg  |
|                                    | 90 | 1650 | 1603 | 1577 | 1457 | 1395 | lbs |
|                                    | 32 | 748  | 727  | 715  | 661  | 633  | kg  |

## Dimensions and clearances

- Entire front of ice machine must be clear of obstructions/connections to allow removal.
- 1" (26mm) clearance above ice machine for service.
- 1" (26mm) minimum clearance on sides.



## Condensing unit





## Operation

### Cleaning/sanitizing and preventive maintenance (all models)

**Note:** Do not use bleach to sanitize or clean the icemaker.

#### Preventive maintenance

Periodic cleaning of Follett's icemaker 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.

Cleaning of the condenser can usually be performed by facility personnel. Cleaning of the icemaker system, in most cases, should be performed by your facility's 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.

#### Weekly exterior care

The exterior may be cleaned with a stainless cleaner such as 3M Stainless Steel Cleaner & Polish or equivalent.

#### Monthly condenser cleaning (air-cooled icemaker only)

1. Use a vacuum cleaner or stiff brush to carefully clean condenser coils of air-cooled icemakers to ensure optimal performance.
2. When reinstalling counter panels in front of remote icemakers, be sure that ventilation louvers line up with condenser air duct.

#### Semi-annual evaporator cleaning (every 6 months)



#### WARNING

- Wear rubber gloves and safety goggles (and/or face shield) when handling ice machine cleaner or sanitizer.



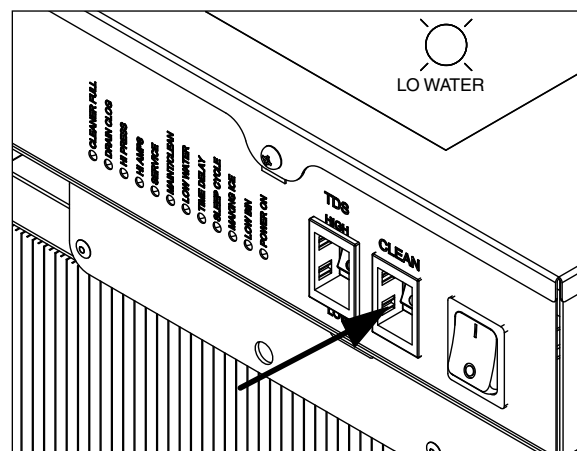
#### CAUTION

- Use only Follett approved SafeCLEAN Plus™ cleaning solution.
- DO NOT USE BLEACH.
- It is a violation of Federal law to use these solutions in a manner inconsistent with their labeling.
- Read and understand all labels printed on packaging before use.

**Note: Complete procedure for cleaning and sanitizing MUST be followed. Ice must be collected for 10 minutes before putting ice machine back into service.**

Fig. 1

1. Note position of TDS switch. Set to HIGH for duration of cleaning. Press the CLEAN button. The machine will drain. The auger will run for a short time and then stop. Wait for the LOW WATER light to come on.



- Note:** Do not use bleach to sanitize or clean the icemaker.

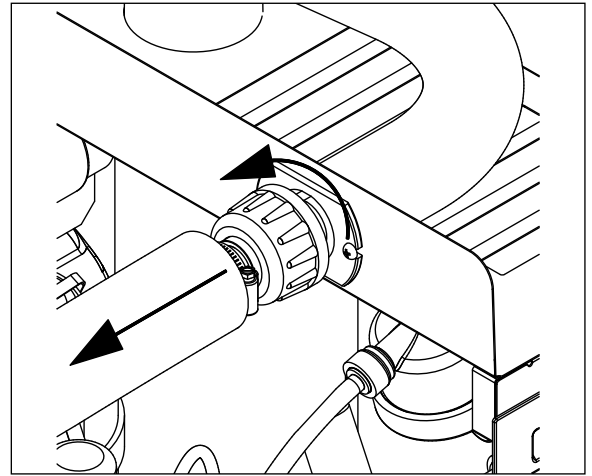
Diagram illustrating the internal components of the machine, including the water inlet valve and the detergent dispenser. A line connects the detergent dispenser to a small container labeled "CLEANER FULL".

- 

- 
- CLEANERY FULL  
 ○ DRAIN FLOOD  
 ○ HI PRESS  
 ○ HI TEMP  
 ○ SERVICE  
 ○ MINUTOLIN  
 ○ LOW WATER  
 ○ TIME DELAY  
 ○ CAMP CYCLE  
 ○ MAKING ICE  
 ○ LOW PIN  
 ○ POWER ON
- TDS HIGH  
 CLEAN  
 LOW

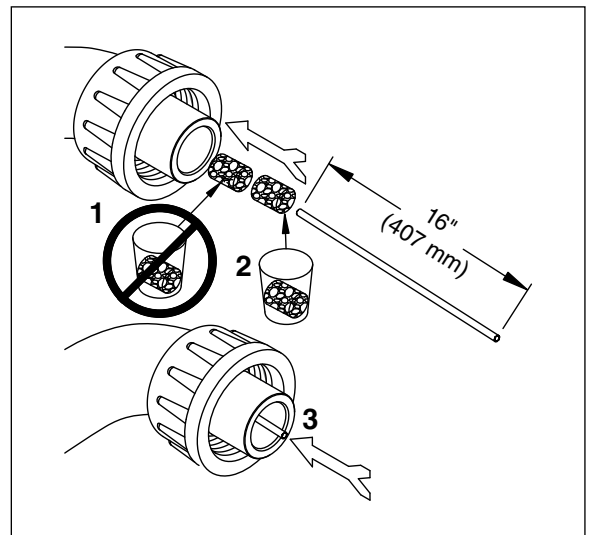
7. Disconnect coupling as shown.

**Fig. 5**



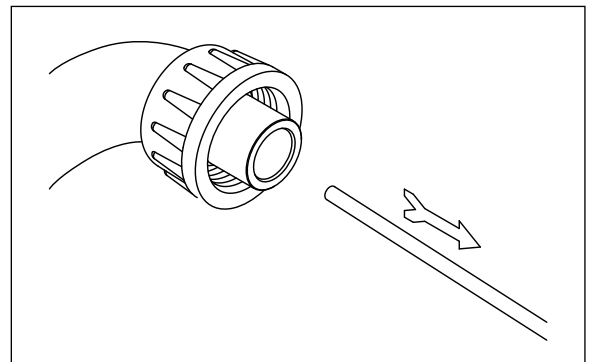
8. Using disposable foodservice grade gloves, insert both SaniSponge cleaning sponges saturated in SafeClean Plus (from Step 4).
9. Push both SaniSponge cleaning sponges down ice transport tube with supplied pusher tube.

**Fig. 6**



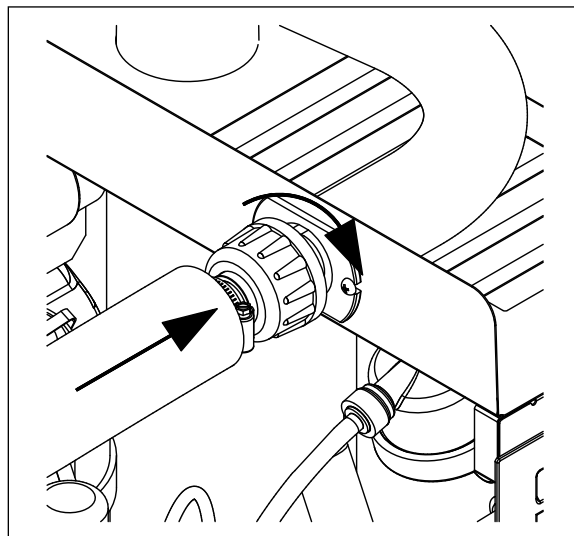
10. Remove and discard 16 inch (407 mm) pusher tube.

**Fig. 7**



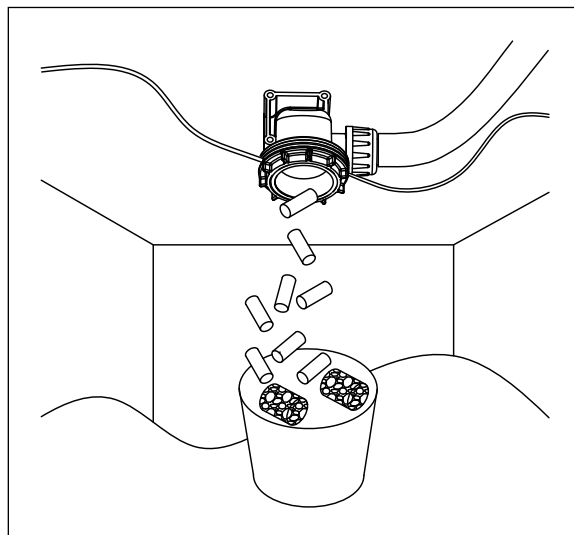
11. Reconnect coupling. Press power switch ON. Ice pushes Sani-Sponges through ice transport tube.

**Fig. 8**



12. Place a sanitary (2 gal. or larger) container in bin or dispenser to collect SaniSponge cleaning sponges and ice for 10 minutes after the Sani-Sponges come out.
13. Discard ice and Sani-Sponges. Return TDS switch to the original position.

**Fig. 9**



## Service

### Ice machine operation (all models)

Follett's ice machine consists of five distinct functional systems covered in detail as follows:

- Water system
- Electrical control system
- Mechanical assembly
- Refrigeration system
- Bin full

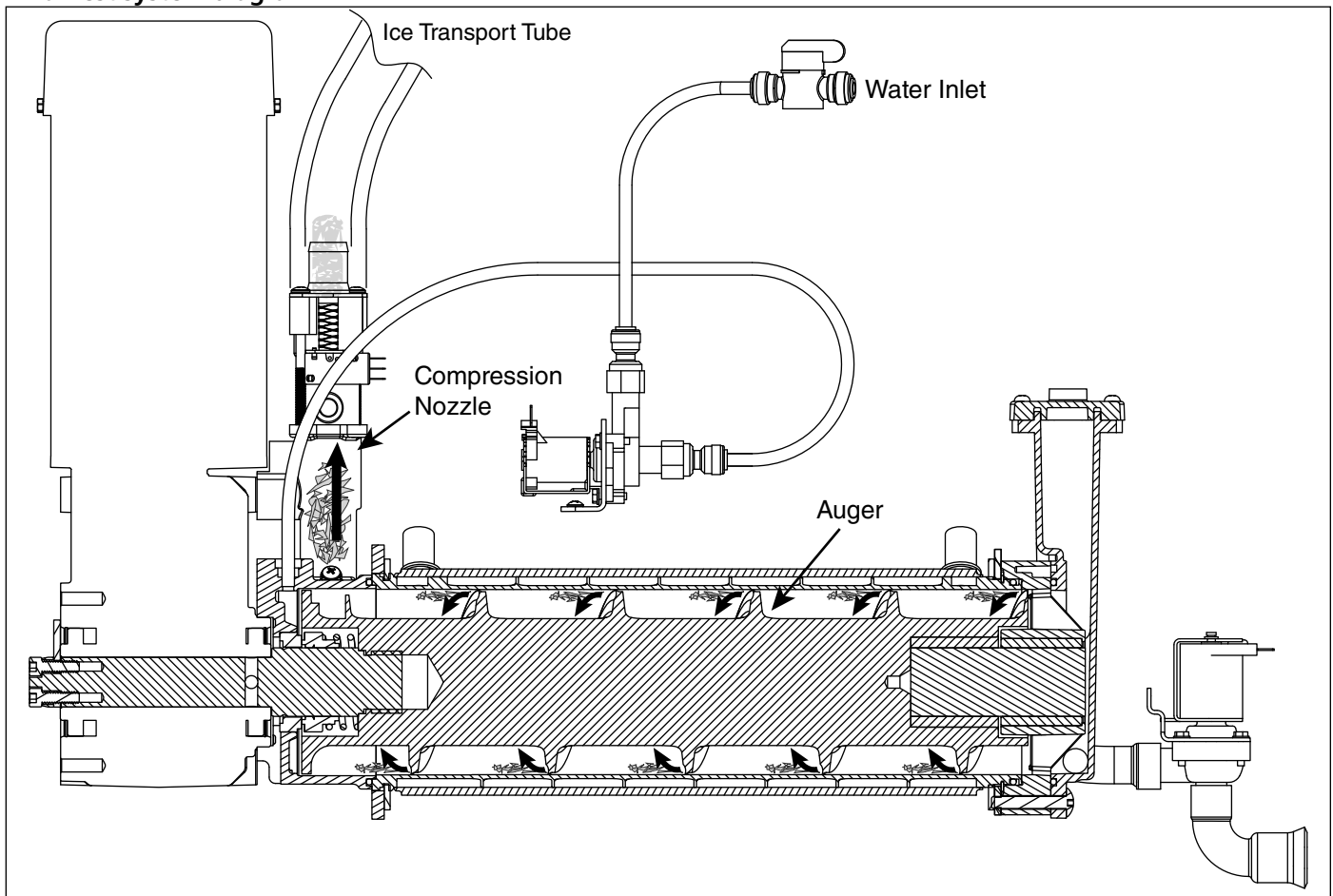
#### The Horizon ice machine overview

The Follett Horizon ice machine uses a horizontal, cylindrical evaporator to freeze water on its inner surface. The refrigeration cycle is continuous; there is no batch cycle. The evaporator is flooded with water and the level is controlled by sensors in a reservoir. A rotating auger (14 RPM) continuously scrapes ice from the inner wall of the evaporator. The auger moves harvested ice through the evaporator into an ice extrusion canal. The ice is forced through a restrictive nozzle that squeezes out the water and creates the Chewblet. The continuous extrusion process pushes the Chewblets through a transport tube into a dispenser or bin.

A solid state PC board controls and monitors the functionality of the ice machine. In addition to sequencing electrical components, the board monitors various operational parameters. A full complement of indicator lights allows visual status of the machine's operation. Additionally, the PC board controls the self-flushing feature of the ice machine. The evaporator water is periodically drained and replenished to remove minerals and sediment.

A unique "bin full" detection system is incorporated in the Horizon ice machine. A switch located at the ice discharge port of the machine detects the position of the transport tube. When the bin fills up with ice, the transport tube moves out of the normal running position, and the switch turns the ice maker off. A domed housing at the end of the transport tube contains the ice extrusion loads during shut down.

#### Harvest system diagram



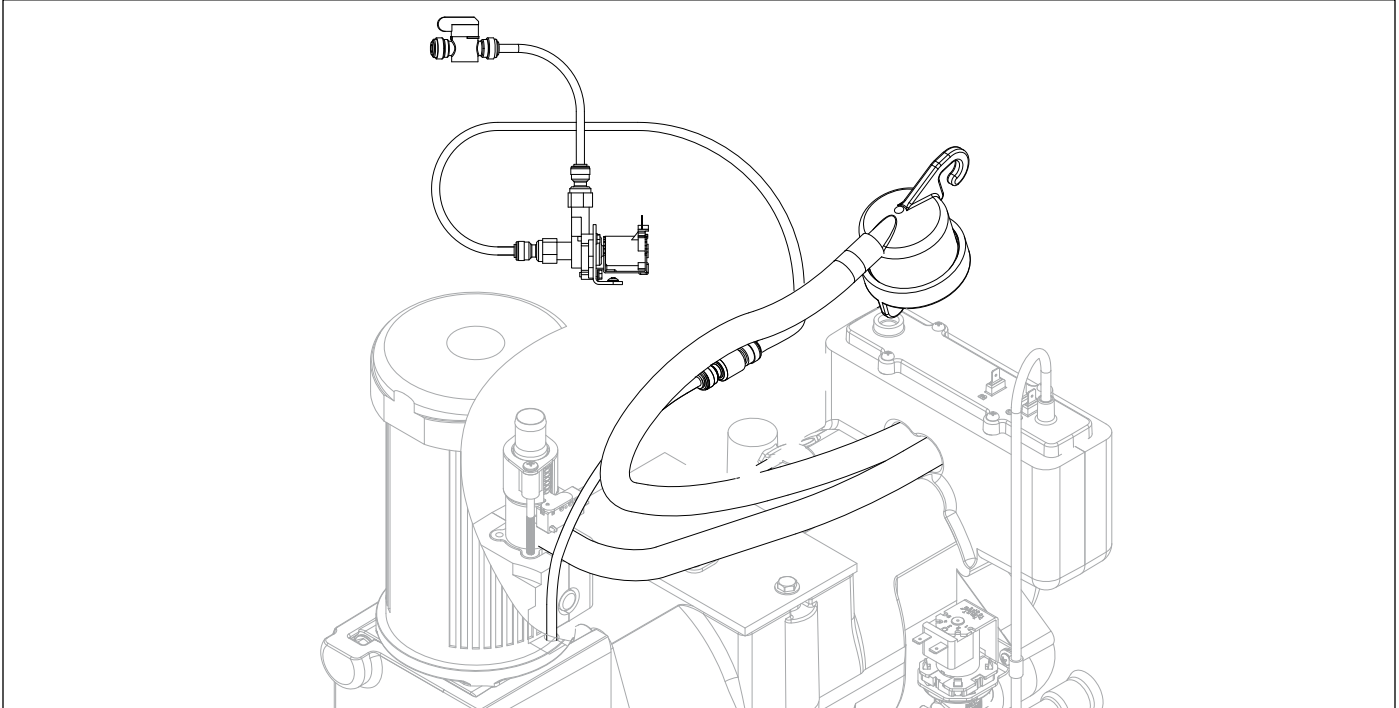
## Water system

The water level in the evaporator is controlled by a feed solenoid and level detecting sensors. Referencing the diagram below, water sensing probes extend down into the reservoir at the end of the evaporator assembly. The system works via electrical conductivity as follows:

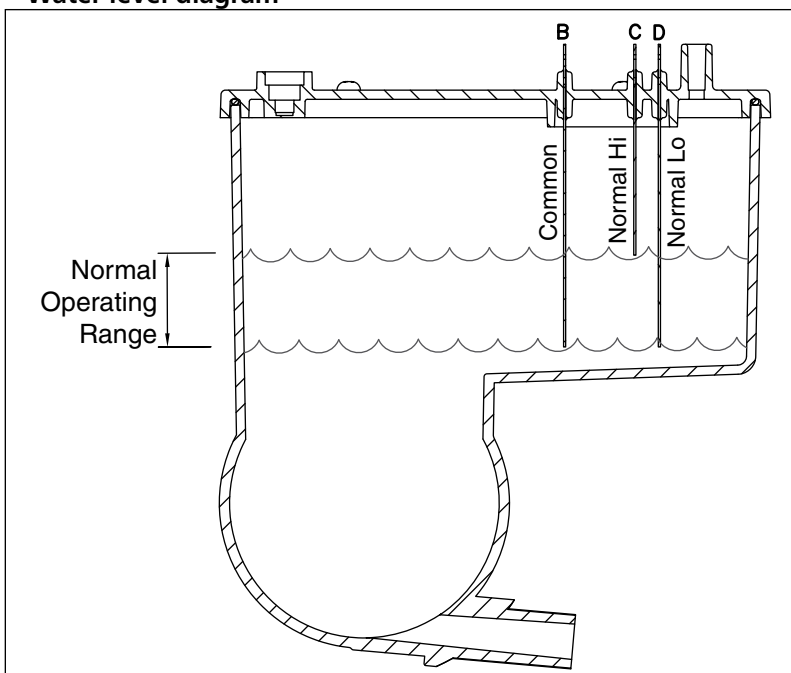
The probe labeled B is the common. When water is between any of the other probes and the common, the PC board will sense the activation. During normal operation, the water level rises and falls between the Normal High and Normal Low probes. As water is consumed to make ice, the level will fall until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

