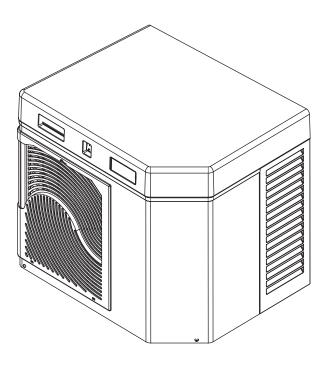
HCE1000A, HCE1000W 50Hz Icemakers

Order parts online www.follettice.com

Operation and Service Manual After Serial Number C20000



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





Follett Corporation Equipment Return Policy

Follett equipment may be returned for credit under the following conditions:

1. The equipment is new and unused.

- 2. A return authorization number has been issued by customer service within 30 days after shipment.
- Follett receives the equipment at the factory in Easton, PA within 30 days after issuance of the return authorization number.
 The equipment must be returned in Follett packaging. If the packaging has been damaged or discarded, Follett will forward, at the customer's expense, new packaging.

Return freight charges are the responsibility of the customer. If equipment is returned and is damaged because of improper packaging, Follett Corporation will not be held responsible.

Credit will be issued when:

The equipment has been inspected by Follett and deemed suitable to be returned to stock.

A 15% restocking charge will be deducted from the credit. If the cost to return the product to stock exceeds 15%, the actual cost will be deducted.

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Welcome to Follett

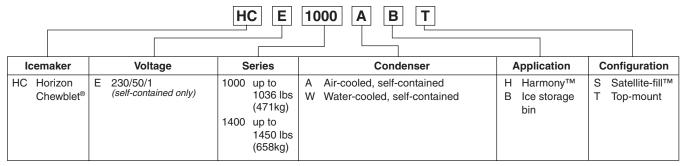
Follett equipment enjoys a well-deserved reputation for excellent performance, long-term reliability and outstanding after-the-sale support. To ensure that this equipment delivers the same degree of service, we ask that you review the installation manual (provided as a separate document) before beginning 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 (800) 523-9361 or (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 Corporation so that we can help in the filing of a claim, if necessary.

Check your paperwork to determine which model you have. Follett model numbers are designed to provide information about the type and capacity of Follett equipment. Following is an explanation of the different model numbers in the 1000 series.

Horizon Series Icemaker Model Number Configurations



Chewblet is a registered trademark of Follett Corporation, registered in the US.

⚠ 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
- 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

Each icemaker requires its own separate circuit with electrical disconnect within 10 ft (6m).

Equipment ground required.

Standard electrical - 220-240/50/1

Maximum icemaker fuse - 15 amps

Amperage – 11 amps

Maximum power - 3600 watts

Climatic class - N

6 ft (2m) cord provided on icemaker

⚠ CAUTION

- Plug must be provided by the end-user and must conform to standard EN 60 335-2-24:2003 of the end destination
- If the supply cord is damaged, it must be replaced by the manufacturer or their service agent, or a similarly
 qualified technician in order to avoid a hazard

Plumbing

3/8" OD push-in water inlet

3/4" MPT drain

1/4" FPT condenser inlet (water-cooled condenser only)

1/4" FPT condenser drain (water-cooled condenser only)

Notes: 3/4" vented drain line must slope a minimum of 1/4" per foot (6mm per 30.4cm run).

Drain to be hard piped and insulated.

To prevent back flow, do not connect drains. Separate drains for icemaker and condenser.

Water shut-off recommended within 10 feet (3m).

Follett recommends installation of Follett model 00130286 activated carbon filter

in icemaker inlet water line.

Ambient

Air temperature100°F/38°C max.50°F/10°C min.Water temperature90°F/32°C max.45°F/7°C min.Water pressure – potable70 psi max. (483 kPa)10 psi min. (69 kPa)

Note: Water-cooled condenser pressure 150 psi max (1034kPa); 10 psi min (69kPa)

Heat rejection

Air-cooled rejects 11,300 BTU/hr Water-cooled rejects 12,800 BTU/hr

Ice production

Air-cooled icemaker capacity/24 hrs.

	Ambient Air Temperature F/C								
	F	60	70	80	90	100			
	С	16	21	27	32	38			
ပ္င	50	1110	1017	890	761	731	lbs		
e F	10	504	462	404	346	332	kg		
Inlet Water Temperature F/C	60	1054	948	822	738	665	lbs		
per	16	478	430	373	335	302	kg		
Leμ	70	1019	887	770	715	624	lbs		
ē	21	463	403	350	325	283	kg		
Wa	80	979	875	715	671	577	lbs		
je	27	444	397	325	305	262	kg		
=	90	916	787	656	600	521	lbs		
	32	416	357	298	273	237	kg		

Water-cooled icemaker capacity/24 hrs.

	. ,								
	Ambient Air Temperature F/C								
	F	60	70	80	90	100			
	С	16	21	27	32	38			
ပ္	50	1004	969	908	818	695	lbs		
P F	10	456	440	412	371	316	kg		
Inlet Water Temperature F/C	60	965	919	852	766	663	lbs		
per	16	438	417	387	348	301	kg		
e.	70	919	879	817	734	630	lbs		
erT	21	417	399	371	333	286	kg		
Vat	80	837	813	764	684	567	lbs		
et	27	380	369	347	311	258	kg		
⊆	90	781	773	746	676	534	lbs		
	32	355	351	339	307	243	ka		

Dimensions and clearances

Entire front of icemaker must be clear of obstructions/connections to allow removal.

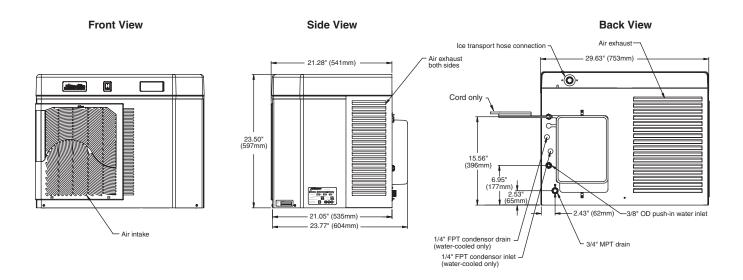
- 1" (26mm) clearance above icemaker for service.
- 1" (26mm) minimum clearance on sides.

The intake and exhaust air grilles must provide at least 150 sq in (968 sq cm) of open area.

Air-cooled model HCE1000A icemakers – 18" (458mm) minimum clearance between discharge and air intake-grilles.

A CAUTION

· Keep ventilation openings in the appliance enclosure or built-in structure, clear of obstruction



Operation

Cleaning 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

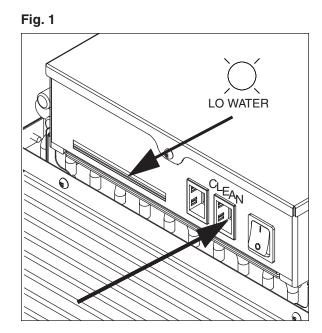
· Wear rubber gloves and safety goggles (and/or face shield) when handling ice machine cleaner or sanitizer

CAUTION

- Use only Follett approved SafeCLEAN™ Cleaner (part #00132001) and NU-CALGON IMS-II SANITIZER
- Do not mix Cleaner and Sanitizer solutions together
- 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 an sanitizing MUST be followed. Ice must be collected for 10 minutes before putting ice machine back into service.

 To clean – Remove cover. Press the CLEAN button. The machine will drain. Wait for the LO WATER light to come on (Fig. 1).



 Mix 1 gallon (3.8L) 120°F (49°C) water and 7 ounces (198g) (one 7 ounce packet of Follett SafeCLEAN ice machine cleaner, part# 00132001). Locate cleaning cup. Fill until HI WATER light comes on (Fig. 2).

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

3. Replace cover on cleaning cup. Wait until machine restarts. Machine will clean, then flush 3 times in approximately 12 minutes (Fig. 3).

4. To sanitize – Press CLEAN button. The machine will drain. Wait for LO WATER light to come on (Fig. 4).

Fig. 2

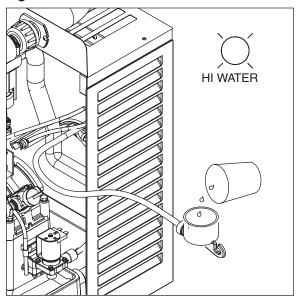


Fig. 3

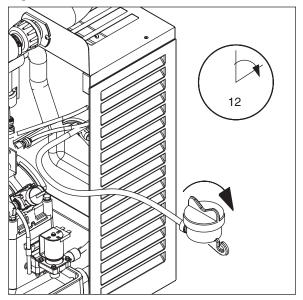
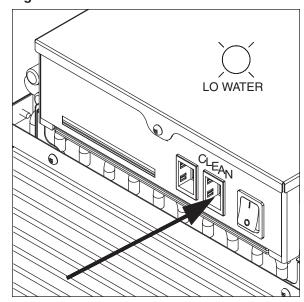


Fig. 4



5. Mix 1 gallon 120°F (49°C) water and 1.6 ounces (48ml) NU-CALGON IMS-II SANITIZER. Fill until HI WATER light comes on (Fig. 5).

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

6. Replace cover on cleaning cup. Wait until machine restarts. Machine will sanitize, then flush 3 times in approximately 12 minutes (Fig. 6).

7. To clean transport tube – Press power switch OFF (Fig. 7).

Fig. 5

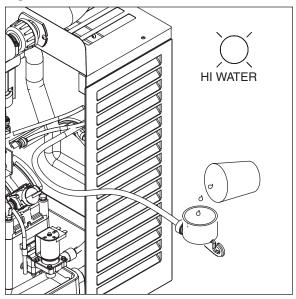


Fig. 6

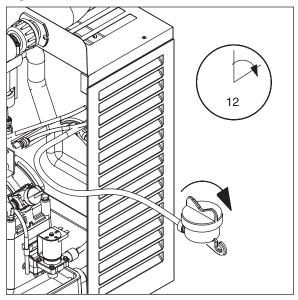
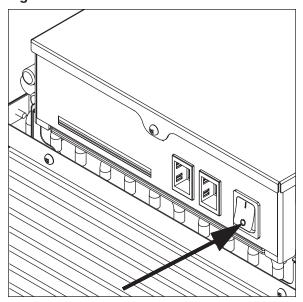
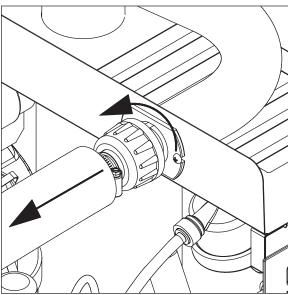


Fig. 7



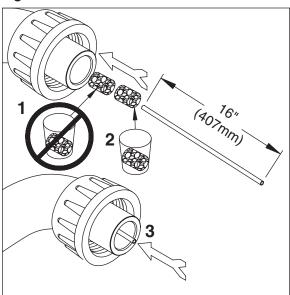
8. Disconnect coupling as shown (Fig. 8).

Fig. 8



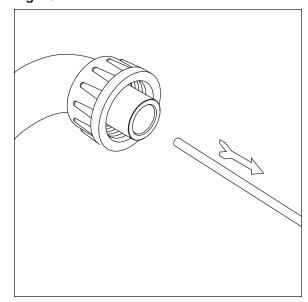
 Using disposable food service grade gloves, insert dry Sani-Sponge™ (kit part# 00132068). Next, insert Sani-Sponge soaked in Nu-Calgon IMS-II sanitizer solution. Push both Sani-Sponges down ice transport tube with supplied pusher tube (Fig. 9).