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

**Water system diagram**



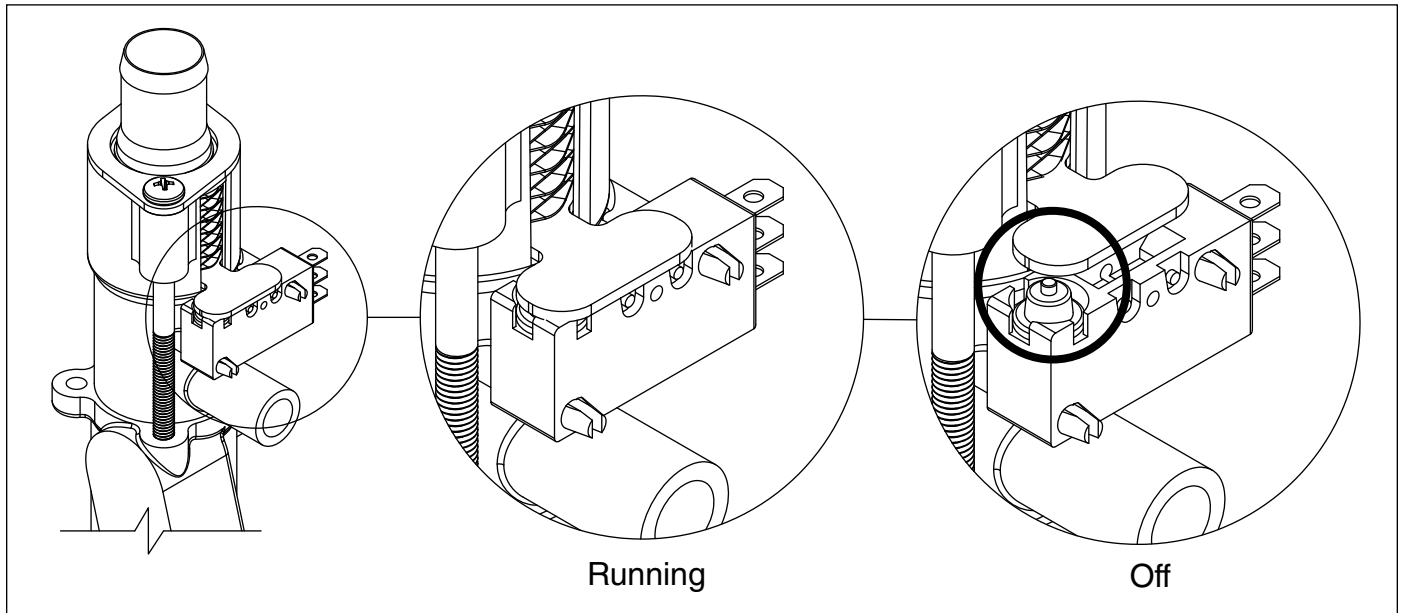
**Water level diagram**



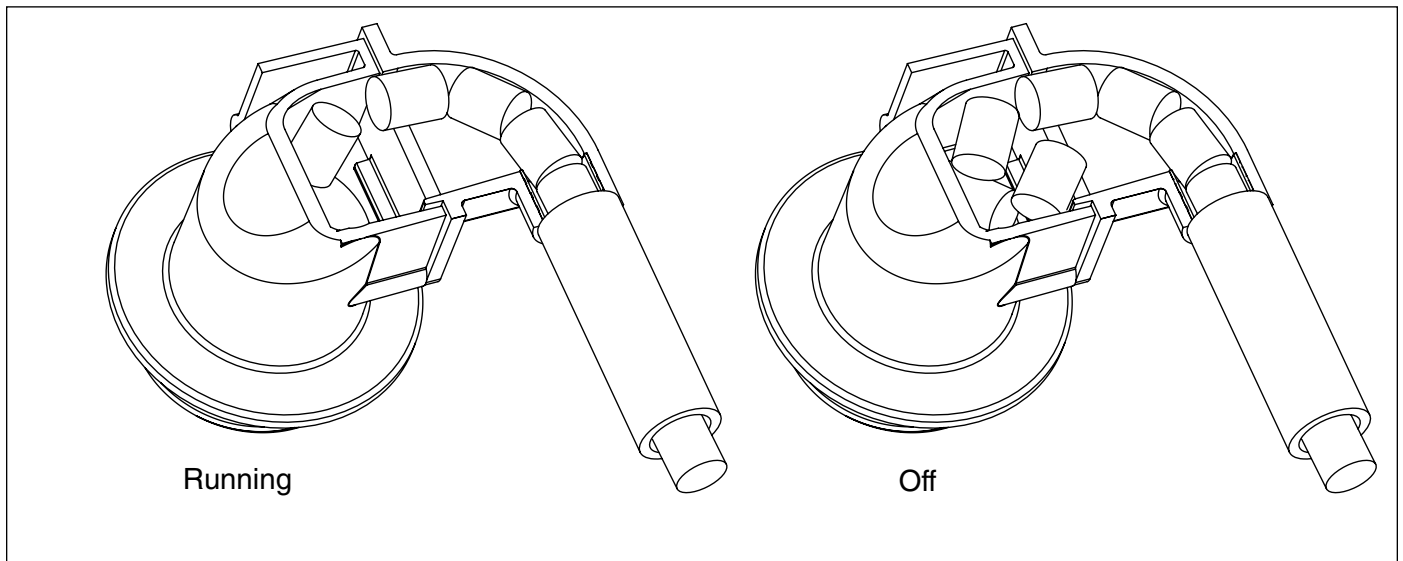
## **“Bin full” detection system**

The Follett Horizon ice machine incorporates a unique “bin full” detection system that consists of the shuttle and actuator. The shuttle incorporates a flag and switch. Referencing the figure below, the normal running position of the flag is down, and the switch is closed. When the bin fills to the top and ice can no longer move through the tube, the machine will force the shuttle flag up, opening the switch and shutting the machine off. The shuttle actuator, located above the ice bin allows the ice to curl up within it when the bin is full. In this way, there are no loads generated that would tend to lift off the lid of the bin.

### **Shuttle flag and sensor**



### **Shuttle actuator**



*To prevent circuit breaker/Hi-amp overload, wait 5 minutes before restarting this unit. This allows the compressor to equalize and the evaporator to thaw.*

The PC board indicator lights provide all the information necessary to determine the machine's status. Green indicator lights generally represent "go" or normal operation; Yellow indicators represent normal off conditions; Red indicators generally represent alarm conditions, some of which will lock the machine off.

A flashing green light labeled POWER indicates power to the machine. All other normal operation status indicators are covered as follows:

| Ice machine disposition                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Operating conditions |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--|
| Legend:    ● ON    ○ OFF    ① ON or OFF    ② FLASHING                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                      |  |
| 1. Ice machine is making ice.                                                                                                                                                                                            | 1. Normal running.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                      |  |
| 2. Ice machine is not making ice.<br><br>○ CLEANER FULL<br>○ DRAIN CLOG<br>○ HI PRESS<br>○ HI AMPS<br>○ SERVICE<br>○ MAINT/CLEAN<br>○ LOW WATER<br>● TIME DELAY<br>○ NOT USED<br>○ MAKING ICE<br>● LOW BIN<br>⊗ POWER ON | 2. Normal time delay. When the bin fills with ice, the LOW BIN light goes out momentarily and the refrigeration and auger drive systems immediately shut down. (Note: The fan motor will continue to run for 10 minutes to cool condenser) The TIME DELAY light comes on, initiating the time delay period. When the time delay expires, the machine will restart provided that the LOW BIN light is on.                                                                                           |                      |  |
| 3. Ice machine is not making ice.<br><br>○ CLEANER FULL<br>○ DRAIN CLOG<br>○ HI PRESS<br>○ HI AMPS<br>○ SERVICE<br>○ MAINT/CLEAN<br>○ LOW WATER<br>● TIME DELAY<br>○ NOT USED<br>○ MAKING ICE<br>● LOW BIN<br>⊗ POWER ON | 2. Normal Sleep Cycle. On power-up, the ice machine will make ice normally until the bin is full and then enter a normal time delay for 1 hour. At the end of time delay, the machine will begin monitoring the height of the ice pile using a thermostat. If the ice pile has fallen more than 7 inches from the top of the bin, the machine will immediately enter MAKING ICE mode. If the pile has fallen less than 7 inches the TIME DELAY LED will go off and the SLEEP CYCLE LED will light. |                      |  |

|                      | OFF                                                                               | ON                                                                                |                                     |
|----------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------|
| SET TO OFF           |  |  | NOT USED                            |
| SET TO OFF           |  |  | NOT USED                            |
| SET TO OFF           |  |  | NOT USED                            |
| SET TO OFF           |  |  | NOT USED                            |
| SET TO OFF           |  |  | NOT USED                            |
| IMDV                 |  |  | IMDV-2CM and all other applications |
| Flush disabled       |  |  | Flush enabled                       |
| Maintenance timer ON |  |  | Maintenance timer OFF               |

OFF ON

1 2 3 4 5 6 7 8



**Error faults:**

The Horizon PC board monitors various operating parameters including high pressure, auger gearmotor amperage limits, clogged drain, and low water alarm conditions. There are two types of errors, namely "soft" (time delay) and "run".

- Soft errors will automatically reset after the 1 hour time delay or can be reset by cycling power.
- Run errors will give an indication of a problem, but will allow continuous normal operation.

**Soft errors:**

**HI AMPS:** The PC board monitors the amperage of the auger motor. Should the gear motor experience current draw above the allowable limit, the machine will shut down and the TIME DELAY and HI AMP will be illuminated. After the time delay the machine will restart and the TIME DELAY and HI AMP will clear.

**LO WATER:** During operation, the water level cycles between the normal low and normal high sensors. Should the water be shut off to a running machine, a soft error will occur. The error sequence is as follows: During operation, the water level falls to the normal low sensor, and when it does the water feed solenoid is energized. If water is not detected at the normal low sensor within 30 seconds, a soft error will occur. The machine will shut down on a low water/time delay error. Should water return, it will fill to the normal low sensor and the machine will resume operation once the 1 hour time delay expires.

**Water feed error:** While in making ice mode, if the water level does not fall below the low probes for 9 minutes, the machine will enter a 1-hour time delay soft error with the LOW WATER light flashing. After the time delay expires, the machine will try to make ice.

**HI PRESSURE:** Should the refrigeration pressure rise above 425 psi, the machine will shut down and the TIME DELAY and HIGH PRESSURE will be illuminated. After the time delay, and if the pressure has fallen back below the reset point of 295 psi, the machine will restart and the TIME DELAY and HIGH PRESSURE will clear.

**DRAIN CLOG:** The drain clog sensor, located in the chassis will detect the presence of water just below the top edge of the chassis.

**Run errors:**

**DRAIN CLOG:** When the machine shuts down on a full bin and there has been 30 minutes of cumulative compressor run time, the machine will purge before starting. During this purge, if water does not get below the low probe in the reservoir within 20 seconds, the Drain Clog LED will light. The machine will continue to run but this is an indication of a poorly draining machine and must be addressed.

**Relay output indication:**

Each relay on the board has an indicator light associated with its output. For example, when the relay for the water feed solenoid is energized, the adjacent indicator light glows green.

**Evaporator flushing sequence:**

During operation, the purge solenoid will open in order to drain water. There are two drain settings to choose from: High TDS or Low TDS. (There is a rocker switch behind the front cover of the machine.) The intent is to drain the Total Dissolved Solids from the machine while it makes ice.

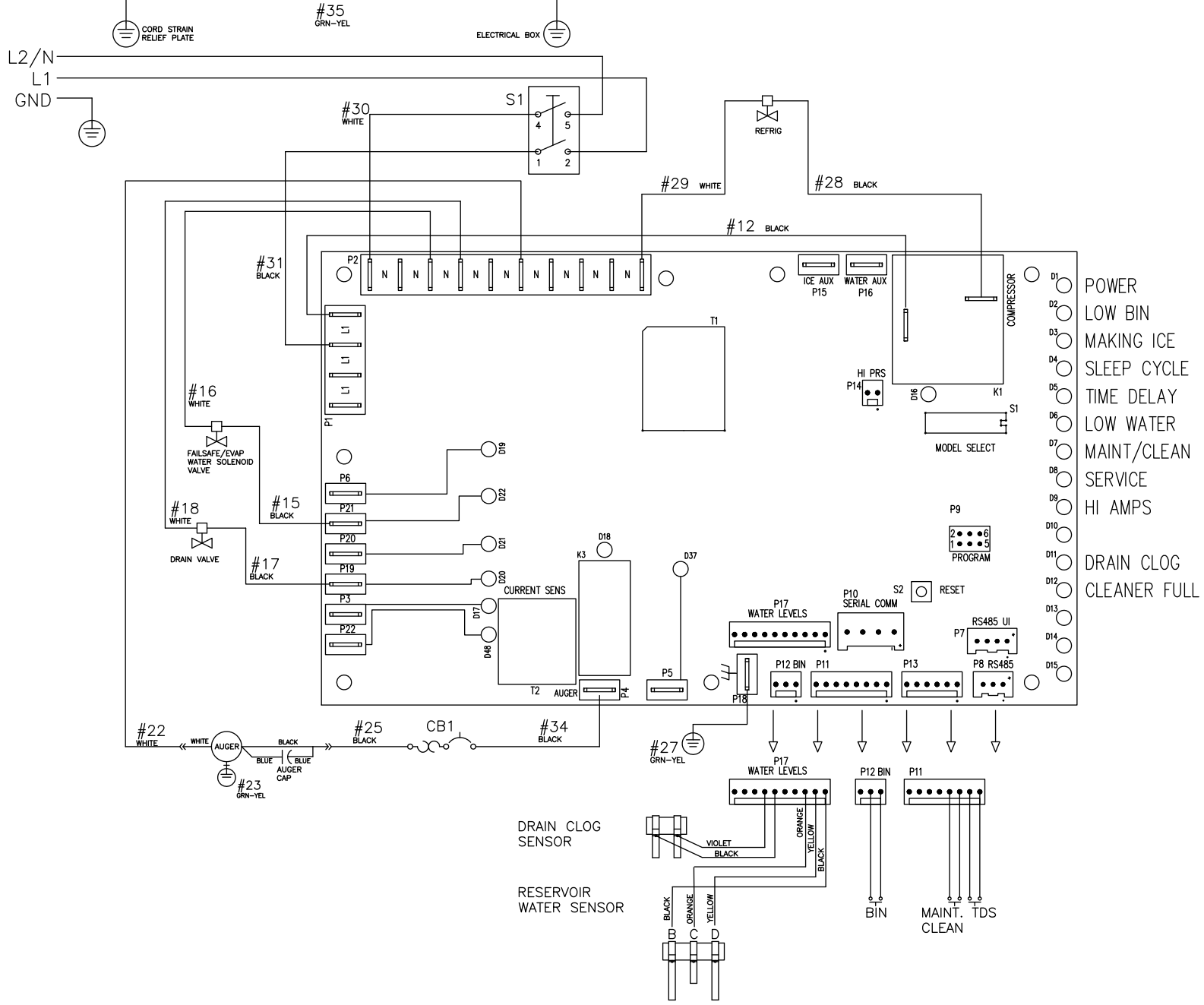
While ice is being made, the TDS of the water in the evaporator increases in TDS concentration. Without periodic draining, the TDS levels will climb to very detrimental levels, levels that will cause scale to form and cause poor machine operation. The Low TDS setting will allow the machine to operate for one hour before going through the flushing sequence; the High TDS setting will allow the machine to run for 10 minutes before going through the flushing sequence.

The flushing sequence toggles the purge and fill solenoids three times. That is, the purge solenoid will energize until the water level drops below the low probe. The fill solenoid then energizes until water reaches the high probe, and so on for 3 cycles.

Typically, High TDS might be considered levels above 200 PPM, but local experience and varying water chemistry may compel a High TDS setting for best performance in even lower TDS levels.

**Off cycle:** At the completion of off-cycle time delay, the machine checks for a cumulative 30 minutes of ice making time since the last off-cycle flush. If the cumulative ice making time exceeds 30 minutes, the machine will open the drain valve for 60 seconds to drain the evaporator in its entirety. It will then refill with water and begin making ice. If the ice making time is less than 30 minutes, the machine will start and begin making ice without draining the evaporator.