Fig. 9



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

Fig. 10



11. Reconnect coupling. Press power switch ON. Ice pushes Sani-Sponges through tube (Fig. 11).

12. Place a sanitary (2 gallon or larger) container in bin or dispenser to collect Sani-Sponges and ice for 10 minutes. Collect 5.5 lbs of ice from unit. Discard ice and Sani-Sponges (Fig. 12).

Fig. 11

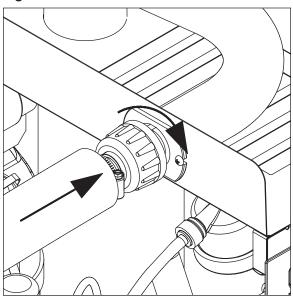
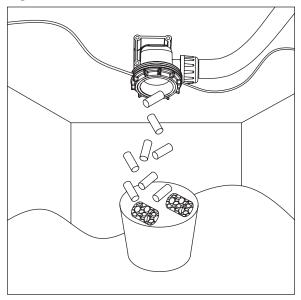


Fig. 12



Service

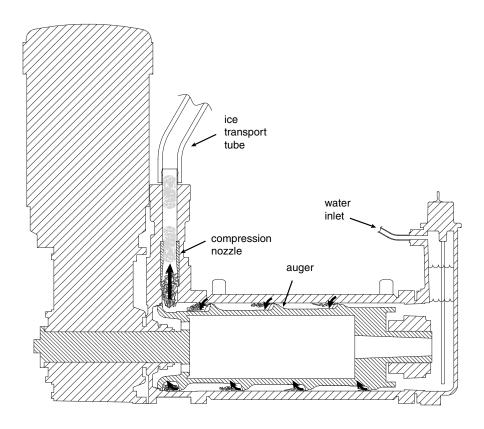
Icemaker operation (all models)

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

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

The Horizon icemaker overview

The Follett Horizon icemaker uses a horizontal, cylindrical evaporator to freeze water on its inner surface. The

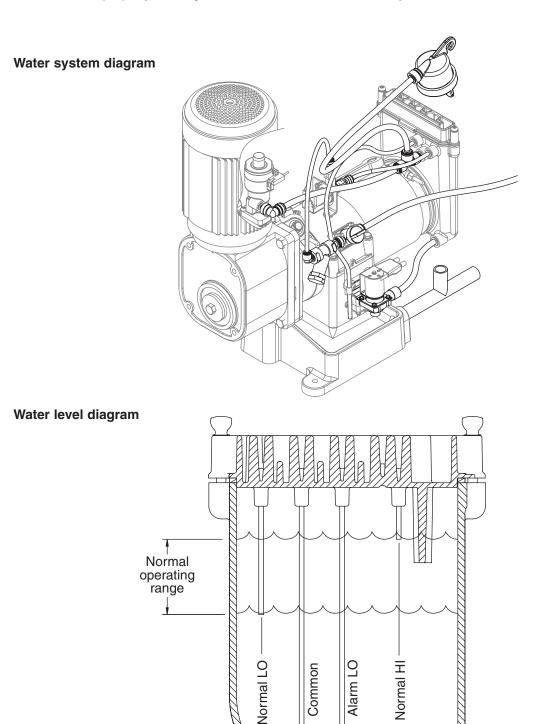


Water system

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

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

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



Electrical systemNormal control board operation

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 green light labeled POWER indicates power to the machine. A flashing green light labeled CPU is normal and indicates that the Central Processing Unit "heart beat" is working. All other normal operation status indicators are covered as follows:

Ice machine disposition		Ор	erating conditions
Leç	gend: ● ON ○ OFF ● ON or OFF ◆ FLASHING		
1.	Ice machine is making ice.	1.	Normal running.
	● CPU ○ LO WATER ○ HI WATER ○ DRAIN CLOG ○ HI AMPS ○ SERVICE ○ PURGE ○ CLEANING ○ TIME DELAY ● REFRIG ON ● AUGER ON ● LOW BIN		
2.	Ce CPU I LO WATER H WATER DRAIN CLOG H AMPS SERVICE CLEANING TIME DELAY REFRIG ON AUGER ON DOWER	2.	Normal time delay. When the bin fills with ice, the LOW BIN light goes out 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.	Ce Lo water H WATER DRAIN CLOG H WATER DRAIN CLOG H AMPS SERVICE PURGE CLEANING TIME DELAY AUGER ON AUGER ON POWER	3.	Normal purge indicator. After a selected period of ice making time has elapsed (1 or 2 hours), the ice machine will automatically self-flush. The compressor will shut down but the fan and gearmotor will continue to run. After the flush is complete the machine will refill and start without a time delay.

Test points:

The Horizon PC board incorporates on-board test points that can be used to determine various electrical outputs. The test point holes allow a standard probe to be inserted for quick voltage measurement. For 208-230 systems, use TP-4 (L2) as the common for testing outputs for solenoids, motors, etc.

Error faults:

The Horizon PC board monitors various operating parameters including high pressure, auger gearmotor amperage limits, clogged drain, and high and low water alarm conditions. There are two types of errors namely "hard" or "soft". A hard error is one that shuts the machine off and will not allow restart until the reset button is pressed. Even cycling power will not reset a hard error. A soft error can either be automatically reset should the condition rectify, or if power is cycled. Should an error occur, consult the troubleshooting guide in this manual or a Follett service technician. **Note:** there are two types of LO WATER and HI AMPS errors as listed below.

Soft errors:

HI AMPS: The PC board monitors the amperage of the auger motor. Should the gear motor experience current draw above the 3.8 amps limit the machine will shut down and the TIME DELAY, HI AMP, and SERVICE LED's will be illuminated. After the time delay the machine will restart and the TIME DELAY, HI AMP, and SERVICE LED's 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 120 seconds, a soft error will occur. The machine will shut down, but the water feed solenoid will remain energized. Should water return, it will fill to the normal low sensor and the machine will resume normal operation. The error will clear automatically.

DRAIN CLOG: The drain clog sensor, located in the plastic drain pan behind the drain solenoid, will detect the presence of water just below the top edge of the pan. If water does not properly flow out of the drain pan it will rise to the sensor, especially during a self-flushing purge cycle.

Hard error:

HI AMPS:

- "Two strikes" feature. If the gearmotor has a second HI AMP occurrence during the countdown period (6 hours after a HI AMP time delay) a hard error will occur and the HI AMP and SERVICE LED's will be illuminated.
- 2. No current. To prevent the refrigeration system from running without gearmotor rotation the PC board will indicate HIGH AMP and SERVICE if the drive relay is energized and there is no current draw.

HI PRESSURE: Should the refrigeration pressure rise above 425 psi, a hard error will occur. Even if pressure fall-back below the reset point of 295 psi, the error will not clear and the machine will not restart.

LO WATER:

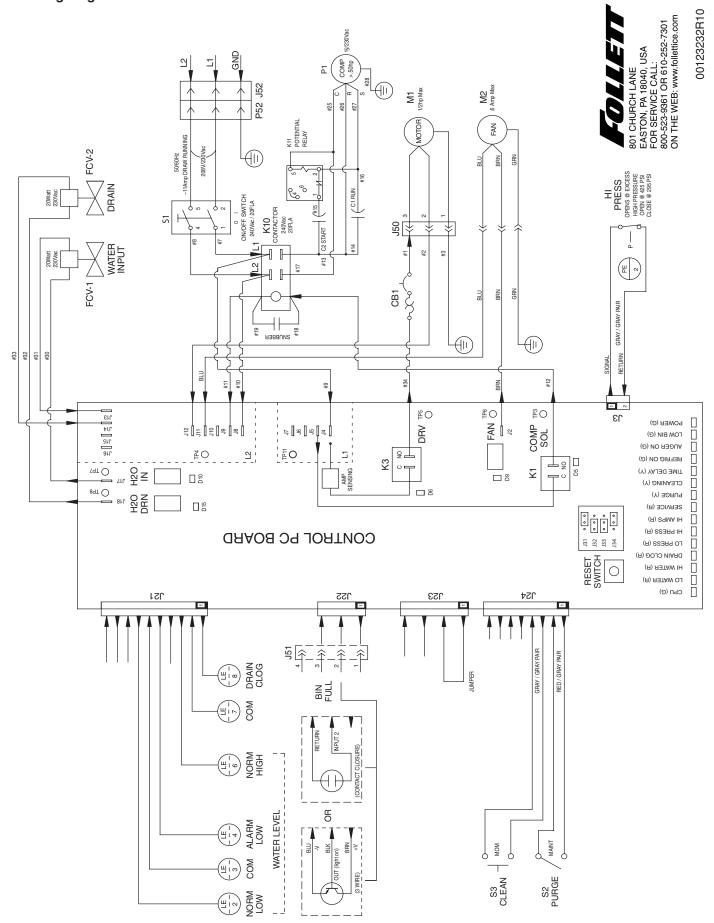
- 1. There is a sensor in the water reservoir that reaches down to the very bottom. The machine will not start if water is not present at this sensor.
- 2. A hard error will occur should water not be present within 60 seconds of power up or if the sensors are disconnected or damaged.

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.

Comp/Sol output:

The output for the compressor is labeled COMP/SOL.



Compressor data					
Compressor current of Air-cooled	draw at 230 VAC				
Ambient air temp.	60°F/16°C	70°F/21°C	80°F/27°C	90°F/32°C	100°F/38°C
	7.1	7.5	7.8	7.8	8.1
Water-cooled					
Condenser water temp	50°F/10°C	60°F/16°C	70°F/21°C	80°F/27°C	90°F/32°C
•	7.0	7.0	7.4	6.7	8.0
Locked rotor amps	54				

Gearmotor data			
Gearmotor current	Brother 2.8A (nominal)		
Locked rotor amps	15 amps		

Resistance of windings	
208-230 vac gearmotor (Brother)	6.2Ω
Compressor start winding	3.0Ω
Compressor run winding	1.4Ω
Fan motor	38Ω

Mechanical system

Evaporator disassembly

- 1. Press PURGE button to purge evaporator, and then turn power OFF.
- 2. Unscrew and remove stream divider as shown.

3. Unplug and remove gearmotor as shown.

4. Remove all traces of petrol-gel from the auger shaft.

- 5. Unscrew and disconnect transport tube from louvered docking assembly.
- 6. Unplug sensor at the electrical box.
- 7. Remove vent tube from shuttle housing as shown.

Fig. 13

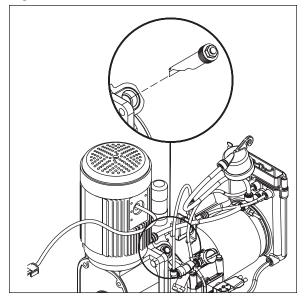


Fig. 14

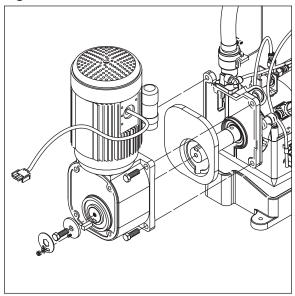
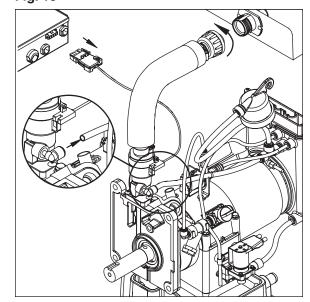


Fig. 15



- 8. Loosen nut on V-band clamp and remove.
- 9. Remove V-band clamp from front of evaporator.
- 10. Remove main housing as shown.