## Wiring diagram, evaporator unit

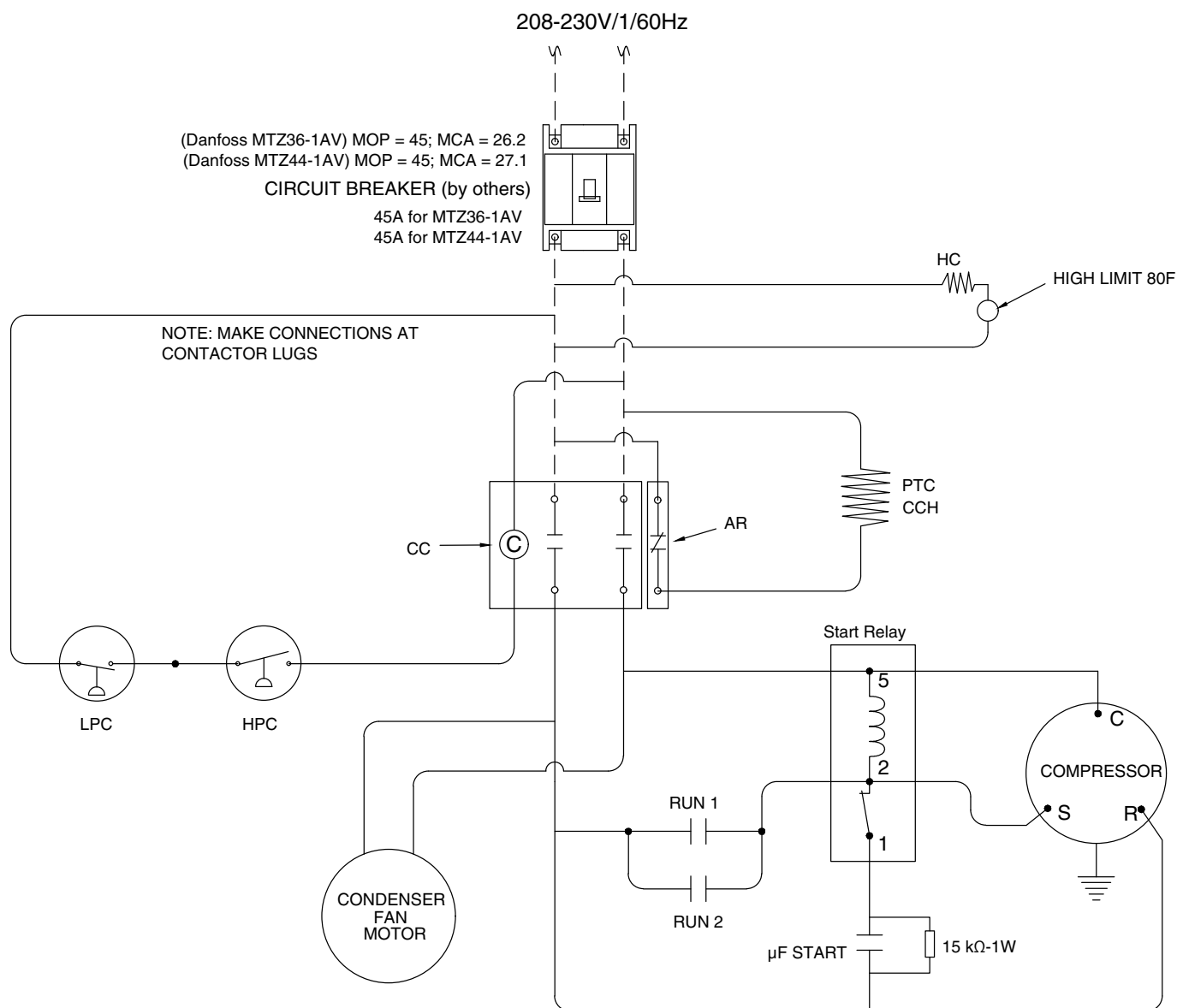


## Gearmotor data

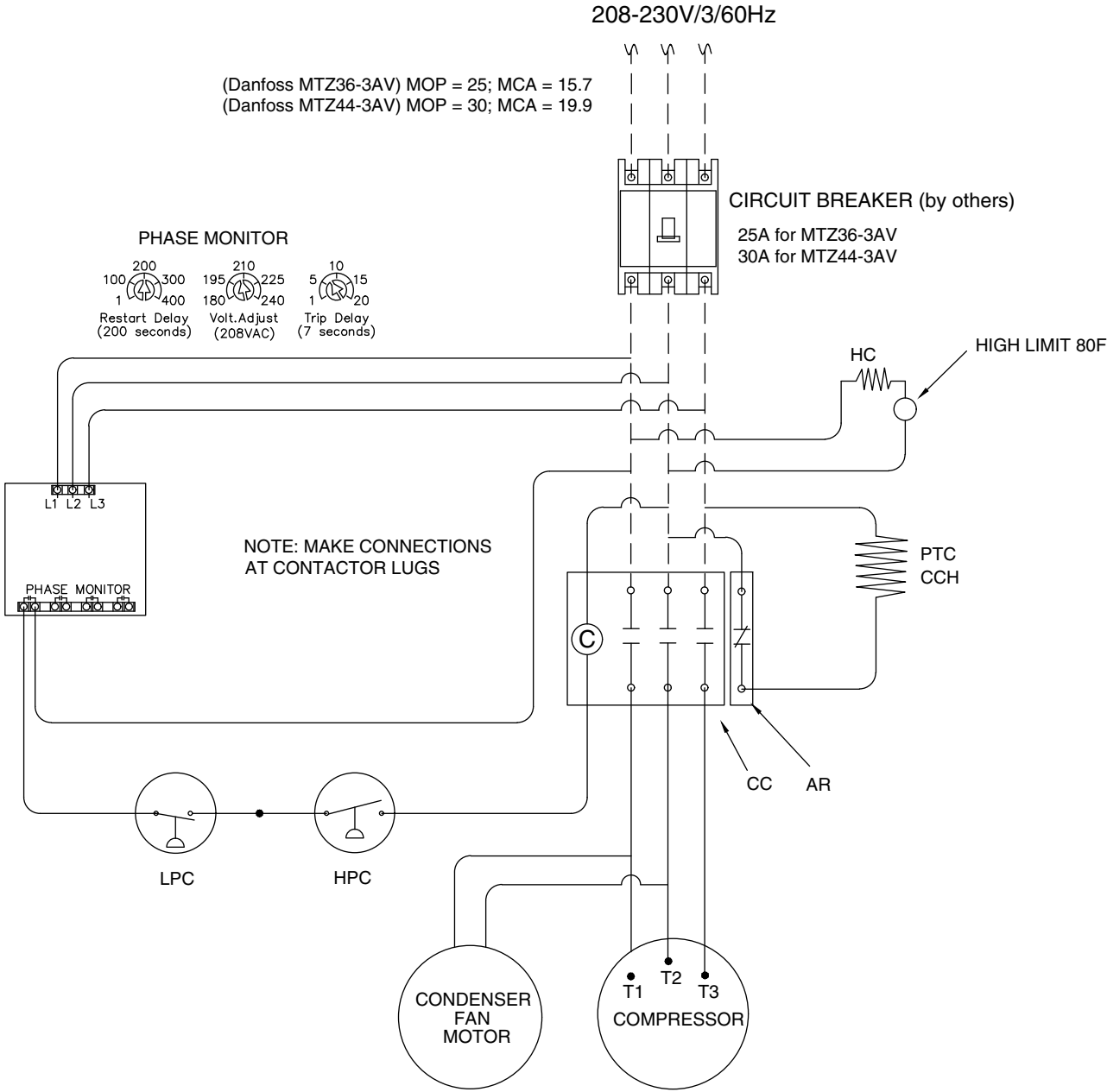
Gearmotor current 4.0A @ 115 V

Gearmotor torque-out (high amp) trip point: 7.0A

# Single-phase condensing unit wiring diagram



3-phase condensing unit wiring diagram

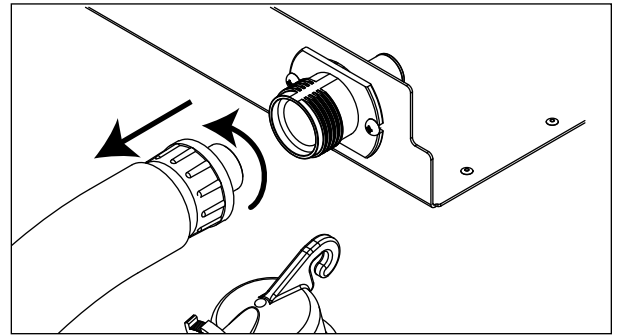


## Mechanical System

### Evaporator disassembly

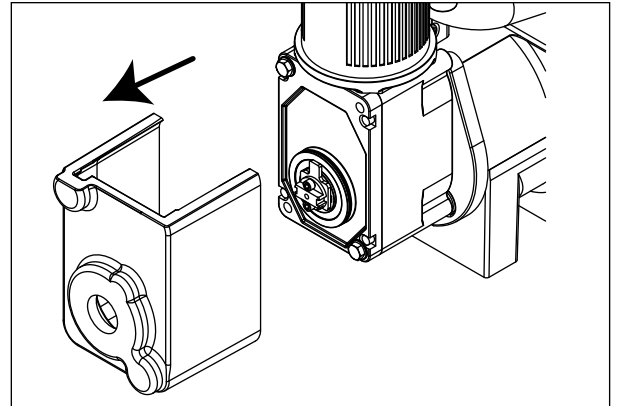
1. Press CLEAN button to purge evaporator. Turn power OFF when LO WATER lights.
2. Unscrew and disconnect transport tube from louvered docking assembly.

Fig. 10



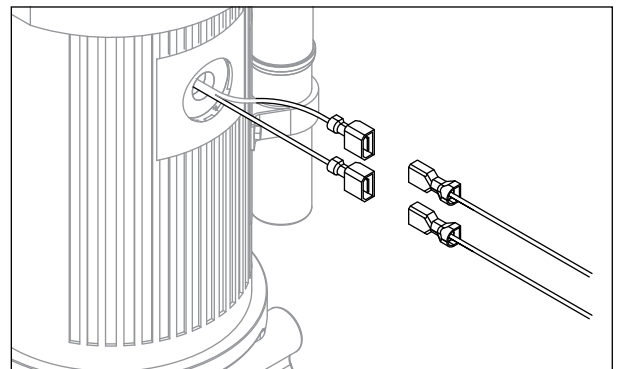
3. Remove gearbox insulation..

Fig. 11



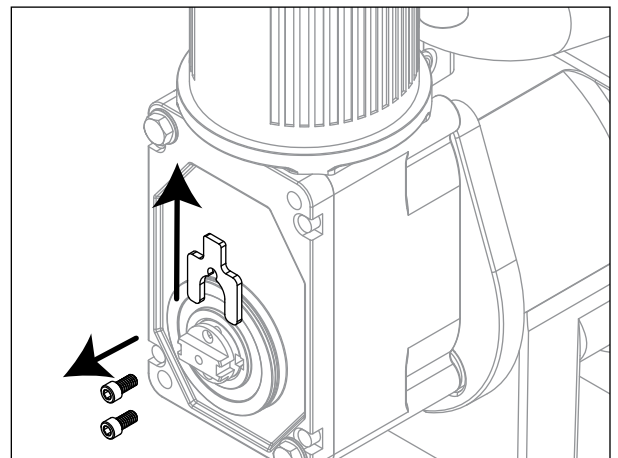
4. Disconnect gear motor wires.

Fig. 12



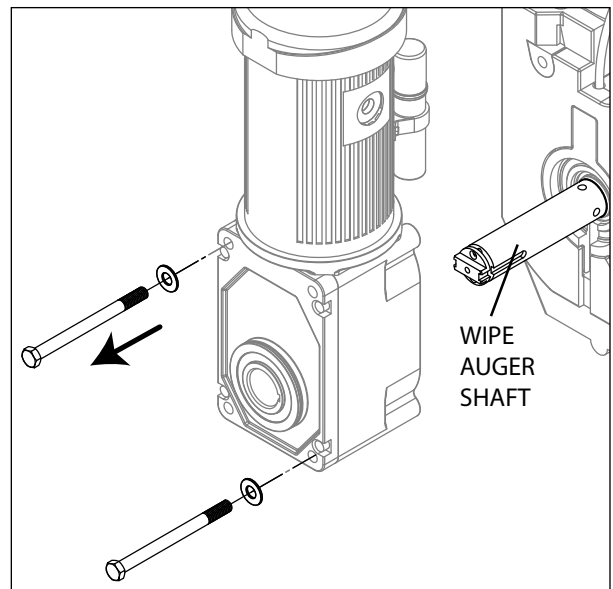
5. Remove screws (with 3/16" allen wrench) and auger retaining fork:

Fig. 13



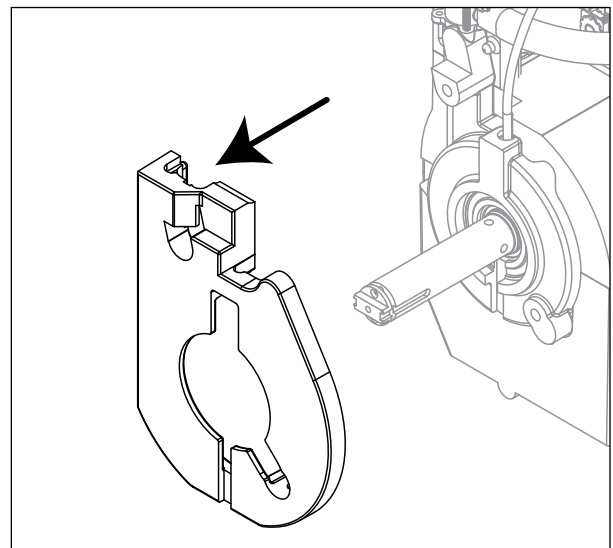
6. Remove gear motor bolts (9/16" wrench).
7. Remove gear motor and wipe auger shaft clean.

**Fig. 14**



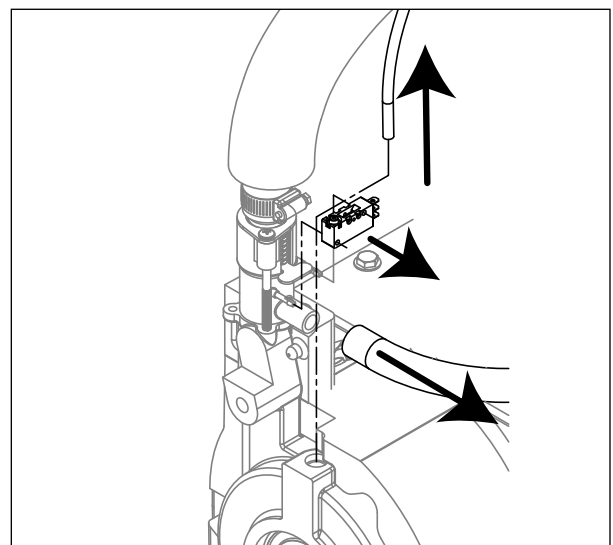
8. Remove main housing insulation and shuttle insulation:

**Fig. 15**



9. Remove front feed water tube from push-in fitting, shuttle drain tube, and shuttle switch.

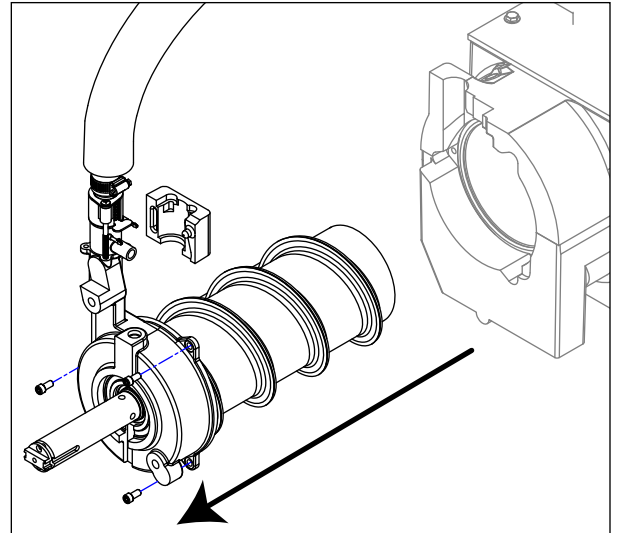
**Fig. 16**



10. Remove 3 screws (with 3/16" allen wrench) then remove auger and main housing together.

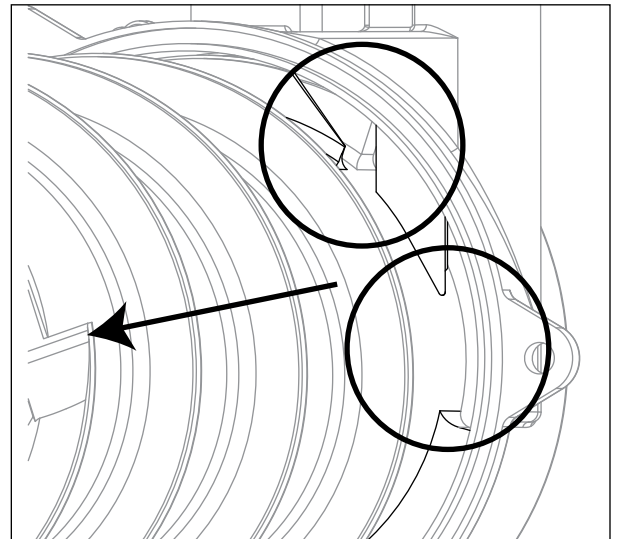
**Note: Auger is sharp - wear protective gloves.:**

Fig. 17



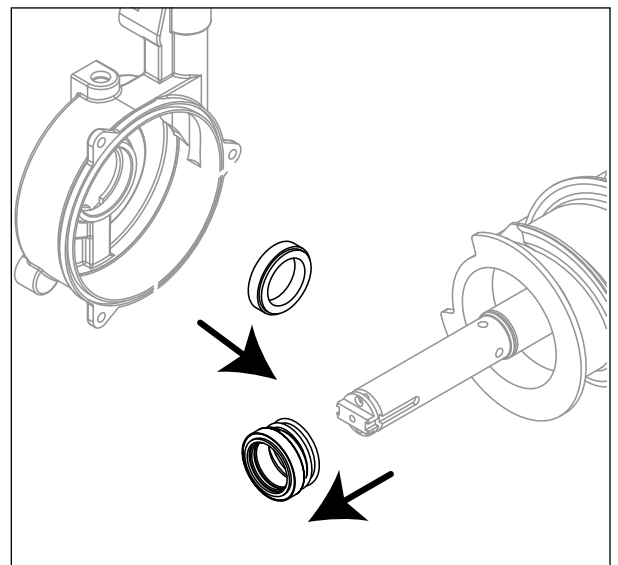
11. Rotate auger to align opening in auger flange with stream divider.
12. Pull out auger.:

Fig. 18



13. Remove and discard the ceramic mating ring and shaft seal.

Fig. 19



## Evaporator reassembly

14. Install ceramic mating ring and shaft seal.

**Caution:** Do not touch the sealed surface of either part. Oil from bare skin will cause premature seal failure.

15. Use liquid hand soap on the rubber part of the ceramic seal when installing in main housing. Use supplied cardboard disc to press into recess.
16. Apply liquid hand soap to raised area of auger shaft and interior rubber portion of shaft seal before installing seal.
17. Clean O ring groove. Lubricate O ring with petrol-gel and reinstall.

Fig. 20

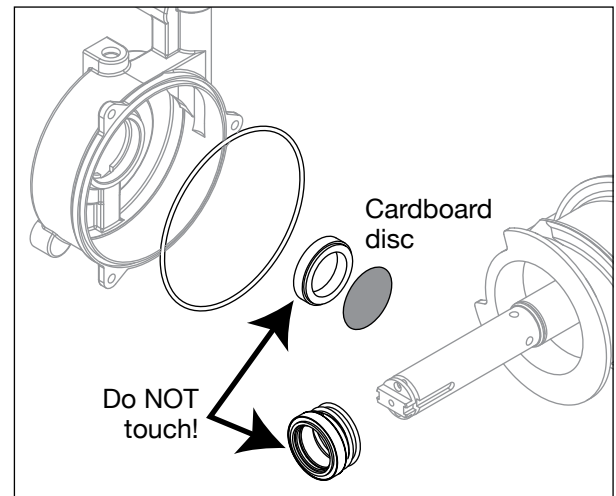


Fig. 21

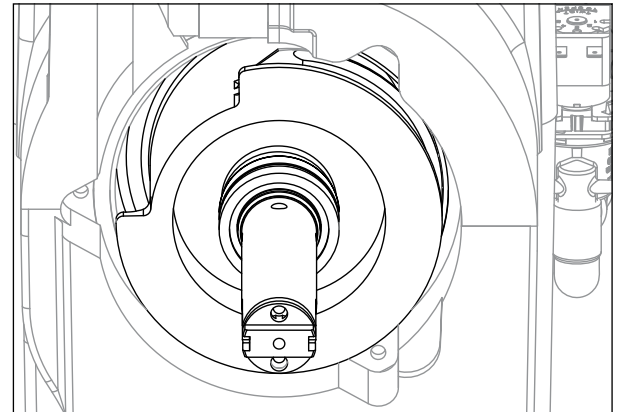
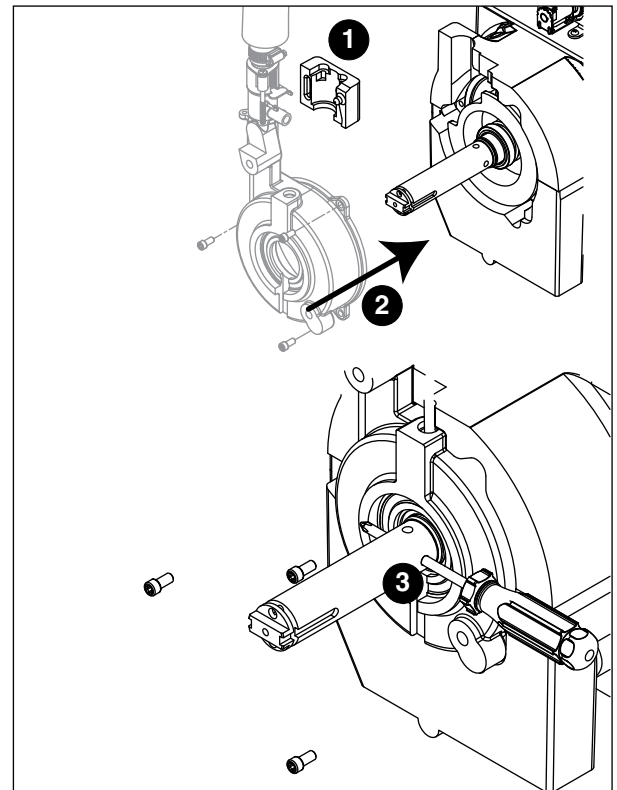


Fig. 22

20. Install rear shuttle insulation (Fig. 22.1) and slide main housing (Fig. 22.2) onto auger.
21. When installing new water seal, use screwdriver to compress the spring (Fig. 22.3), which allows for easier installation of the three screws.