11. Remove and discard mating ring and seal.

12. Carefully remove auger.

Fig. 16

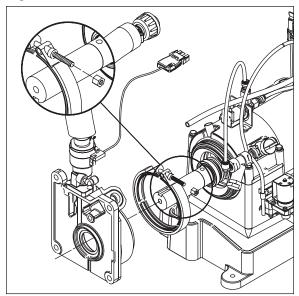
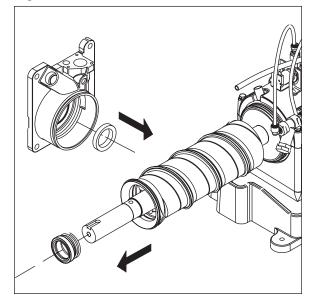


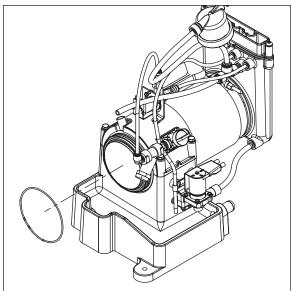
Fig. 17



Evaporator reassembly

- 1. Remove and inspect O ring seal. Discard if damaged in any way.
- 2. Clean O ring groove. Lubricate O ring and reinstall.

Fig. 18

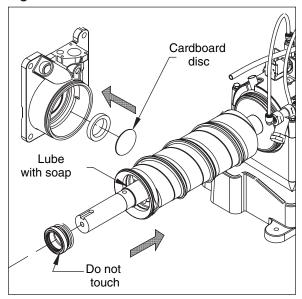


3. Press new mating ring into main housing as shown.

4. Lube the shaft with liquid soap in the area shown and slip on seal and spring.

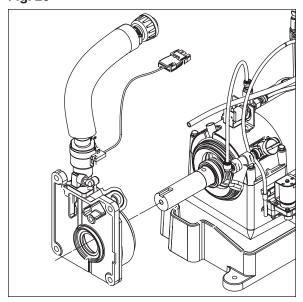
Note: Do not touch the sealing surfaces. Use cardboard disk to install.

Fig. 19



5. Reinstall main housing as shown.

Fig. 20



- 6. Orient auger shaft with keyway in the upward position.
- Force main housing into position against evaporator and place 1/4" (7mm) diameter Phillips screwdriver into hole in the auger shaft.
- 8. Replace V-band clamp as shown.
- 9. Replace nut on V-band clamp and tighten.
- 10. Remove screwdriver.

- 11. Reconnect transport tube to louvered docking assembly.
- 12. Plug sensor in at the electrical box.
- 13. Reconnect vent tube to the shuttle housing as shown.

- 14. Apply a light coat of petrol-gel compound to the auger shaft.
- Install gearmotor, making sure that insulation is properly seated between gearmotor and main housing as shown.
- 16. Firmly tighten four gearmotor bolts in place.

Fig. 21

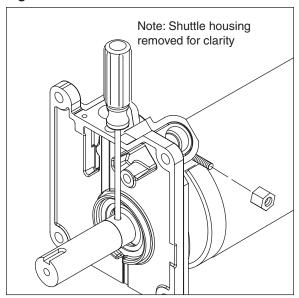


Fig. 22

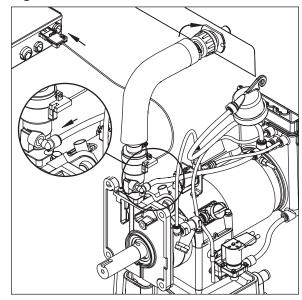
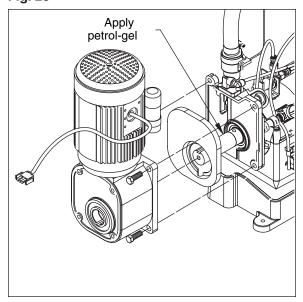


Fig. 23



- 17. Insert a bolt into the auger shaft and finger tighten.
- 18. Using a wrench, rotate the shaft clockwise to align the keyways in the gear housing and the shaft so as to accept the key.
- 19. Insert the key into the keyway.

20. Remove bolt and reinstall the washer and bolt. Place retainer over bolt and secure with nut and washer.

- 21. Lubricate body of stream diverter with petrol-gel and reinstall.
- 22. Plug gearmotor power cord into electrical box.

Fig. 24

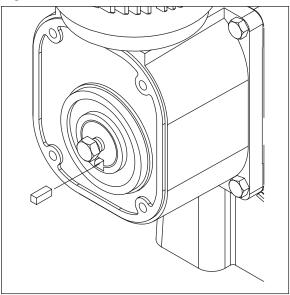


Fig. 25

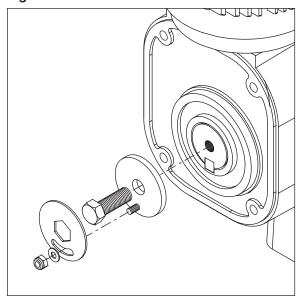
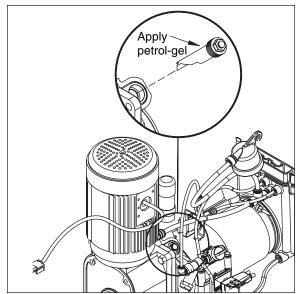