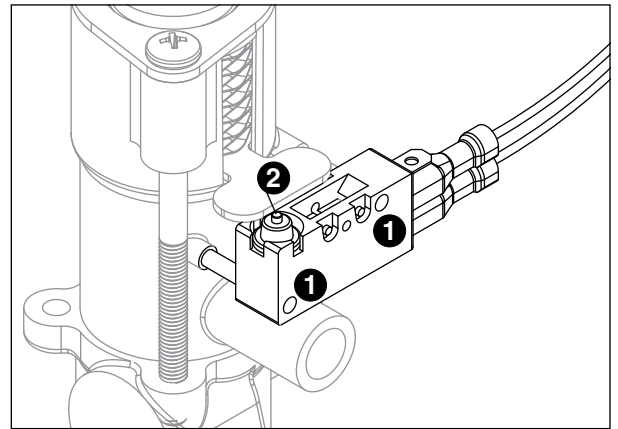




**22. Install shuttle switch.**

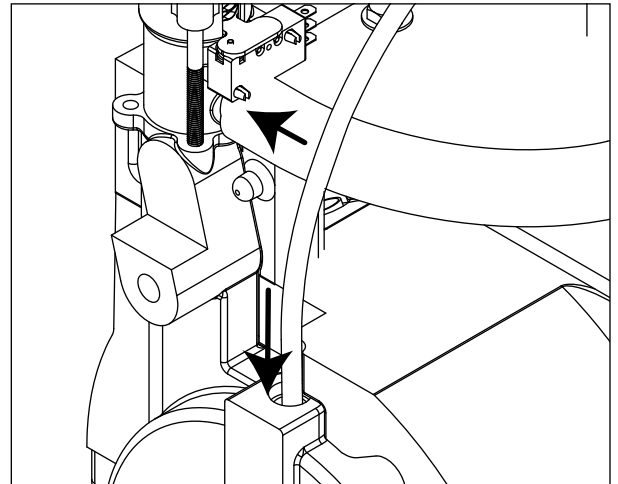
- Align holes with pins (Fig. 23.1) and depress switch button (Fig. 23.2) to clear shuttle tab.

**Fig. 23**



**23. Install shuttle drain tube and front feed water tube (Fig. 24).**

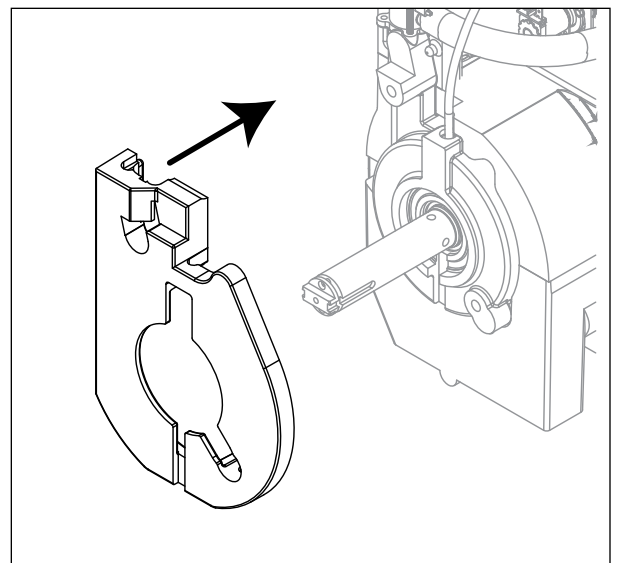
**Fig. 24**



**24. Install main housing insulation and shuttle insulation:**

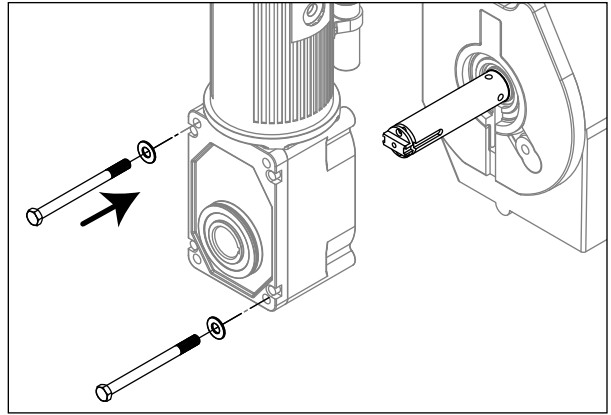
**25. Apply a coat of petro gel to auger shaft.**

**Fig. 25**



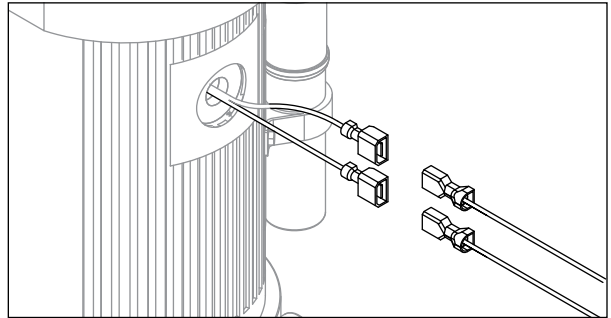
- 26.** Slide gear motor onto auger and install gear motor bolts (9/16" wrench).

**Fig. 26**



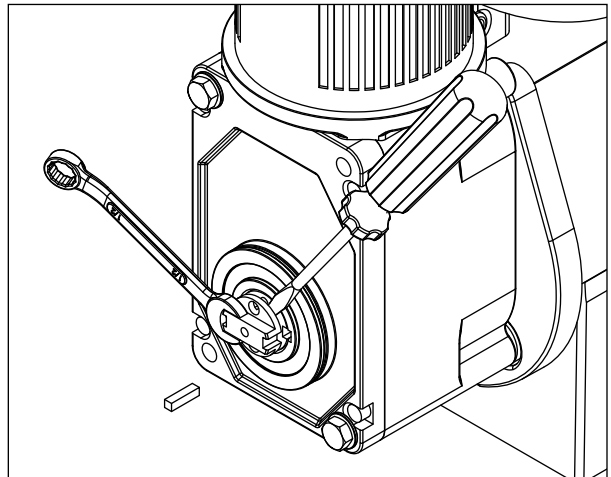
- 27.** Connect gear motor wires.

**Fig. 27**



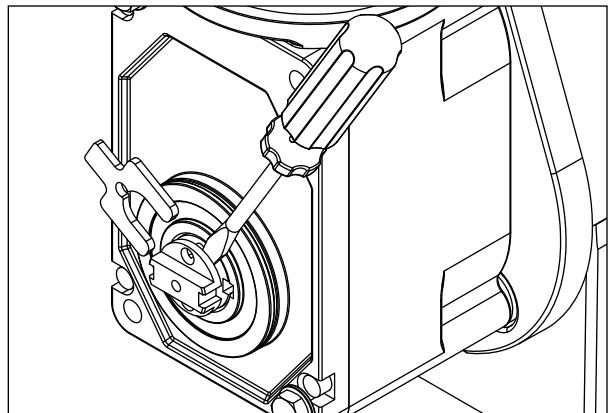
- 28.** Pry auger forward and rotate auger using 1/2" wrench to align keyways.  
**29.** Insert key fully.

**Fig. 28**



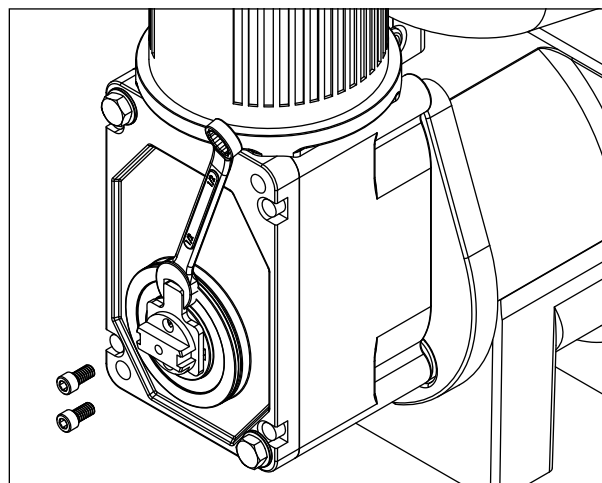
- 30.** Pry shaft forward to install retainer fork.

**Fig. 29**



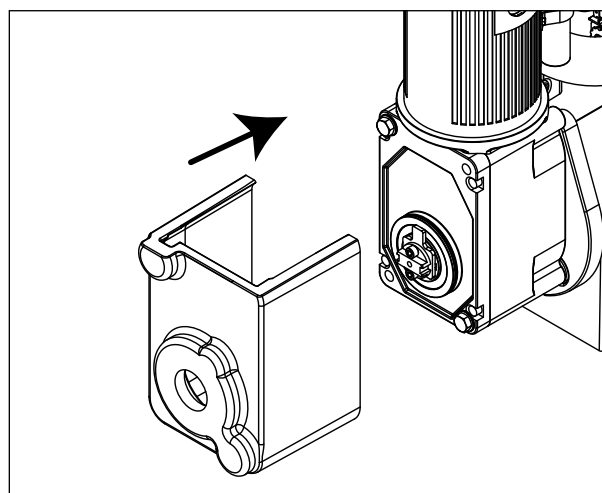
- 31.** Rotate retainer fork to align screw holes.
- 32.** Install screws to secure retainer fork.

**Fig. 30**



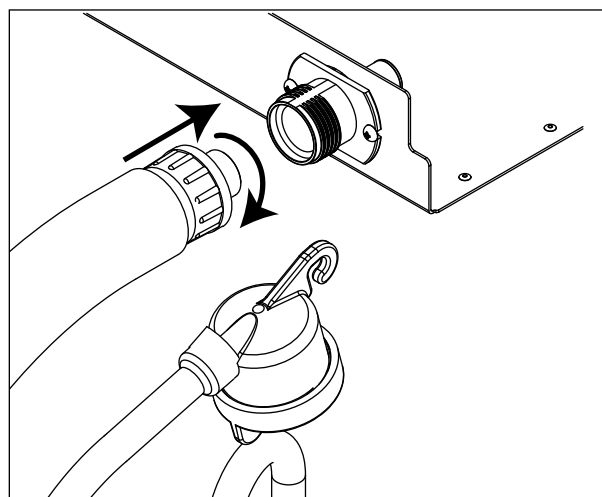
- 33.** Install gearbox insulation.

**Fig. 31**



- 34.** Connect transport tube to louvered docking assembly.

**Fig. 32**



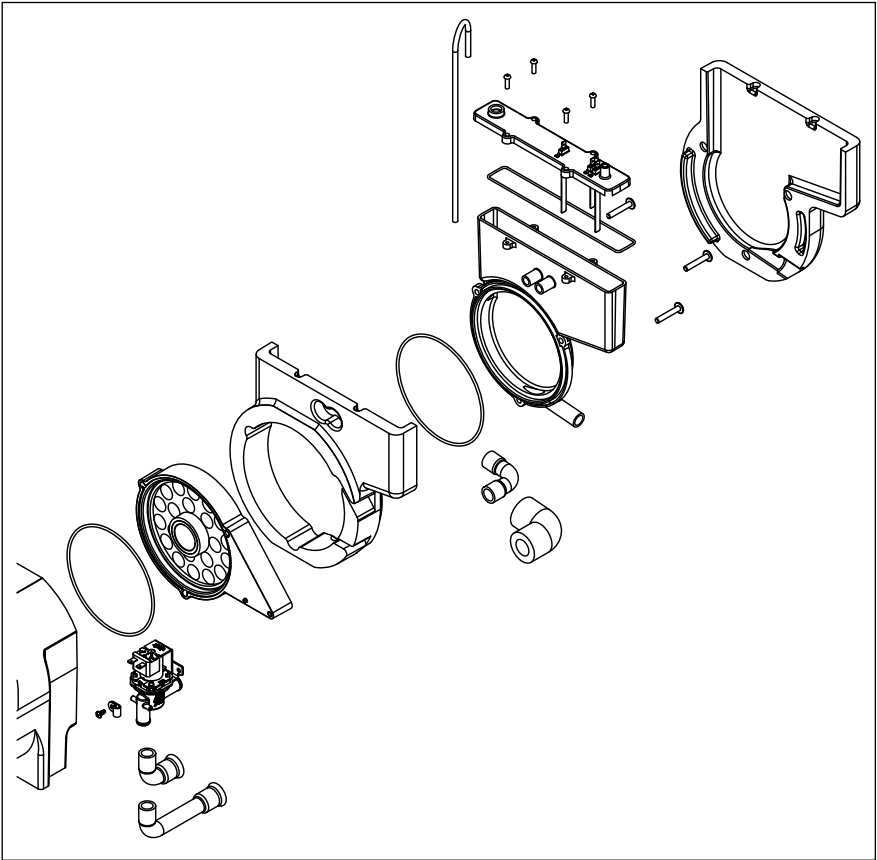
## Reservoir/rear bushing disassembly **Fig. 33**

1. Press CLEAN button to purge evaporator. Turn power OFF when LO WATER lights.

**Note:** *In many applications, removing the gearmotor, main housing, and auger will allow for the ice machine to be pulled out further for better access to rear components.*

2. Slide ice machine forward to gain access.
3. Use Fig. 32 as disassembly guide.

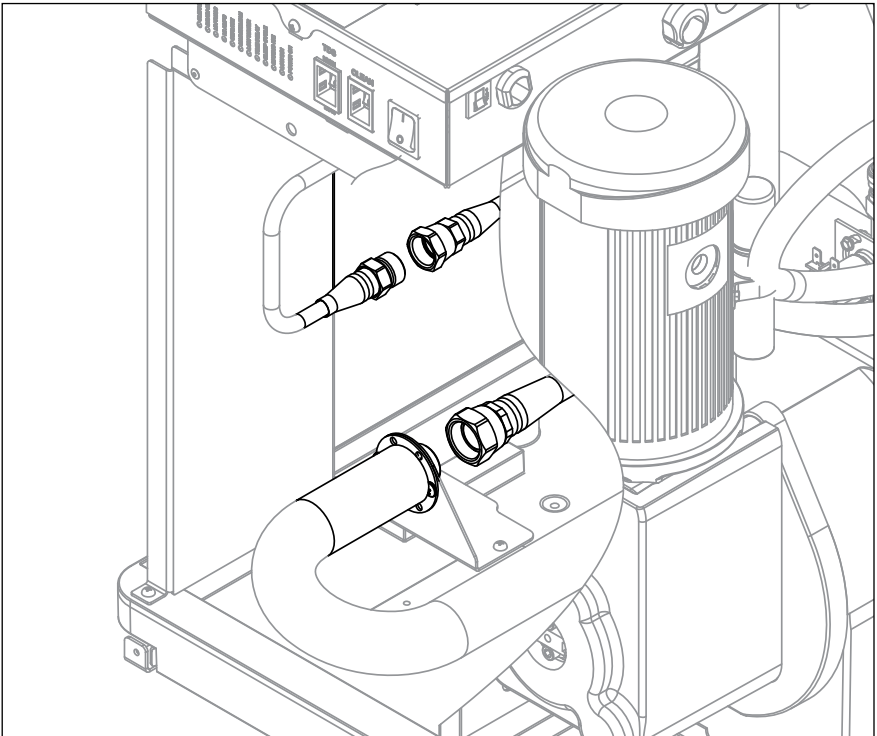
**Note:** *Use petrogel when installing/reinstalling o-rings.*



**Fig. 34**

### **Attention:**

*Access to the reservoir and rear bushing is accomplished by disconnecting the suction and liquid line quick disconnects. These disconnects are self-sealing and do not require unit to be pumped down. When disconnected, unit can be pulled forward for access.*



## Refrigeration system

### Condenser unit operation

The condensing unit is weatherproof and equipped to operate in ambient temperatures from –20 F to 120 F (–29 C to 48.9 C). The condensing unit is controlled by a low and high pressure switches, which works in concert with a refrigerant solenoid valve on the evaporator module. On start-up, the refrigerant solenoid valve opens and suction pressure rises above the “on” set point of the high pressure switch. The compressor and fan turn on and the refrigeration system operates. Upon shut down, the refrigerant solenoid closes. The compressor will pump down the ice machine evaporator and suction line until the low “off” set point of the low pressure switch is reached, at which point the compressor and fan will turn off.

Low ambient operation: Reliable operation at low outdoor ambient temperature is achieved with a pumpdown cycle, a crankcase heater and a head pressure control valve. When the outdoor ambient falls, the condensing pressure falls. This causes the discharge pressure to fall as well. When the discharge pressure falls below the dome pressure, the valve modulates open to the discharge port which allows discharge gas to bypass the condenser. Mixing the discharge gas with the liquid creates a high pressure at the condenser outlet, reducing the flow and causing liquid to back up in the condenser. Flooding the condenser reduces the area available for condensing. This reduction in effective condenser surface area results in a rise in condensing pressure. During summer conditions, the discharge pressure is high, thus closing the discharge port of the valve. Hence, there is full liquid flow from the condenser to the receiver.

A check valve is installed in the liquid line between the liquid receiver and the condenser to prevent liquid migration from the receiver to the condenser during the off cycle. A second check valve is installed in the discharge outlet of the motor compressor to prevent any oil from migrating onto the compressor head during an off cycle. A low pressure control will start the condensing unit anytime the low side pressure rises above the C/I setting of the control. The system contains a crankcase heater which is energized via the auxilliary contactor of the compressor during any off cycle. It is de-energized whenever the compressor is energized. This keeps the oil temperature in the compressor sump warmer than any other wetted surface to prevent liquid migration from settling into the compressor sump to prevent flooded compressor starts in extreme outdoor temperatures. The liquid receiver also contains a heater which is controlled by a thermostat and is de-energized above 80°F. This is to maintain sufficient refrigerant pressure at extreme outdoor temperatures to activate the pressure switch.

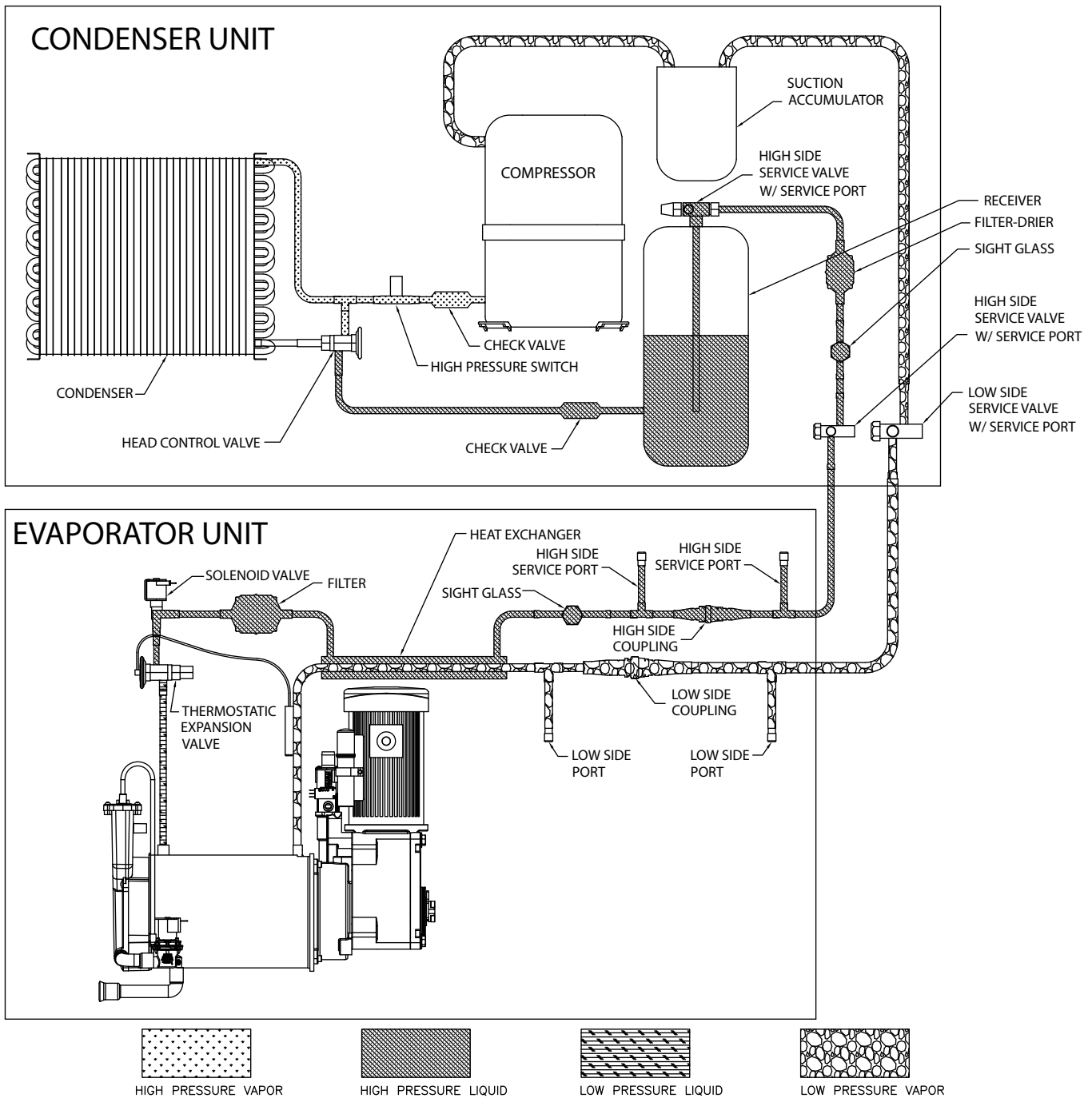
**1810 - Operating Pressure (Discharge PSIG/Suction PSIG)**

| Evap Potable Water Temperature F/C |     |        |        |        |        |        |
|------------------------------------|-----|--------|--------|--------|--------|--------|
| Air Temperature F/C                | F   | 50     | 60     | 70     | 80     | 90     |
|                                    | C   | 10     | 16     | 21     | 27     | 32     |
|                                    | 60  | 185/24 | 185/24 | 185/23 | 185/22 | 185/22 |
|                                    | 16  |        |        |        |        |        |
|                                    | 70  | 190/23 | 190/23 | 190/23 | 190/23 | 191/23 |
|                                    | 21  |        |        |        |        |        |
|                                    | 80  | 217/24 | 218/25 | 217/25 | 218/25 | 218/25 |
|                                    | 27  |        |        |        |        |        |
|                                    | 90  | 251/26 | 250/26 | 250/26 | 250/26 | 250/26 |
|                                    | 32  |        |        |        |        |        |
|                                    | 100 | 287/28 | 286/28 | 287/28 | 287/28 | 286/28 |
|                                    | 38  |        |        |        |        |        |

**2110 - Operating Pressure (Discharge PSIG/Suction PSIG)**

| Evap Potable Water Temperature F/C |     |        |        |        |        |        |
|------------------------------------|-----|--------|--------|--------|--------|--------|
| Air Temperature F/C                | F   | 50     | 60     | 70     | 80     | 90     |
|                                    | C   | 10     | 16     | 21     | 27     | 32     |
|                                    | 60  | 185/26 | 186/26 | 186/26 | 186/26 | 187/26 |
|                                    | 16  |        |        |        |        |        |
|                                    | 70  | 195/27 | 195/28 | 197/27 | 194/27 | 193/27 |
|                                    | 21  |        |        |        |        |        |
|                                    | 80  | 231/29 | 225/28 | 224/28 | 230/28 | 231/28 |
|                                    | 27  |        |        |        |        |        |
|                                    | 90  | 261/30 | 261/30 | 260/30 | 262/31 | 262/32 |
|                                    | 32  |        |        |        |        |        |
|                                    | 100 | 294/32 | 296/32 | 294/32 | 296/32 | 294/32 |
|                                    | 38  |        |        |        |        |        |

## Refrigeration system diagram



### Refrigeration charge

All service on refrigeration systems must be performed in accordance with all federal, state and local laws. It is the responsibility of the technician to ensure that these requirements are met. Recharging ice machine to other than factory specifications will void the warranty.

#### R404A ice machine charge specifications for 1810/2110 models with line runs of 0 to 75 ft. (0 m to 22.8 m)

|                                       | 1810 1-phase       | 1810 3-phase       | 2110 1-phase       | 2110 3-phase       |
|---------------------------------------|--------------------|--------------------|--------------------|--------------------|
| <b>Total charge</b>                   | 14.5 lbs (6.57 kg) | 14.5 lbs (6.57 kg) | 14.5 lbs (6.57 kg) | 14.5 lbs (6.57 kg) |
| <b>Condensing unit holding charge</b> | 0.5 lbs (0.23 kg)  | 14.5 lbs (6.57 kg) | 14.5 lbs (6.57 kg) | 0.5 lbs (0.23 kg)  |
| <b>Charge at installation</b>         | 14 lbs (6.35 kg)   | Pre-charged        | Pre-charged        | 14 lbs (6.35 kg)   |

Note: Condensing unit shipped with 0.5 lb of R404A charge.

### 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 LLC 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 all valves. 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.

| Ambients                       | Minimum   | Maximum      |
|--------------------------------|-----------|--------------|
| Air temperature <sup>1</sup>   | 50 F/10 C | 100 F/37.8 C |
| Water temperature <sup>2</sup> | 45 F/7 C  | 90 F/32.2 C  |

<sup>1</sup>Ambient air temperature is measured at the air-cooled condenser coil inlet.

<sup>2</sup>Ambient water temperature is measured in the ice machine water reservoir.

### Ice capacity test

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

1. Replace all panels on ice machine.
2. Run ice machine for at least 15 minutes.
3. Weigh and record weight of container used to catch ice.
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 8oz = 6.5 lbs).
8. Calculate production using following formula:

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

9. Calculated amount per 24 hours should be checked against rated capacity for same ambient and water temperatures in Ice Production Tables.

# Troubleshooting

Please see “Service” section for a description of each function.

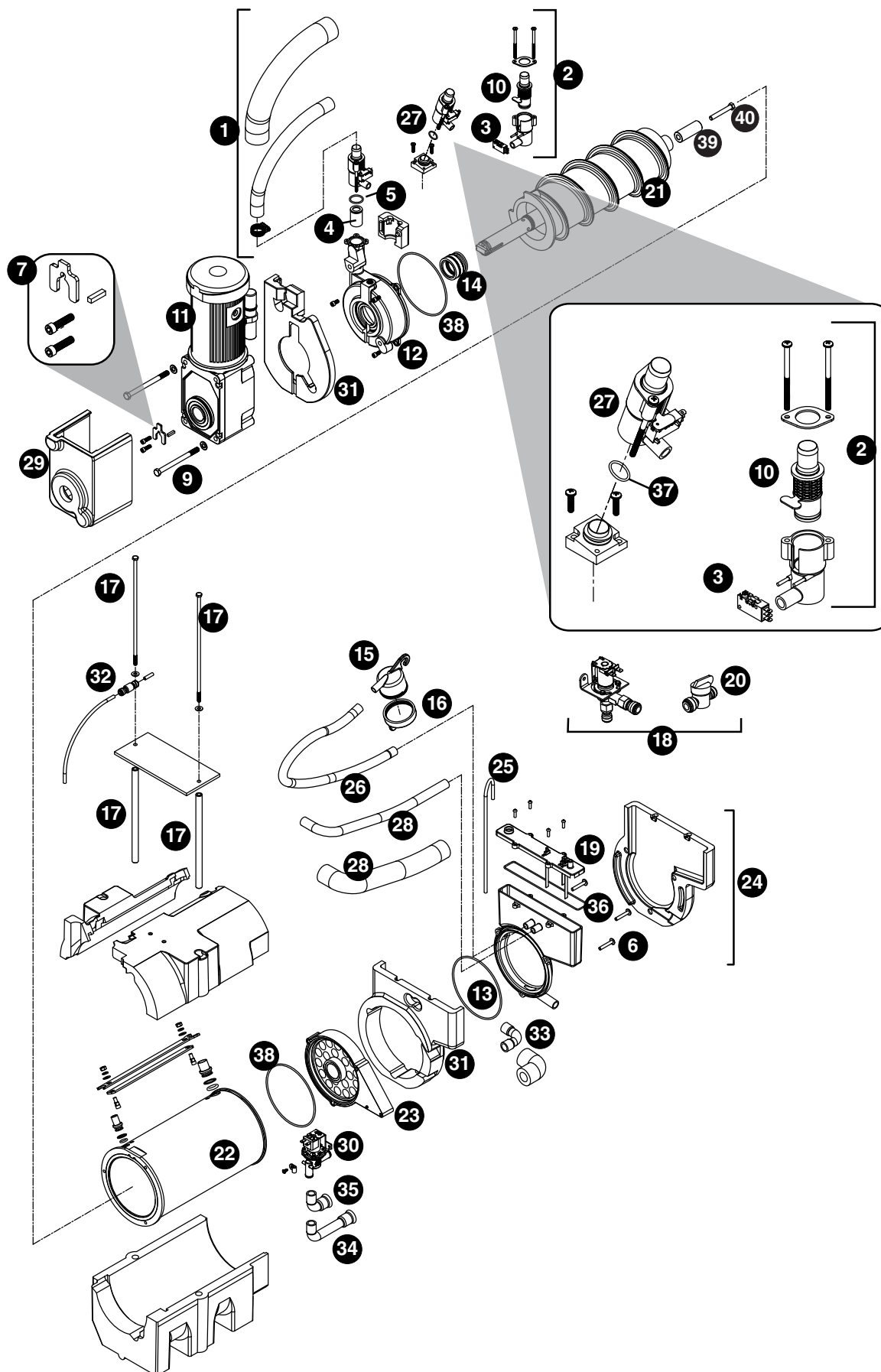
| Ice machine disposition                                         |                                                                                                                                                                                 | Possible causes                                                                                                                                                                                                              | Corrective action                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Legend:</b> ● ON      ○ OFF      ① ON or OFF      ② FLASHING |                                                                                                                                                                                 |                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                               |
| 1. Ice machine is in running condition but not making ice.      | ○ CLEANER FULL<br>● DRAIN CLOG<br>○ HI PRESS<br>○ HI AMPS<br>○ SERVICE<br>○ MAINT/CLEAN<br>○ LOW WATER<br>● TIME DELAY<br>○ NOT USED<br>● MAKING ICE<br>● LOW BIN<br>② POWER ON | 1. No output from PC board.<br>2. Defective start relay.<br>3. Defective start capacitor.<br>4. Defective run capacitor.<br>5. Defective main contactor.<br>6. Defective compressor.                                         | 1. Replace PC board.<br>2. Replace start relay.<br>3. Replace start capacitor.<br>4. Replace run capacitor.<br>5. Replace main contactor.<br>6. Replace compressor.                                                                                                                                                                                                                           |
| 2. Machine in TIME DELAY without full bin.                      | ○ CLEANER FULL<br>○ DRAIN CLOG<br>○ HI PRESS<br>○ HI AMPS<br>○ SERVICE<br>○ MAINT/CLEAN<br>○ LOW WATER<br>● TIME DELAY<br>○ NOT USED<br>○ MAKING ICE<br>○ LOW BIN<br>② POWER ON | 1. Ice jamming due to improperly installed transport tube causing a false shuttle.<br>2. Shuttle stuck in up position.<br>3. Damaged or improperly installed thermostat (open).<br>4. Transport tube backed-out of coupling. | 1. Correct transport tube routing.<br>2. Repair or replace shuttle mechanism.<br>3. Replace or reposition thermostat.<br>4. Correct coupling installation.                                                                                                                                                                                                                                    |
| 3. Ice machine is not making ice. HI AMPS.                      | ○ CLEANER FULL<br>○ DRAIN CLOG<br>○ HI PRESS<br>● HI AMPS<br>○ SERVICE<br>○ MAINT/CLEAN<br>○ LOW WATER<br>● TIME DELAY<br>○ NOT USED<br>○ MAKING ICE<br>○ LOW BIN<br>② POWER ON | 1. Poor water quality causing ice to jam auger.<br>2. Damaged shuttle mechanism.<br>3. Intermittent drive output from PC board. Evaporator will freeze causing a HI AMPS error.<br>4. Gearmotor is unplugged.                | 1. <b>Clean ice machine according to the <i>Cleaning/sanitizing and preventive maintenance</i> section. It may be necessary to do a more thorough cleaning, see the <i>Evaporator Scale Removal</i> section on page 48. Increase flushing frequency. Position TDS switch to High TDS setting.</b><br>2. Replace or repair shuttle mechanism.<br>3. Replace PC board.<br>4. Plug in gearmotor. |
| 4. Ice machine is not making ice. SERVICE.                      | ○ CLEANER FULL<br>○ DRAIN CLOG<br>○ HI PRESS<br>○ HI AMPS<br>● SERVICE<br>○ MAINT/CLEAN<br>○ LOW WATER<br>● TIME DELAY<br>○ NOT USED<br>○ MAKING ICE<br>○ LOW BIN<br>② POWER ON | 1. Internal water leak touching chassis sensor.                                                                                                                                                                              | 1. Identify and repair leak. Clean/dry chassis and sensors and restart machine.                                                                                                                                                                                                                                                                                                               |
| 5. Drain clog.                                                  | ○ CLEANER FULL<br>● DRAIN CLOG<br>○ HI PRESS<br>○ HI AMPS<br>○ SERVICE<br>○ MAINT/CLEAN<br>○ LOW WATER<br>● TIME DELAY<br>○ NOT USED<br>● MAKING ICE<br>○ LOW BIN<br>② POWER ON | 1. Improper flow in drain system.                                                                                                                                                                                            | 1. Correct/clean drain system.                                                                                                                                                                                                                                                                                                                                                                |