Fig. 26



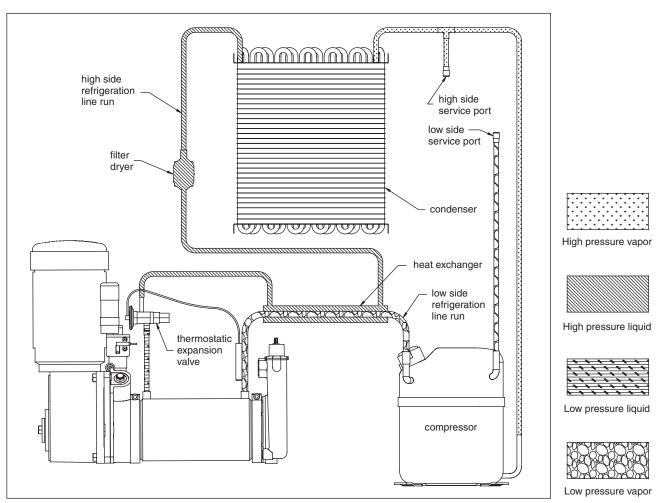
Refrigeration system

Refrigerant pressure data

			Air temperature		
Air-cooled condensers	60°F/16°C	70°F/21°C	80°F/27°C	90°F/32°C	100°F/38°C
Pressure (psig)					
discharge/suction	218/31	241/33	277/35	313/38	349/41
	1503/213kPa	1661/234kPa	1909/241Kpa	2158/262kPa	2406/282kPa
	15.03/2.13bar	16.61/2.34bar	19.58/2.41bar	21.58/2.62bar	24.06/2.82bar
		W	/ater temperatur	е	
Water-cooled condensers	60°F/16°C	70°F/21°C	80°F/27°C	90°F/32°C	100°F/38°C
Pressure (psig)					
discharge/suction	279/33	225/33	231/33	232/34	236/40
· ·	1923/227kPa	1551/234kPa	1592/227kPa	1599/234kPa	1627/275kPa
	18.96/2.27bar	15.51/2.34bar	15.92/2.27bar	15.99/2.34bar	16.27/2.75bar

Note: The water control valve is factory set to maintain 275 \pm 15 psi discharge pressure @ 70°F water.

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 icemaker to other than factory specifications will void the warranty.

R404A icemaker charge specifications					
Model	Charge	Refrigerant type			
HCE1000A (air-cooled)	24oz (652g)	R404A			
HCE1000W (water-cooled)	15oz (426g)	R404A			

Refrigerant replacement requirements

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

Evacuation

Evacuate the system to a level of 500 microns. When the 500 micron level is reached, close 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 ¹	50°F/10°C	100°F/37.8°C	
Water temperature ²	45°F/7°C	90°F/32.2°C	
- 1 A 1. 1 1 1 1 1 1 1 1	and the state of t	Allega and a self-field at the field of the	

¹Ambient air temperature is measured at the air-cooled condenser coil inlet.

Ice capacity test

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

- 1. Replace all panels on icemaker.
- 2. Run icemaker 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:

1440 min. x wt. of ice produced		5
	=	Production capacity/24 hr. period
Total test time in minutes		

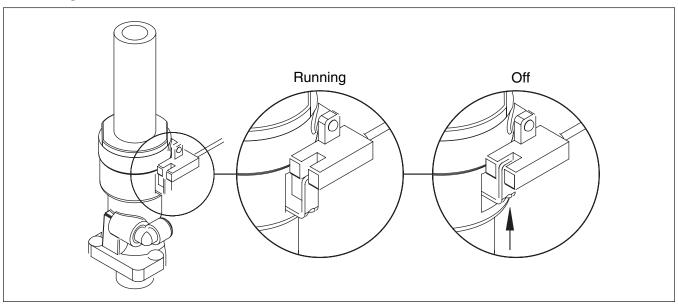
Calculated amount per 24 hours should be checked against rated capacity for same ambient and water temperatures in Ice Production Tables.

²Ambient water temperature is measured in the icemaker water reservoir.

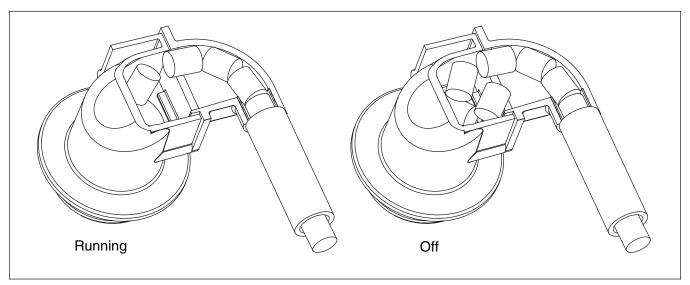
"Bin full" detection system

The Follett Horizon icemaker incorporates a unique "bin full" detection system that consists of the shuttle and actuator. The shuttle incorporates a flag and sensor. Referencing the figure below, the normal running position of the flag is down, out of the sensor. When the bin fills to the top and ice can no longer move through the tube, the machine will force the shuttle flag up into the sensor, 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

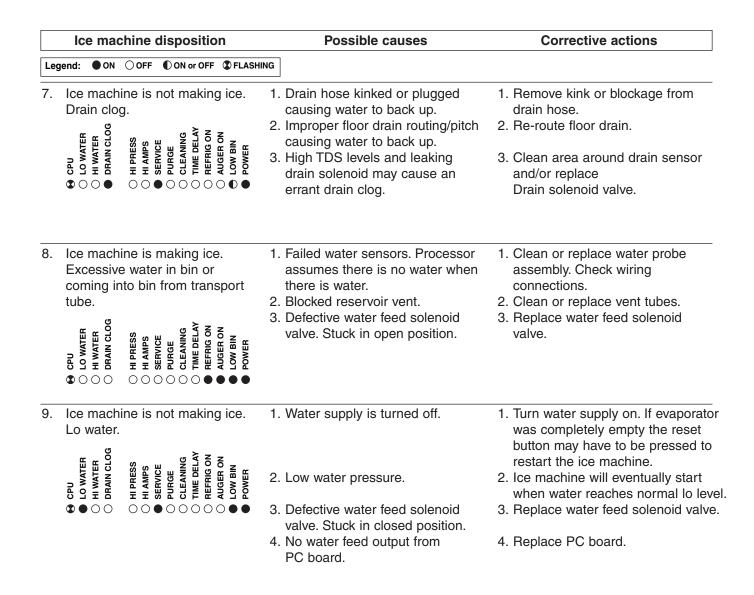


Shuttle actuator



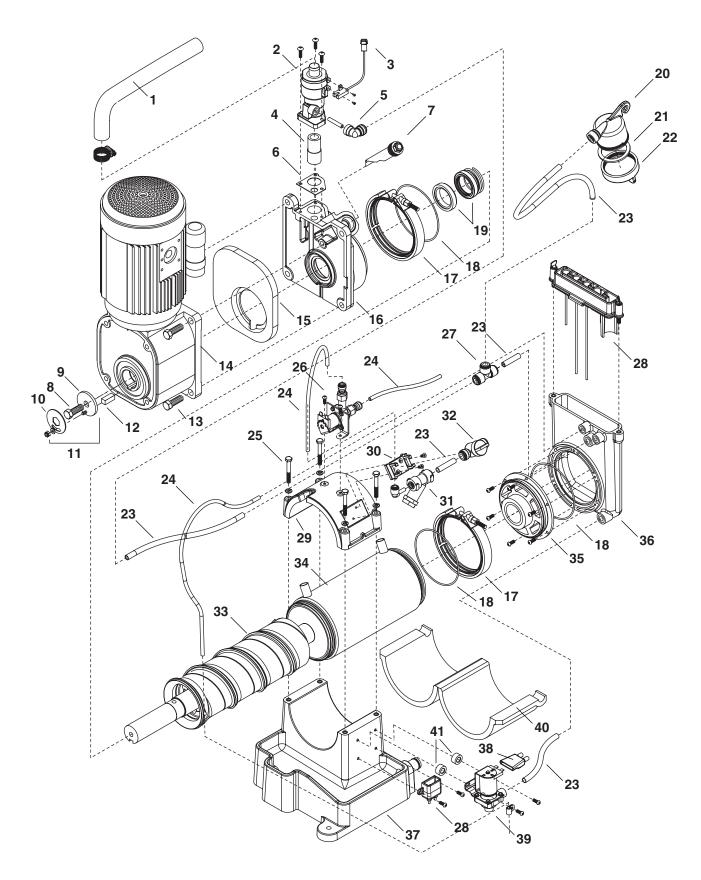
TroubleshootingPlease see "Service" section for a description of each function.

Ice	machine disposition	Possible causes	Corrective actions
Legend:	ON OFF ON or OFF TLASHIN	IG	
condi	DAUGER ON A AUGER ON BIN POWER	Defective compressor. Defective start relay. Defective start capacitor. Defective run capacitor. Defective main contactor. No output from PC board. Processor has been damaged.	 Replace compressor. Replace start relay. Replace start capacitor. Replace run capacitor. Replace main contactor. Replace PC board.
witho	ine in TIME DELAY ut full bin.	 Ice jamming due to improperly installed transport tube causing a false shuttle. Shuttle stuck in up position. Damaged or improperly installed 	Correct transport tube routing. Repair or replace shuttle mechanism. Replace or reposition thermostat.
C C C		thermostat (open). 4. Transport tube backed-out of coupling.	4. Correct coupling installation.
CPU LO WATER HI WATER	achine is not making ice. ed in PURGE. PURGE CIEANING TIME DELAY AUGER ON O AUGER ON O OWER O OWER	 A self-flush occurred but could not drain evaporator due to a failed drain solenoid valve. A self-flush occurred but could not drain evaporator due to water reservoir or ice machine not being level. 	 Replace drain solenoid valve. Level ice machine. Check water reservoir to make sure it is not tilted towards the compressor.
HI AN	H PRESS H H AMPS SERVICE CLEANING TIME DELAY REFRIG ON AUGER ON LOW BIN	 Poor water quality causing ice to jam auger. Damaged shuttle mechanism or thermostat (closed). Kinked transport tube (thermostat systems). Intermittent drive output from PC board. Evaporator will freeze causing a hi amps error. Gearmotor is unplugged. 	 Clean ice machine. Increase flushing frequency. Replace or repair shuttle mechanism/ thermostat. Straighten transport tube. Replace PC board. Plug in gearmotor. (see page 15 for "no current" details)
HI PF	HI PRESS HI AMPS SERVICE PURGE CLEANING TIME DELA AUGER ON AUGER ON POWER	 High ambient temperatures >100°F (38°C). Poor ventilation or air recirculation. Clogged condenser. Fan not working properly. No air flow. Blocked fan blades No fan output from PC board Faulty fan motor 	 Air condition area to below 100°F (38°C). Reposition ice machine or properly ventilate. Prevent ice machine exhaus from recirculating. Clean condenser grille. Correct air flow. Remove any blockage from fan blad Replace PC board Replace fan motor