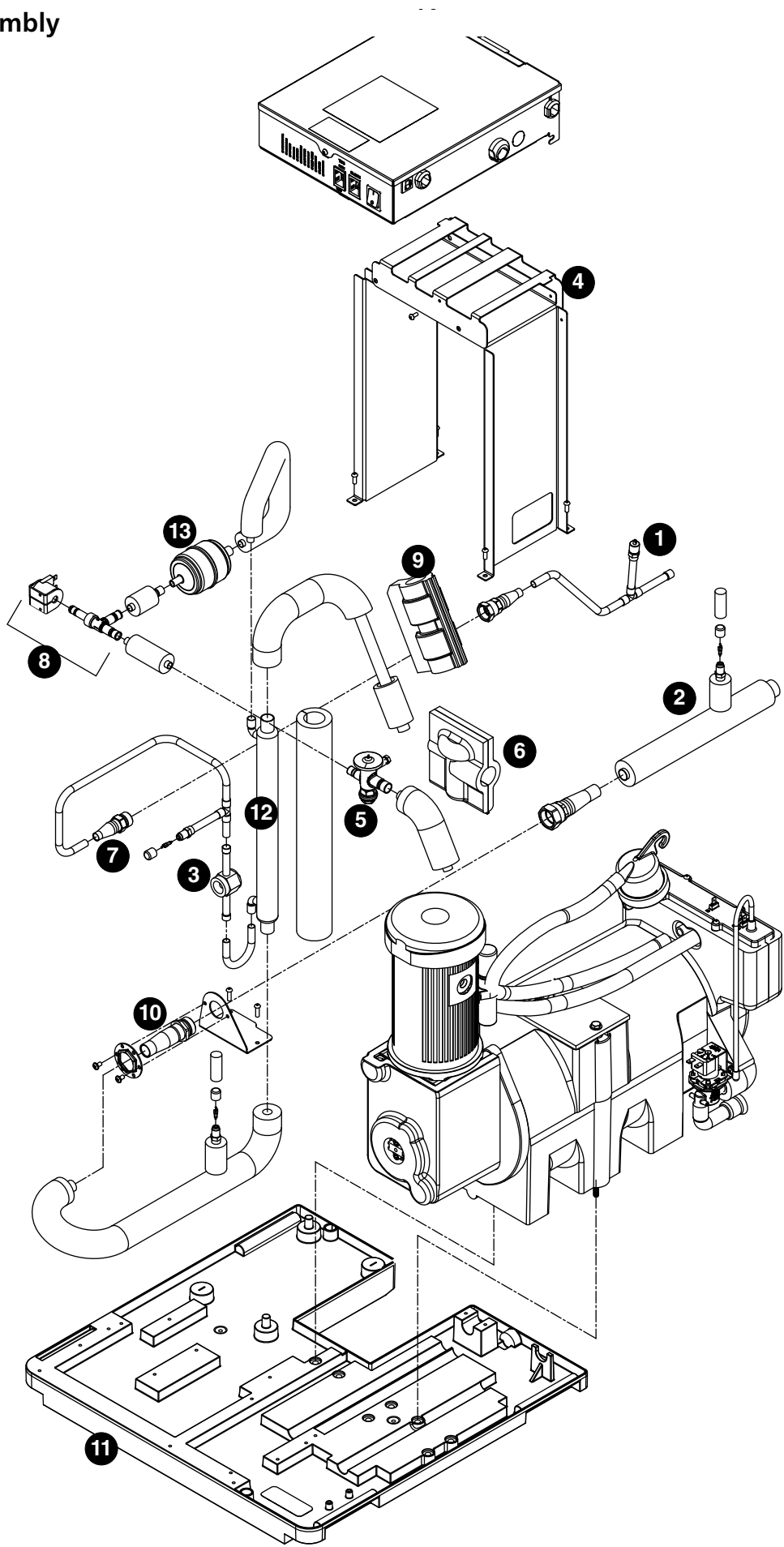
# Replacement parts

## Evaporator assembly



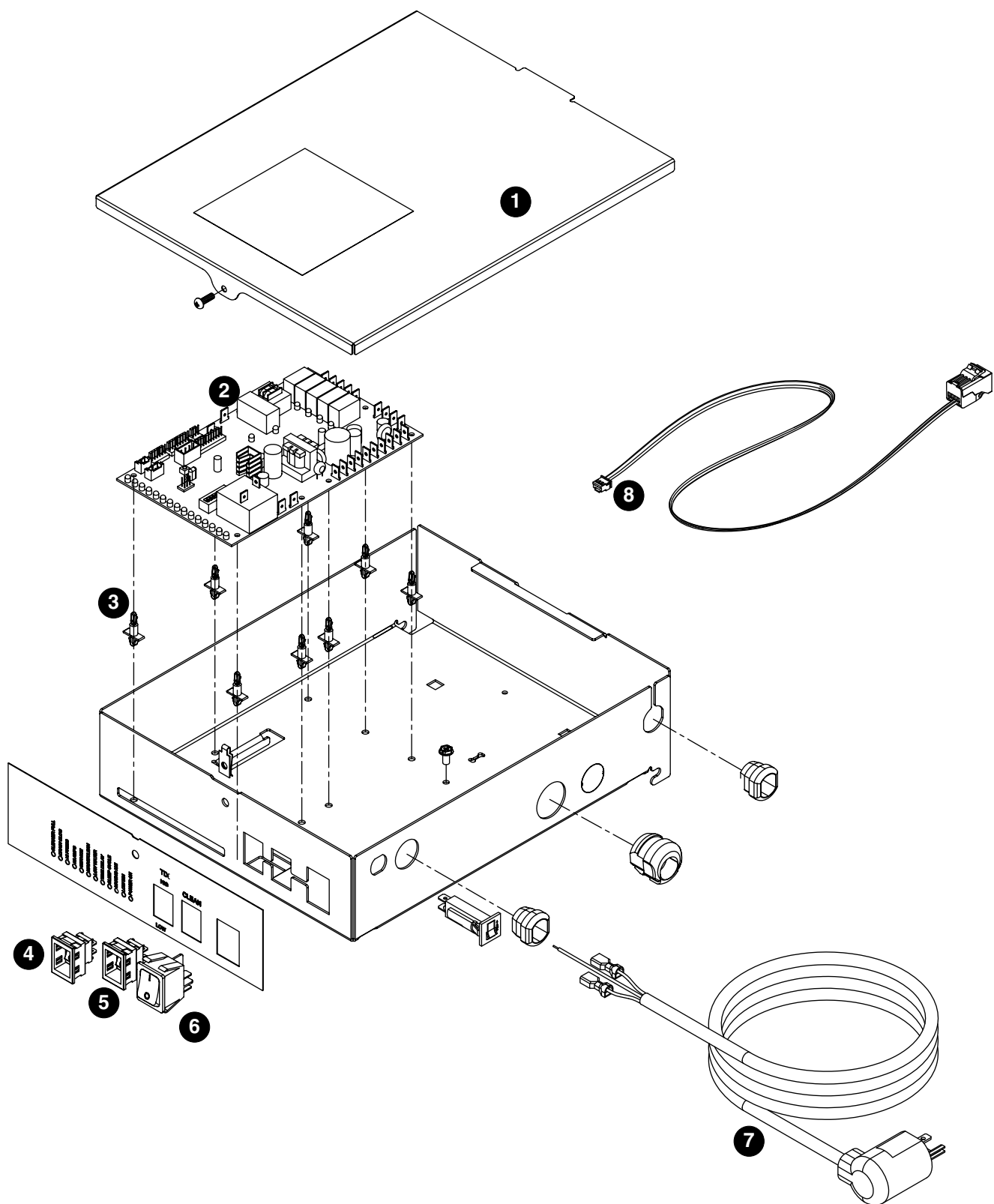
| Reference # | Description                                                                                                            | Part #               |
|-------------|------------------------------------------------------------------------------------------------------------------------|----------------------|
| 1           | Tube, ice transport, insulated                                                                                         | 01118181             |
| 2           | Shuttle assembly                                                                                                       | 01118132             |
| 2           | Shuttle assembly, IMDV                                                                                                 | 01118140             |
| 3           | Switch, shuttle                                                                                                        | 01006261             |
| 4           | Compression nozzle                                                                                                     | 01278654             |
| 5           | O-ring, shuttle                                                                                                        | 01164920             |
| 6           | Screw, reservoir (3 required)                                                                                          | 206395               |
| 7           | Auger hardware (includes screws, key, retainer)                                                                        | 01118611             |
| 8           | Key                                                                                                                    | 01164938             |
| 9           | Bolt, gearmotor mounting (2) (remote condensing units), includes washers                                               | 01118629             |
| 10          | Cartridge assembly, shuttle spring                                                                                     | 01118033             |
| 10          | Cartridge, shuttle spring, IMDV                                                                                        | 01118041             |
| 11          | Gearmotor, 120 V (includes capacitor)                                                                                  | 01164946             |
| 12          | Main housing                                                                                                           | 01164961             |
| 13          | O ring, square profile, reservoir to bushing housing                                                                   | 01164979             |
| 14          | Seal, auger shaft                                                                                                      | 01302249             |
| 15          | Cup, sanitizer                                                                                                         | 01164995             |
| 16          | Cap, sanitizer                                                                                                         | 01118637             |
| Not shown   | Tubing, water, 3/8" OD                                                                                                 | 502719               |
| Not shown   | Tubing, water, 1/4" OD                                                                                                 | 502079               |
| 17          | Retainer kit, evaporator                                                                                               | 01118652             |
| 18          | Solenoid, water feed, 120 V                                                                                            | 01441526             |
| 19          | Reservoir lid and sensors (includes screws and o-ring)                                                                 | 01165026             |
| 20          | Valve, shut-off, water                                                                                                 | 502921               |
| 21          | Auger, 1810 (includes seal, key, journal, bolt and auger hardware)                                                     | 01165034 (1810 only) |
| 21          | Auger, 2110 (includes seal, key, journal, bolt and auger hardware)                                                     | 01165075 (2110 only) |
| 22          | Evaporator, 1810                                                                                                       | 01165083 (1810 only) |
| 22          | Evaporator, 2110                                                                                                       | 01165174 (2110 only) |
| 23          | Rear bushing housing and bushing (includes (1) o-ring)                                                                 | 01165182             |
| 24          | Reservoir assembly, water (includes lid)                                                                               | 01165232             |
| 25          | Tube, vent (20" required)                                                                                              | 502079               |
| 26          | Tube, sanitizer                                                                                                        | 01118660             |
| 27          | Kit, MicroChewblet                                                                                                     | 01161843             |
| 28          | Tube, shuttle drain, insulated                                                                                         | 01165216             |
| 29          | Insulation, gearbox, 120 V                                                                                             | 01165240             |
| 30          | Solenoid, purge, 120 V                                                                                                 | 01337286             |
| 31          | Insulation kit, evaporator/reservoir, 1810                                                                             | 01165737 (1810 only) |
| 31          | Insulation kit, evaporator/reservoir, 2110                                                                             | 01165505 (2110 only) |
| 32          | Check valve                                                                                                            | 01122381             |
| 33          | Tube, drain, reservoir, insulated                                                                                      | 01118124             |
| 34          | Tube, drain, 1810                                                                                                      | 01165513 (1810 only) |
| 35          | Tube, drain, 2110                                                                                                      | 01165521 (2110 only) |
| 36          | O-ring, reservoir lid                                                                                                  | 01165539             |
| Not shown   | Kit, scale (includes reservoir, purge solenoid, drain tubes and fitting)                                               | 01165547             |
| 37          | O-ring, Micro Chewblet                                                                                                 | 01161850             |
| Not shown   | Drain kit (includes 2 ft. x 1" OD silicone tubing, 3/4" x 1" slip, 3/4" barb 3/4" FPT (2), 3/4" barb x 3/4" FPT elbow) | 01210350             |
| 38          | O ring, round profile                                                                                                  | 01435007             |
| 39          | Journal, threaded                                                                                                      | 01477538             |
| 40          | Bolt, journal                                                                                                          | 01478759             |

Low-side assembly



| Reference # | Description                                               | Part #                   |
|-------------|-----------------------------------------------------------|--------------------------|
| 1           | Tubing, liquid line, quick connect                        | <a href="#">01165554</a> |
| 2           | Tubing, suction line (includes insulation), quick connect | <a href="#">01165562</a> |
| 3           | Sight glass                                               | <a href="#">01165570</a> |
| 4           | Electrical box support                                    | <a href="#">01557503</a> |
| 5           | Valve, expansion, thermal (includes TXV insulation)       | <a href="#">01165596</a> |
| 6           | Insulation, TXV (body)                                    | <a href="#">01165604</a> |
| 7           | Coupling, quick connect, male, liquid line                | <a href="#">01165620</a> |
| 8           | Kit, liquid line solenoid (Includes filter drier)         | <a href="#">01191493</a> |
| 9           | Insulation, bulb, TXV                                     | <a href="#">502830</a>   |
| 10          | Coupling, quick connect, male, suction line               | <a href="#">01165638</a> |
| 11          | Base, split system                                        | <a href="#">01333772</a> |
| 12          | Heat Exchanger                                            | <a href="#">00185934</a> |
| 13          | Filter drier                                              | <a href="#">01153683</a> |

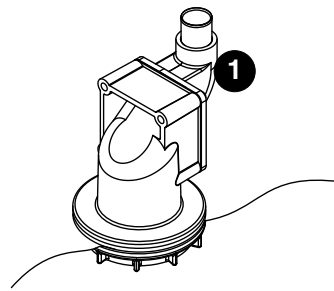
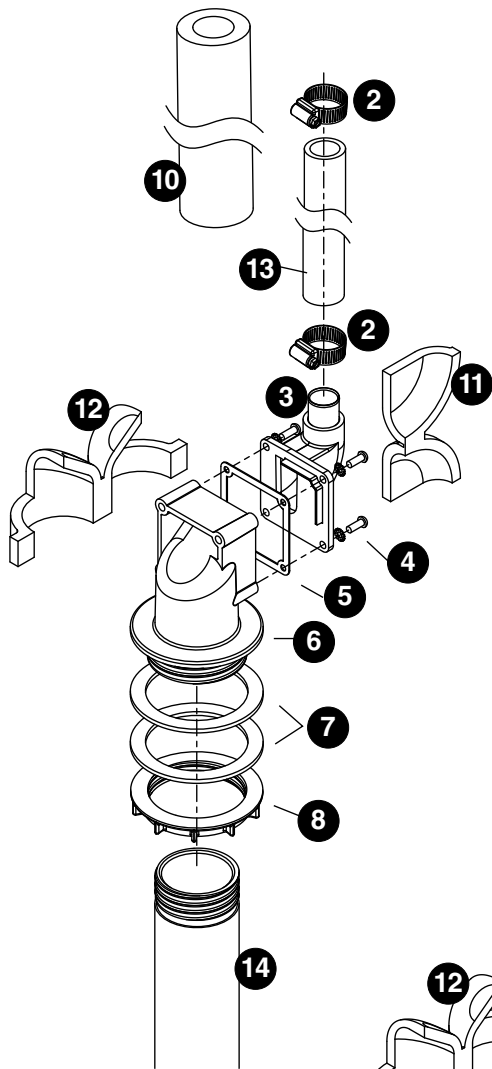
## Electrical box



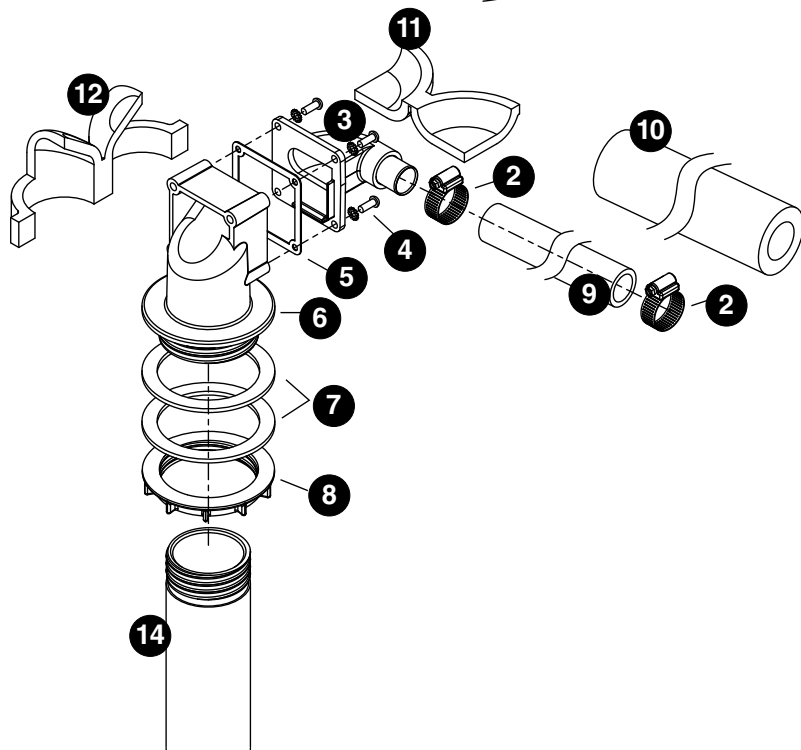
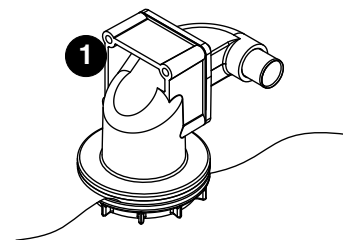
| Reference # | Description                                              | Part #                   |
|-------------|----------------------------------------------------------|--------------------------|
| 1           | Cover, electrical box, air/water-cooled                  | <a href="#">01165729</a> |
| 2           | Board, control, 120 V (includes stand-offs)              | <a href="#">01165679</a> |
| 3           | Stand-offs (set of 8)                                    | <a href="#">00130906</a> |
| 4           | Switch, TDS                                              | <a href="#">01165695</a> |
| 5           | Switch, evaporator clean                                 | <a href="#">01165703</a> |
| 6           | Switch, ice machine power                                | <a href="#">01165711</a> |
| 7           | Cord, power, 120 V                                       | <a href="#">01111491</a> |
| 8           | Cable, IMDV                                              | <a href="#">01116177</a> |
| Not shown   | <a href="#">Sleep Cycle Kit (top mount applications)</a> | <a href="#">01528462</a> |

## Integration kit – top-mount and RIDE remote ice delivery

### Top mount configuration



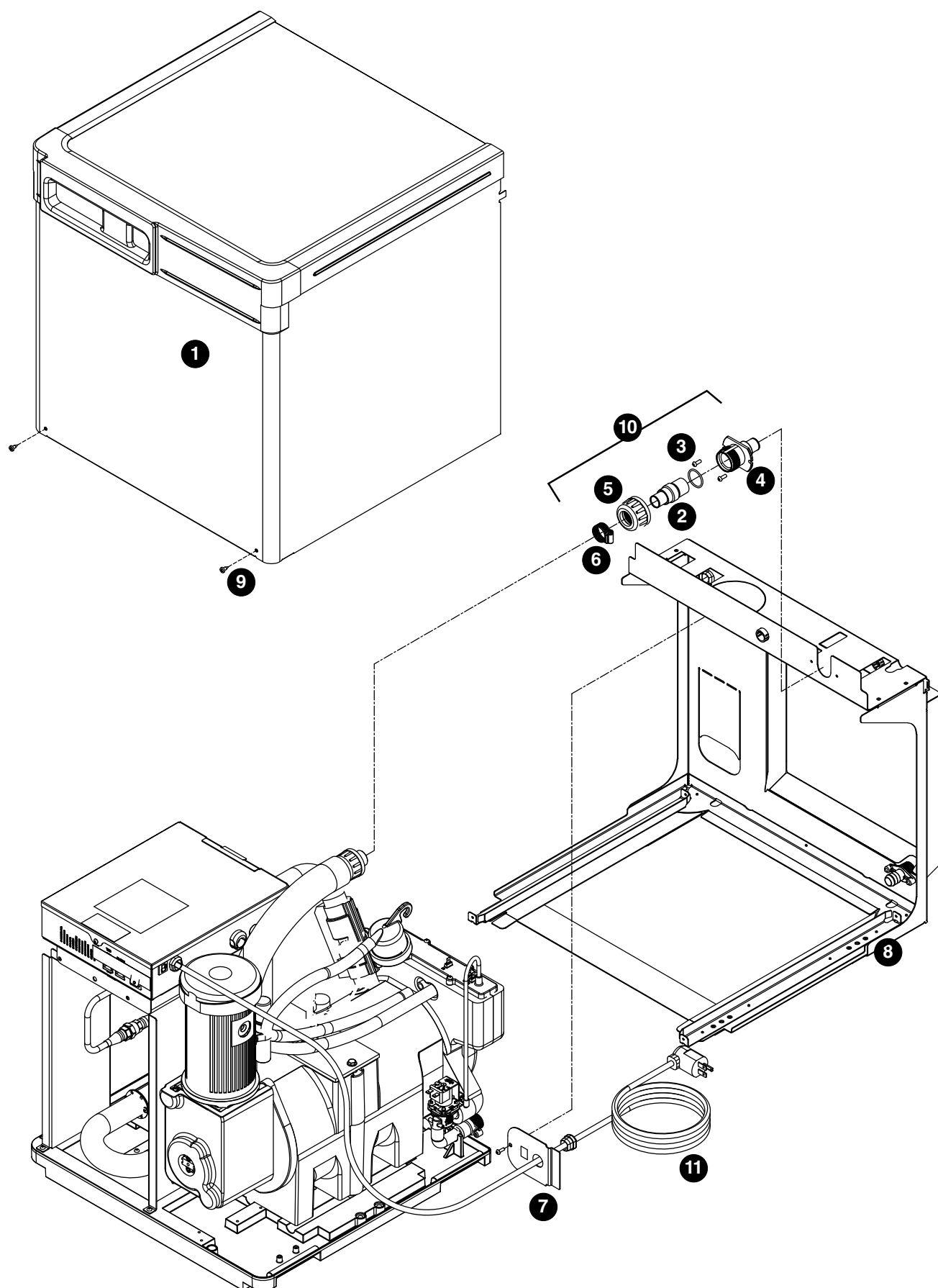
### RIDE model configuration





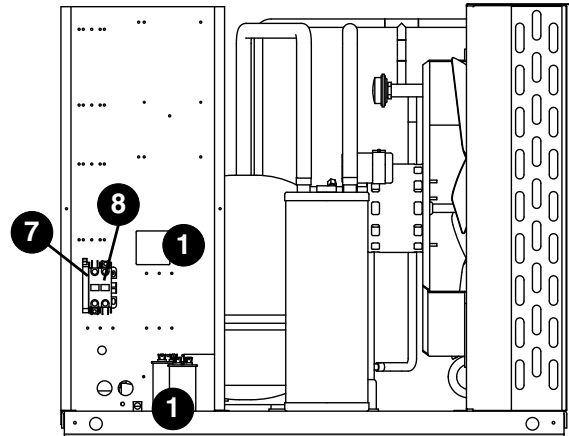
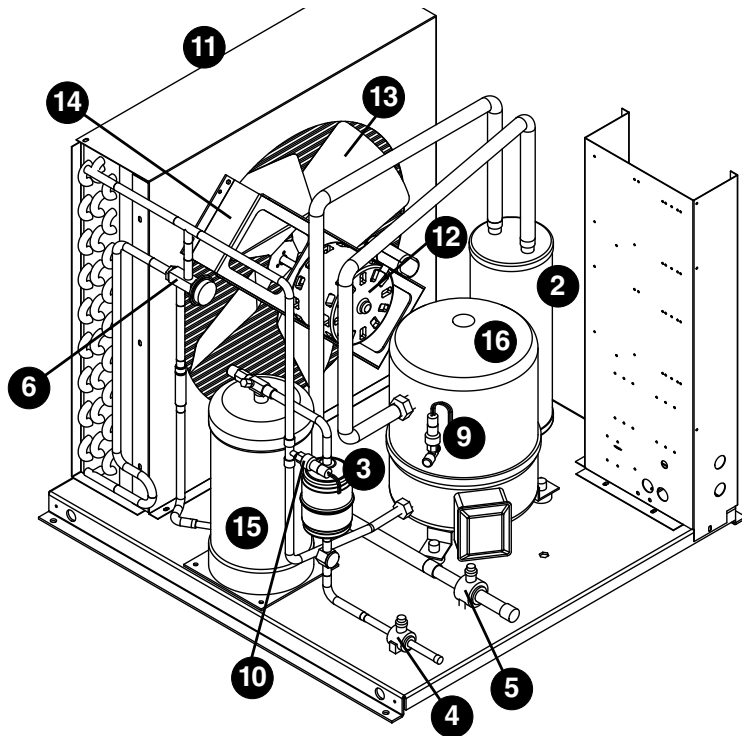
| Reference # | Description                                                                                                              | Part #   |
|-------------|--------------------------------------------------------------------------------------------------------------------------|----------|
| 1           | Shuttle actuator                                                                                                         | 00171322 |
| 2           | Clamp                                                                                                                    | 500377   |
| 3           | Actuator elbow (includes 00167122 and 209100)                                                                            | 00171264 |
| 4           | Screws                                                                                                                   | 01303064 |
| 5           | Gasket                                                                                                                   | 01303072 |
| 6           | Actuator body                                                                                                            | 00171272 |
| 7           | Gasket, coupling                                                                                                         | 01303080 |
| 8           | Ring, locking (includes 00126532)                                                                                        | 00171371 |
| 9           | Ice transport tube, 10' (3m)                                                                                             | 00171280 |
| 9           | Ice transport tube, 20' (6m)                                                                                             | 00171298 |
| 10          | Insulation, transport tube                                                                                               | 501176   |
| Not shown   | Insulated polywire ice transport tube, per foot                                                                          | 00174896 |
| 11          | Insulation, elbow                                                                                                        | 01303098 |
| 12          | Insulation, actuator                                                                                                     | 01303106 |
| 13          | Ice transport tube, top mount, 30" (762mm)                                                                               | 00171306 |
| 14          | Extension-fill tube, 9"                                                                                                  | 01303114 |
| 14          | Extension-fill tube, 4"                                                                                                  | 01303122 |
| Not shown   | Integration kit, top mount, Harmony or Bin                                                                               | 00171389 |
| Not shown   | Integration kit, RIDE model, Harmony or Bin, (includes 10' (3m) of tube and insulation)                                  | 00171397 |
| Not shown   | Integration kit, drop in                                                                                                 | 00145334 |
| Not shown   | Integration kit, Cornelius PR150                                                                                         | 00144774 |
| Not shown   | Integration kit, Vision (does not include ice tube)                                                                      | 00997171 |
| Not shown   | Diverter plate (single agitator Cornelius dispensers and left-hand dispense chute on dual-agitator Cornelius dispensers) | 01303130 |
| Not shown   | Diverter plate (right-hand dispense chute on dual-agitator dispensers)                                                   | 00996207 |
| Not shown   | SafeCLEAN Plus, case of 6                                                                                                | 01149954 |
| Not shown   | SafeCLEAN Plus, case of 24                                                                                               | 01149962 |
| Not shown   | SafeCLEAN Plus, case of 4 one gallon bottles                                                                             | 01555077 |
| Not shown   | Sani-Sponge kit                                                                                                          | 00132068 |
| Not shown   | High-capacity filter system                                                                                              | 01303148 |
| Not shown   | Primary filter (1)                                                                                                       | 00978965 |
| Not shown   | Primary filter (6)                                                                                                       | 00978973 |
| Not shown   | Pre-filter (1)                                                                                                           | 00130211 |
| Not shown   | Pre-filter (12)                                                                                                          | 00954305 |
| Not shown   | Sponge, sanitary, pack of 24                                                                                             | 01075431 |
| Not shown   | Cable, Comm, IMDV-2CM board interface                                                                                    | 01551365 |
| Not shown   | Kit, Legacy IMDV Dual spring (included IMDV cartridge and communication cable)                                           | 01116177 |

## Skins assembly



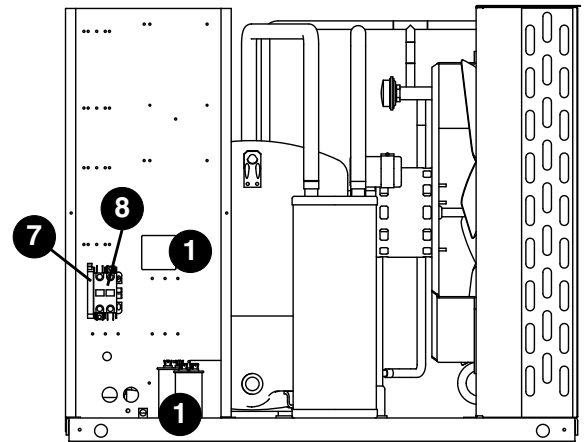
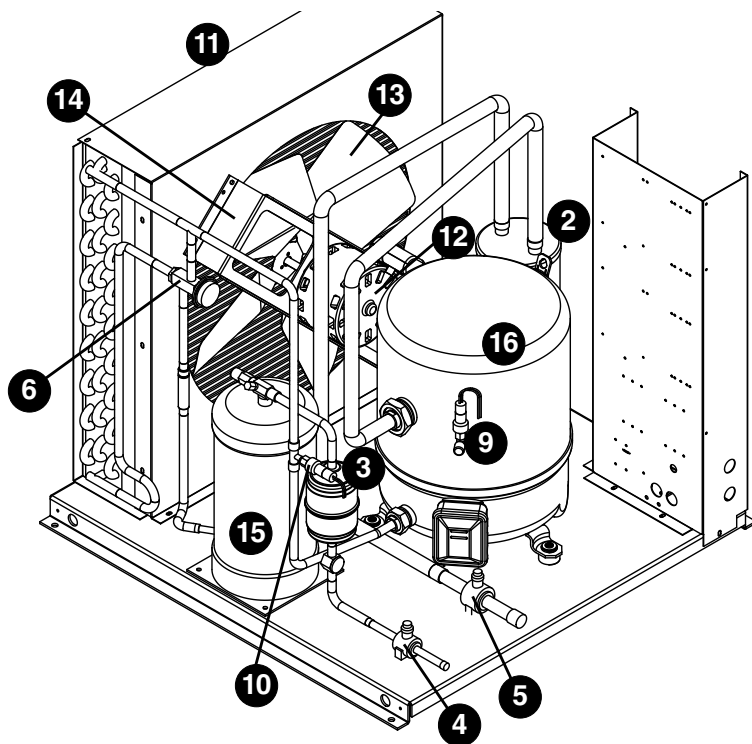
| Reference # | Description                                                       | Part #               |
|-------------|-------------------------------------------------------------------|----------------------|
| 1           | Cover, front                                                      | 01403237             |
| 2           | Coupling (includes O-ring)                                        | 00171207             |
| 3           | O-ring                                                            | 01303171             |
| 4           | Bulkhead fitting                                                  | 00171215             |
| 5           | Nut                                                               | 01303189             |
| 6           | Hose clamp                                                        | 500377               |
| 7           | Plate, strain relief                                              | 00192070             |
| 8           | Docking assembly (includes strain relief plate, bulkhead fitting) | 01403245             |
| 9           | Screw                                                             | 01303197             |
| 10          | Bulkhead connector kit                                            | 00171223             |
| 11          | Cord and plug, power                                              | 01111491             |
| Not shown   | Fitting, drain                                                    | 00109728             |
| Not shown   | Cover, rear (1810)                                                | 01403211 (1810 only) |
| Not shown   | Cover, rear (2110)                                                | 01403229 (2110 only) |

## 1810 Single-phase condensing unit



| Reference # | Description                                                                          | Part #                   |
|-------------|--------------------------------------------------------------------------------------|--------------------------|
| 1           | Start/Run Kit, 1810 (includes start relay, two run capacitors and a start capacitor) | <a href="#">01170125</a> |
| 2           | Accumulator, Suction Line                                                            | <a href="#">01170133</a> |
| Not shown   | Valve, Check                                                                         | <a href="#">01170141</a> |
| 3           | Filter/Drier                                                                         | <a href="#">01170158</a> |
| 4           | Valve, Ball, 3/8"                                                                    | <a href="#">01170166</a> |
| 5           | Valve, Ball, 7/8"                                                                    | <a href="#">01170174</a> |
| 6           | Control, Head Pressure                                                               | <a href="#">01170182</a> |
| Not shown   | Heater, Crankcase                                                                    | <a href="#">01170190</a> |
| 7           | Contactor Kit (includes both main contactor and aux switch)                          | 01453794                 |
| 8           |                                                                                      |                          |
| 9           | Control, Pressure, Low                                                               | <a href="#">01170224</a> |
| 10          | Control, Pressure, High                                                              | <a href="#">01170232</a> |
| Not shown   | Heater, Receiver                                                                     | <a href="#">01170240</a> |
| Not shown   | Thermostat, Receiver Heater                                                          | <a href="#">01170257</a> |
| 11          | Coil, Condenser                                                                      | <a href="#">01170265</a> |
| 12          | Motor, Condenser Fan                                                                 | <a href="#">01170273</a> |
| 13          | Blade, Fan                                                                           | <a href="#">01170281</a> |
| 14          | Bracket, Fan Motor                                                                   | <a href="#">01170299</a> |
| Not shown   | Guard, Hail                                                                          | <a href="#">01170307</a> |
| 15          | Receiver Assembly, Heated                                                            | <a href="#">01170331</a> |
| 16          | Compressor, 1810, 1PH                                                                | <a href="#">01170349</a> |

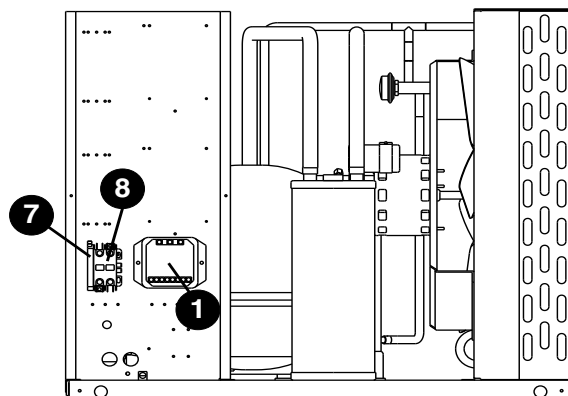
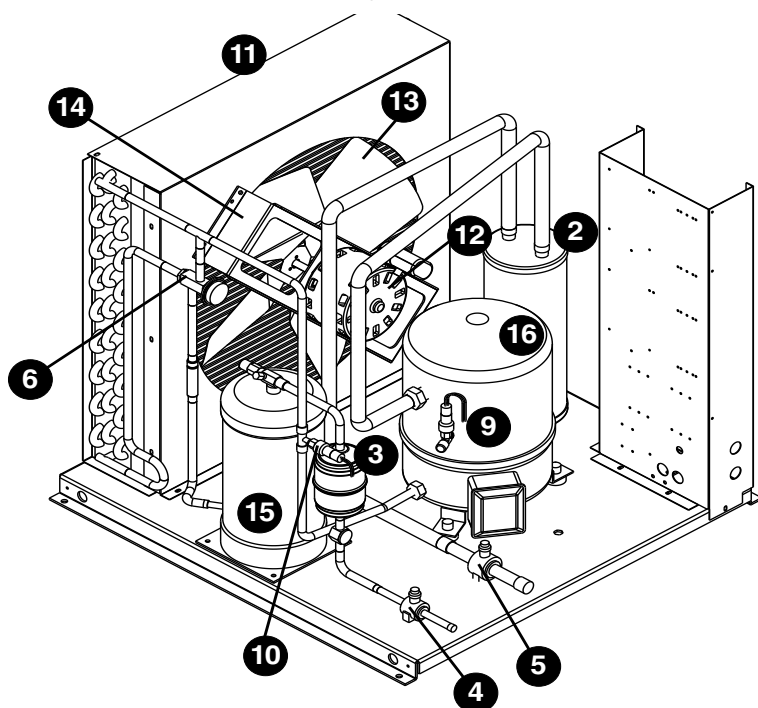
## 2110 Single-phase condensing unit



| Reference # | Description                                                                          | Part #                   |
|-------------|--------------------------------------------------------------------------------------|--------------------------|
| 1           | Start/Run Kit, 2110 (includes start relay, two run capacitors and a start capacitor) | <a href="#">01170315</a> |
| 2           | Accumulator, Suction Line                                                            | <a href="#">01170133</a> |
| Not shown   | Valve, Check                                                                         | <a href="#">01170141</a> |
| 3           | Filter/Drier                                                                         | <a href="#">01170158</a> |
| 4           | Valve, Ball, 3/8"                                                                    | <a href="#">01170166</a> |
| 5           | Valve, Ball, 7/8"                                                                    | <a href="#">01170174</a> |
| 6           | Control, Head Pressure                                                               | <a href="#">01170182</a> |
| Not shown   | Heater, Crankcase                                                                    | <a href="#">01170190</a> |
| 7           | Contactor Kit (includes both main contactor and aux switch)                          | 01453794                 |
| 8           |                                                                                      |                          |
| 9           | Control, Pressure, Low                                                               | <a href="#">01170224</a> |
| 10          | Control, Pressure, High                                                              | <a href="#">01170232</a> |
| Not shown   | Heater, Receiver                                                                     | <a href="#">01170240</a> |
| Not shown   | Thermostat, Receiver Heater                                                          | <a href="#">01170257</a> |
| 11          | Coil, Condenser                                                                      | <a href="#">01170265</a> |
| 12          | Motor, Condenser Fan                                                                 | <a href="#">01170273</a> |
| 13          | Blade, Fan                                                                           | <a href="#">01170281</a> |
| 14          | Bracket, Fan Motor                                                                   | <a href="#">01170299</a> |
| Not shown   | Guard, Hail                                                                          | <a href="#">01170307</a> |
| 15          | Receiver Assembly, Heated                                                            | <a href="#">01170331</a> |
| 16          | Compressor, 2110, 1PH                                                                | 01204940                 |

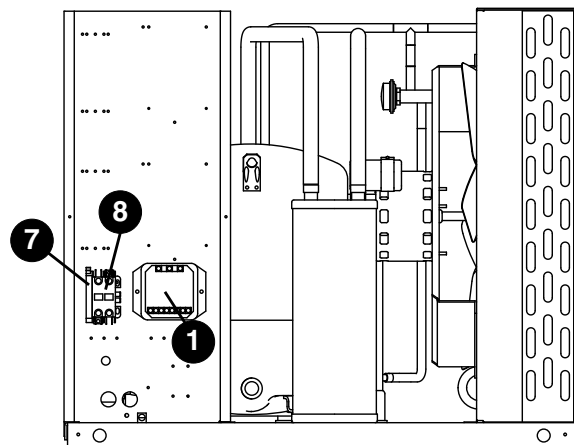
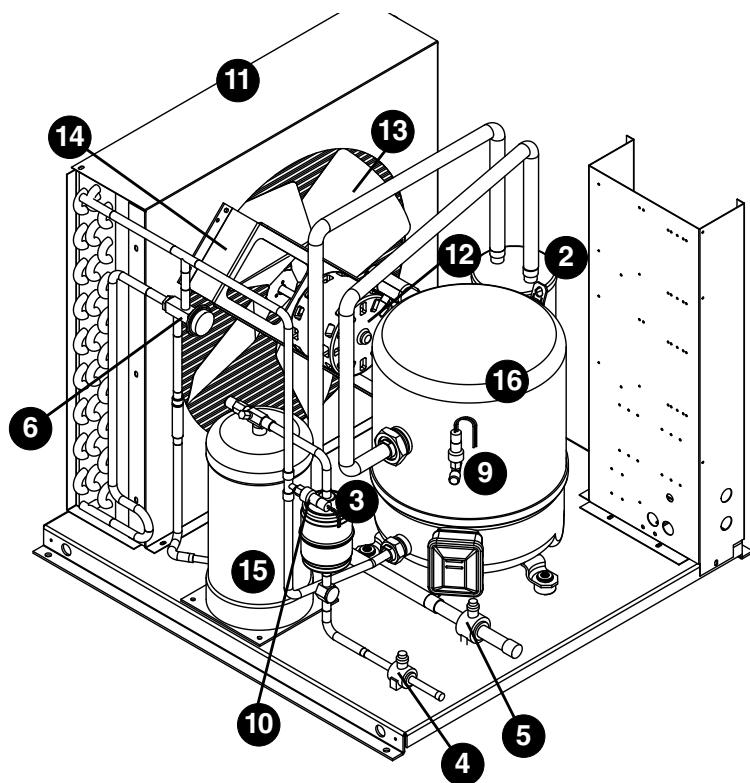
**Note:** Overload is internal to compressor.

## 1810 3-phase condensing unit



| Reference # | Description                                                 | Part #                   |
|-------------|-------------------------------------------------------------|--------------------------|
| 1           | Monitor, Phase                                              | <a href="#">01170323</a> |
| 2           | Accumulator, Suction Line                                   | <a href="#">01170133</a> |
| Not shown   | Valve, Check                                                | <a href="#">01170141</a> |
| 3           | Filter/Drier                                                | <a href="#">01170158</a> |
| 4           | Valve, Ball, 3/8"                                           | <a href="#">01170166</a> |
| 5           | Valve, Ball, 7/8"                                           | <a href="#">01170174</a> |
| 6           | Control, Head Pressure                                      | <a href="#">01170182</a> |
| Not shown   | Heater, Crankcase                                           | <a href="#">01170190</a> |
| 7           | Contactor Kit (includes both main contactor and aux switch) | 01453778                 |
| 8           |                                                             |                          |
| 9           | Control, Pressure, Low                                      | <a href="#">01170224</a> |
| 10          | Control, Pressure, High                                     | <a href="#">01170232</a> |
| Not shown   | Heater, Receiver                                            | <a href="#">01170240</a> |
| Not shown   | Thermostat, Receiver Heater                                 | <a href="#">01170257</a> |
| 11          | Coil, Condenser                                             | <a href="#">01170265</a> |
| 12          | Motor, Condenser Fan                                        | <a href="#">01170273</a> |
| 13          | Blade, Fan                                                  | <a href="#">01170281</a> |
| 14          | Bracket, Fan Motor                                          | <a href="#">01170299</a> |
| Not shown   | Guard, Hail                                                 | <a href="#">01170307</a> |
| 15          | Receiver Assembly, Heated                                   | <a href="#">01170331</a> |
| 16          | Compressor, 1810, 3PH                                       | <a href="#">01170356</a> |

## 2110 3-phase condensing unit



| Reference # | Description                                                 | Part #   |
|-------------|-------------------------------------------------------------|----------|
| 1           | Monitor, Phase                                              | 01170323 |
| 2           | Accumulator, Suction Line                                   | 01170133 |
| Not shown   | Valve, Check                                                | 01170141 |
| 3           | Filter/Drier                                                | 01170158 |
| 4           | Valve, Ball, 3/8"                                           | 01170166 |
| 5           | Valve, Ball, 7/8"                                           | 01170174 |
| 6           | Control, Head Pressure                                      | 01170182 |
| Not shown   | Heater, Crankcase                                           | 01170190 |
| 7           | Contactor Kit (includes both main contactor and aux switch) | 01453778 |
| 8           |                                                             |          |
| 9           | Control, Pressure, Low                                      | 01170224 |
| 10          | Control, Pressure, High                                     | 01170232 |
| Not shown   | Heater, Receiver                                            | 01170240 |
| Not shown   | Thermostat, Receiver Heater                                 | 01170257 |
| 11          | Coil, Condenser                                             | 01170265 |
| 12          | Motor, Condenser Fan                                        | 01170273 |
| 13          | Blade, Fan                                                  | 01170281 |
| 14          | Bracket, Fan Motor                                          | 01170299 |
| Not shown   | Guard, Hail                                                 | 01170307 |
| Not shown   | Monitor, Phase                                              | 01170323 |
| 15          | Receiver Assembly, Heated                                   | 01170331 |
| 16          | Compressor, 2110, 3PH                                       | 01204924 |

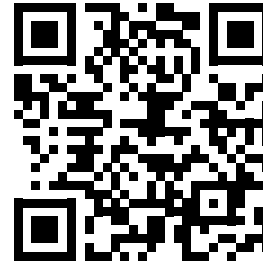
**Note:** Overload is internal to compressor.

# Evaporator Scale Removal

## Topic

This procedure is to be used for manual/hand cleaning Horizon Elite evaporators with difficult to remove scale. Standard chemical cleans (as described in the operation and service manuals) should be performed first. In the event that a standard cleaning does not remove the scale, this procedure can be performed.

To watch the Manual Cleaning (hand cleaning) Service Video, scan the QR code and search the Horizon Elite videos.



Follett Service Video Library

## Action

1. Follow the Evaporator disassembly instructions on Page 21.
2. Thoroughly dry the inside of the evaporator barrel and let it warm to room temperature. The evaporator must be warm and dry before you will be able to observe the scale formation.
3. Confirm there is a white/gray haze inside the evaporator (Fig. 35).

Fig. 35



4. If scale is present, use 120 grit sanding cloth in an in-and-out motion only, sand off any scale inside the evaporator (Fig. 36). *Do not sand the front 2 inches of the barrel - by design that portion has a highly polished surface.*

**Caution!** Failure to follow this motion will result in further machine errors. Do not use a circular motion.

Fig. 36





5. Inspect the stainless steel auger. When it is warm and dry, check for signs of accumulated scale. Scale will appear as a white or gray haze (Fig. 37).

**Fig. 37**



6. If there is any indication of scale on the auger, it can be cleaned with ice machine cleaner and a Scotch brite pad.  
**Caution!** *Do not use anything more abrasive than a Scotch brite pad on the auger surface. Failure to heed this warning will cause irreversible damage to the auger's finish.*
7. Once clean, rinse and allow auger to dry again to confirm all scale has been removed, if scale is still present, repeat Step 6.
8. When evaporator sanding is complete, thoroughly wipe out the inside of the barrel (Fig. 38).

Fig. 38



9. Reassemble the evaporator as described on Page 24.

**Note:** Before placing gear motor on auger shaft, coat auger shaft with food safe grease - *DO NOT USE petrol gel!*

10. Inspect the purge solenoid, clean as necessary and reassemble.
11. Inspect the drain line to the manifold and clean as necessary.
12. Perform the Cleaning/sanitizing and preventive maintenance procedure (Page 9). Confirm proper operation afterwards and place the machine back into operation.

## Rejestracja gwarancji i ocena sprzętu

Dziękujemy za zakup urządzenia firmy Follett. Mamy nadzieję, że nasze urządzenia spełniają i przekraczają Państwa oczekiwania, gdyż naszym celem jest dostarczenie klientom wysoce wartościowych produktów i usług, zasługujących na ich pełne uznanie.

Prosimy zapoznać się z załączoną instrukcją instalacji i obsługi. Istotne jest przeprowadzenie instalacji zgodnie z wymogami producenta, co zapewni działanie urządzenia z maksymalną wydajnością.

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Gracias por haber elegido este producto Follett®. Esperamos que nuestro equipo cumpla o supere sus expectativas porque es nuestro objetivo ofrecer productos y servicios de gran valor que se ganen su plena confianza.

Le rogamos consulte el manual de instalación y de instrucciones adjunto, ya que es muy importante que la instalación se realice según las especificaciones de fábrica para que el equipo funcione a su máxima eficiencia.

**Follett LLC no se hace responsable de los daños indirectos, costos, gastos por conexión y desconexión o pérdidas por causa de defecto de la máquina.**

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**Las operaciones de registro de la garantía y evaluación del equipo son importantes para que podamos realizar un seguimiento de nuestro equipo y registrar el rendimiento de la maquinaria. Por favor, registre las garantías del equipo Follett en nuestro sitio web [www.follettice.com/support](http://www.follettice.com/support) y seleccione Registro de la Garantía y Evaluación del Equipo. Es muy sencillo, solo le llevará un momento realizar hoy mismo el registro. En el formulario incluimos un espacio en blanco para sus comentarios y opiniones. Infórmenos sobre su experiencia para que podamos incorporarla a nuestros continuos esfuerzos de mejora.**

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Merci d'avoir acheté un équipement Follett®. Notre objectif étant d'offrir des produits et des services de grande valeur vous satisfaisant pleinement, nous espérons que celui-ci satisfera, voire dépassera, vos attentes !

Veuillez consulter le manuel d'installation et d'exploitation. Il est important que l'installation soit réalisée conformément aux spécifications de l'usine, de sorte que votre équipement fonctionne à son rendement maximum.

**Follett LLC n'est pas responsable de tout dommage consécutif, de toute dépense, de tout frais de raccordement ou de déconnexion, ni de toute perte liée à un défaut de la machine.**

Pour lire la garantie dans son ensemble, visitez notre site Internet [www.follettice.com/productwarranties](http://www.follettice.com/productwarranties).

L'enregistrement de la garantie et l'évaluation de l'équipement sont importants pour nous aider à suivre notre équipement et pour enregistrer les performances de la machine. Nous vous demandons donc d'enregistrer la garantie de votre équipement Follett sur notre site Internet, [www.follettice.com/support](http://www.follettice.com/support), dans la section Warranty Registration and Equipment Evaluation. Cette opération est simple ; veuillez prendre un moment pour la réaliser aujourd'hui.

**Le formulaire contient également un espace pour nous faire parvenir vos commentaires et un retour**

**d'informations. Veuillez nous faire part de votre expérience pour que nous puissions prendre appui dessus pour poursuivre nos efforts constants d'amélioration.**

Nous sommes fiers de produire des équipements exceptionnels et nous travaillons avec acharnement pour y associer une assistance à la clientèle et technique exceptionnelle. N'hésitez pas à nous indiquer dans quelle mesure nous pouvons vous aider. Nous serions ravis de répondre à vos questions.

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Lesen Sie sich bitte die beiliegende Installations- und Betriebsanleitung durch. Es ist wichtig, dass die Installation entsprechend den Werksangaben erfolgt, damit Ihr Produkt mit maximalem Wirkungsgrad arbeiten kann.

**Follett LLC ist nicht für Folgeschäden, Ausgaben, Gebühren für Anschluss oder Abschaltung oder Verluste aufgrund eines Defekts der Maschine haftbar.**

Vollständige Garantieinformationen finden Sie auf unserer Website unter [www.follettice.com/productwarranties](http://www.follettice.com/productwarranties).

**Garantieregistrierung und Produktbeurteilung sind wichtig, damit wir einen Überblick über unsere Produkte behalten und ihre Effizienz bewerten können. Wir möchten Sie bitten, Garantien für Follett-Produkte auf unserer Website [www.follettice.com/support](http://www.follettice.com/support) zu registrieren und den Punkt „Garantieregistrierung und Produktbeurteilung“ zu wählen. Es ist ganz einfach. Nehmen Sie sich bitte einen Moment Zeit, um die Registrierung heute vorzunehmen. Auf dem Formular ist auch Platz für Kommentare und Feedback vorhanden. Teilen Sie uns bitte Ihre Erfahrungen mit unseren Produkten mit, damit wir sie für unsere fortlaufenden Produktverbesserungen verwenden können.**

Wir sind stolz darauf, dass wir besondere Produkte herstellen, und wir bemühen uns, unsere Produkte mit besonderem Kundendienst zu unterstützen. Lassen Sie uns bitte wissen, was wir noch für Sie tun können. Wir werden Ihre Fragen gerne beantworten.

## **Registrazione della garanzia e valutazione dell'attrezzatura**

Grazie per aver acquistato un dispositivo Follett®. Ci auguriamo che il nostro prodotto soddisfi o superi le Sue aspettative, in quanto il nostro obiettivo è quello di offrire prodotti e servizi di alta qualità che soddisfino pienamente le vostre esigenze!

La preghiamo di leggere attentamente il manuale per l'installazione e per l'uso allegato. È infatti importante che l'installazione sia effettuata secondo le specifiche di fabbrica in modo tale che il dispositivo operi con la massima efficienza.

**La Follett LLC non si assume alcuna responsabilità per danni conseguenti, spese, costi di collegamento o scollegamento o eventuali perdite dovute ad un difetto della macchina.**

Per visualizzare i dettagli completi relativi alla garanzia, recarsi alla pagina [www.follettice.com/productwarranties](http://www.follettice.com/productwarranties).

**La registrazione della garanzia e la valutazione dell'attrezzatura sono importanti per aiutarci a tenere traccia dei nostri dispositivi e a registrare le prestazioni della macchina. Le chiediamo dunque di registrare le garanzie relative al dispositivo Follett sul nostro sito Web alla pagina [www.follettice.com/support](http://www.follettice.com/support) scegliendo Registrazione della garanzia e Valutazione dell'attrezzatura. Farlo è semplice; dedichi pochi minuti a registrare il prodotto oggi stesso. Sul modulo è inoltre previsto uno spazio in cui potrà fornirci i Suoi commenti e il Suo riscontro. Ci faccia sapere della Sua esperienza in modo che possiamo farne tesoro per il nostro continuo miglioramento.**

Siamo orgogliosi di produrre macchinari di ottima qualità e lavoriamo sodo per offrire un servizio di assistenza clienti e tecnico di qualità altrettanto elevata. Ci faccia sapere come possiamo esserle di aiuto. Saremo lieti di rispondere a tutte le Sue domande.

## Registo da garantia e avaliação do equipamento

Obrigado por ter adquirido equipamento Follett®. Fazemos votos de que o nosso equipamento cumpra ou exceda as suas expectativas, dado que temos por objetivo fornecer produtos e serviços de elevado valor que mereçam a sua total satisfação!

Pedimos-lhe que leia o manual de instalação e operações em anexo. É importante que a instalação seja levada a cabo de acordo com as especificações da fábrica, para que o seu equipamento funcione com a eficiência máxima.

**A Follett LLC não assume a responsabilidade por quaisquer prejuízos indiretos, despesas, custos de ligação ou desligação ou quaisquer outras perdas decorrentes de um defeito na máquina.**

Para consultar os dados da garantia, visite o nosso website [www.follettice.com/productwarranties](http://www.follettice.com/productwarranties).

**O registo da garantia e a avaliação do equipamento são importantes para nos ajudar a estar a par do nosso equipamento e registar o desempenho da máquina. Pedimos-lhe que registre as garantias de equipamento Follett no nosso website [www.follettice.com/support](http://www.follettice.com/support), em “Warranty Registration and Equipment Evaluation”. É muito simples; tire uns minutos para fazer o registo hoje mesmo. O formulário inclui também espaço para os seus comentários e feedback. Conte-nos a sua experiência para que possamos usá-la nos nossos esforços contínuos de melhoria.**

Temos muito orgulho em produzir equipamento excecional e empenhamo-nos em proporcionar um apoio técnico e um apoio ao cliente igualmente excecionais. Diga-nos o que mais podemos fazer para o ajudar. Teremos todo o prazer em responder às suas perguntas.

## Registrering af garanti og evaluering af udstyr

Tak for dit køb af Follett®-udstyr. Forhåbentlig synes du, at vores udstyr lever op til eller overstiger dine forventninger, for vores målsætning er at levere produkter og serviceydelser af høj kvalitet, som du er fuldstændig tilfreds med!

Gennemlæs venligst den vedlagte installations- og driftsmanual. Det er vigtigt at installationen udføres i henhold til fabriksspecifikationerne, så dit udstyr kan fungere med maksimal effektivitet.

**Follett LLC hæfter ikke for følgeskader, udgifter, tilslutnings- eller frakoblingsomkostninger eller nogen form for tab, der skyldes en maskindefekt.**

Du kan læse de fulde oplysninger om garantien på vores website [www.follettice.com/productwarranties](http://www.follettice.com/productwarranties).

**Registrering af garantien og evaluering af udstyret er vigtigt for at hjælpe os med at følge op på vores udstyr og registrere maskinens ydelse. Vi beder dig registrere garantier på Follett-udstyr på vores website [www.follettice.com/support](http://www.follettice.com/support) og vælge Warranty Registration and Equipment Evaluation (Registrering af garanti og evaluering af udstyr). Det er nemt at gøre, så vi beder dig bruge et øjeblik på at registrere dig i dag. Formularen har også plads til, at du kan give os kommentarer og feedback. Fortæl os om dine erfaringer, så vi kan bruge dem i vores fortsatte bestræbelser på at forbedre os.**

Vi sætter en ære i at fremstille udstyr i særklasse og arbejder hårdt på at kunne bakke udstyret op med fremragende kundeservice og teknisk support. Fortæl os, hvad vi ellers kan gøre for at hjælpe dig. Vi svarer gerne på dine spørgsmål.

## Registratie van garanties en beoordeling van apparatuur

Gefeliciteerd met uw aankoop van Follett®-apparatuur. We hopen dat onze apparatuur uw verwachtingen invult of zelfs overstijgt, omdat we ernaar streven om hoogwaardige producten en diensten te leveren die u uitermate tevreden stellen!

Lees de bijgevoegde installatie- en bedieningshandleiding zorgvuldig door. Het is belangrijk dat de installatie uitgevoerd wordt volgens de fabrieksspecificaties, zodat uw apparatuur zo efficiënt mogelijk werkt.

**Follett LLC is niet aansprakelijk voor enige gevolgschade, uitgaven, montage- of demontagekosten of enige door een defect van de machine geleden verliezen.**

Bezoek onze website [www.follettice.com/productwarranties](http://www.follettice.com/productwarranties) voor alle garantiegegevens.

**De registratie van garanties en de beoordeling van apparatuur is belangrijk voor ons om onze apparatuur te helpen traceren en de prestaties van de machine te registreren. We verzoeken u dan ook om garanties**

van Follett-uitrusting te registreren op onze website [www.follettice.com/support](http://www.follettice.com/support) en om “Warranty Registration” (Registratie van garanties) en “Equipment Evaluation” (Beoordeling van apparatuur) te kiezen. Gelieve hier even tijd voor vrij te maken. Het is namelijk zeer eenvoudig. Er is op het formulier ook plaats om opmerkingen en feedback te geven. Breng ons gerust op de hoogte over uw ervaring met onze apparatuur, zodat we ons kunnen blijven verbeteren.

We zijn trots op onze productie van uitstekende apparatuur en werken hard om dit bij te staan door een voortreffelijke klantendienst en technische ondersteuning. Aarzel echter niet om enige andere bijstand te vragen. We zullen uw vragen met plezier beantwoorden.

## Garantiregistrering och utvärdering av utrustning

Tack för att du köpt utrustning från Follett®. Vi hoppas att du ska tycka att den uppfyller eller överträffar dina förväntningar, då vårt mål är att leverera produkter och tjänster av högt värde som gör dig helt nöjd!

Studera medföljande installations- och bruksanvisning. Det är viktigt att installationen genomförs enligt fabrikens anvisningar så att din utrustning arbetar med högsta effektivitet.

**Follett LLC ansvarar inte för följdskador, kostnader, avgifter eller förluster som orsakats av fel på maskinen.**

Fullständiga garantivillkor finns på vår hemsida [www.follettice.com/productwarranties](http://www.follettice.com/productwarranties).

**Garantiregistrering och utvärdering av utrustning är viktig för oss så att vi kan följa upp vår utrustning och dess funktion. Vi vill att du registrerar Folletts utrustningsgaranti på vår hemsida [www.follettice.com/support](http://www.follettice.com/support), där du väljer Garantiregistrering och produktutvärdering. Det är enkelt att göra, så ta dig tid en minut och registrera dig idag. Det finns också utrymme på blanketten för kommentarer och synpunkter. Berätta för oss vad du tycker så att vi kan använda det i våra ansträngningar att alltid bli bättre.**

Vi är stolta över att producera överlägsen utrustning och vi arbetar hårt med att stötta den med överlägset kundansvar och tekniskt stöd. Tala om för oss vad vi kan göra mer för att hjälpa dig. Vi svarar gärna på dina frågor.

## 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.

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