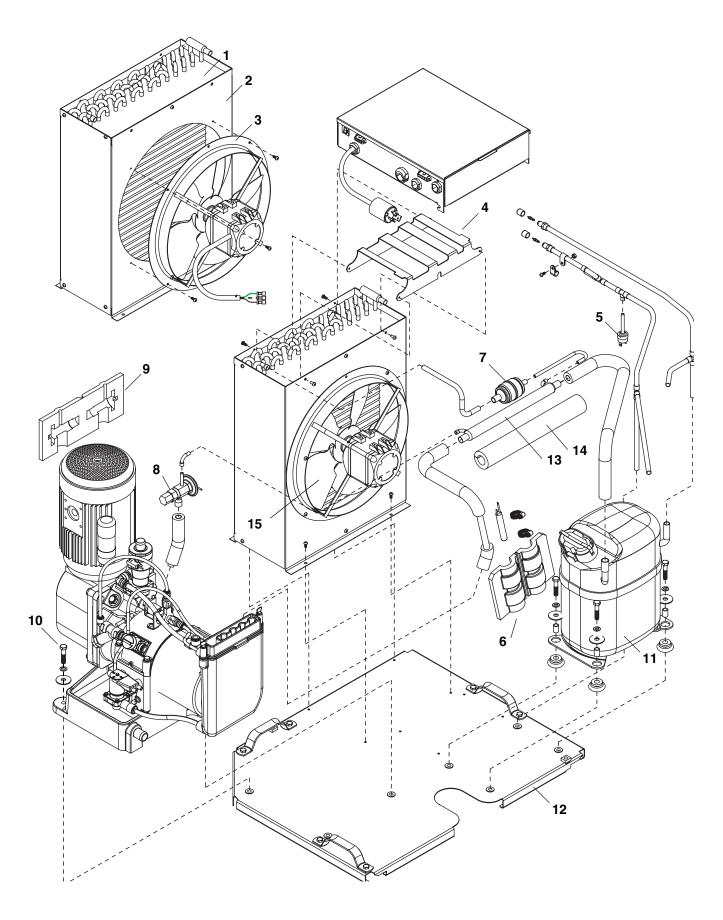


Replacement parts

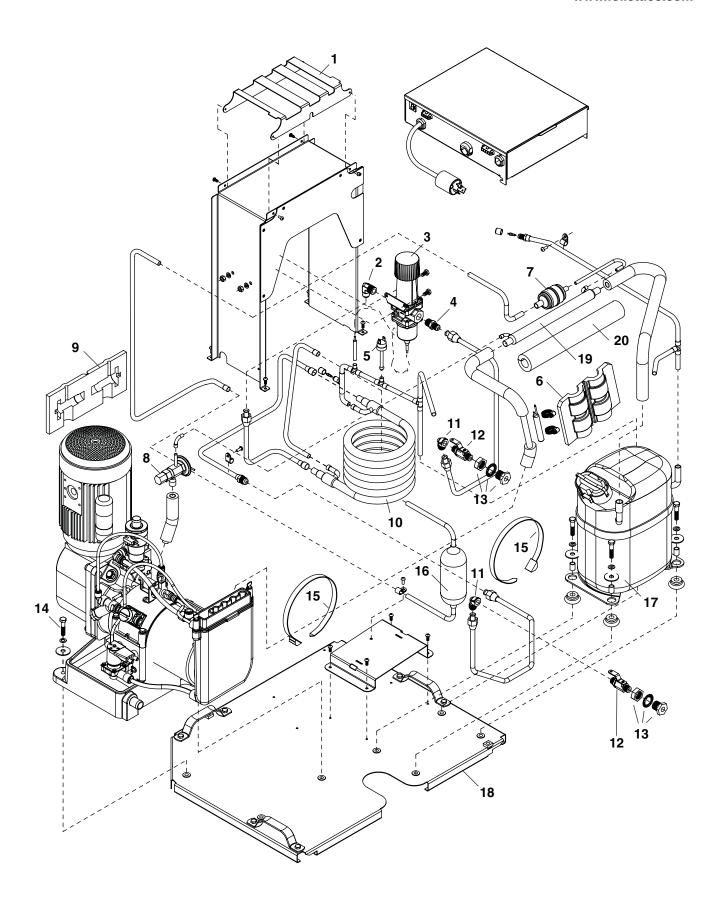
Evaporator assembly



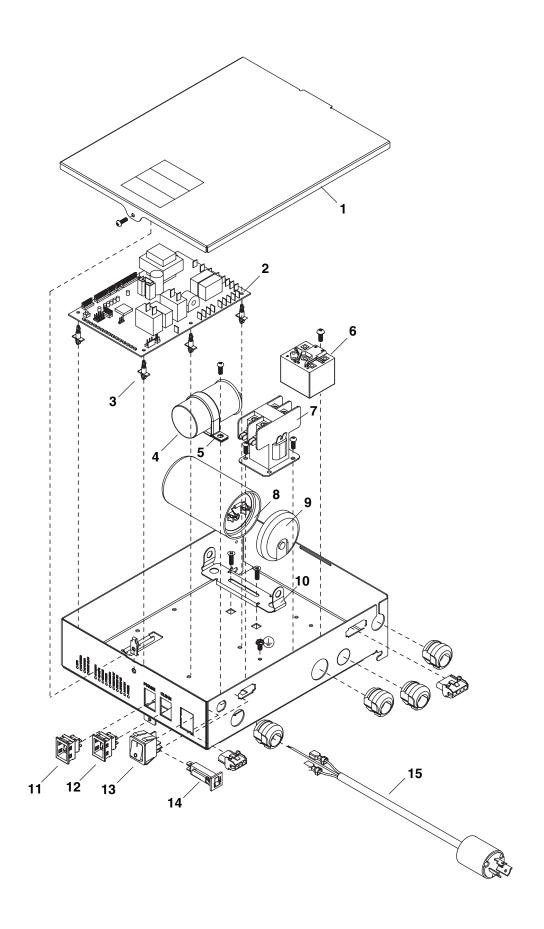
Reference #	Description	Part #
1	Tube, ice transport, molded	00130666
2	Shuttle assembly (includes 00115600 & 0013066)	00130815
3	Switch, optical	00130849
4	Compression nozzle	00115774
5	Elbow, water	00134502
6	Gasket, shuttle	00115600
7	Stream divider	00142513
8	Auger bolt	00116988
9	Washer	00161513
10	Retainer, auger bolt	00161366
11	Kit, auger bolt (auger bolt, washer, retainer, nut and washer)	00161406
12	Key	00117804
13	Bolts, gearmotor mounting (4)	00130641
14	Gearmotor, 240V (includes capacitor)	00130807
15	Gasket, gearmotor	00121632
16	Main housing (includes 00112946 & 00116962)	00142539
17	Coupling, V-band	00130708
18	O ring	00116962
19	Seal, auger shaft	00112946
20	Cup, sanitizer	00130674
21	Gasket, sanitizer	00124032
22	Cap, sanitizer (includes 00124032)	00130880
23	Tubing, water, 3/8" OD	502719
24	Tubing, water, 1/4" OD	502079
25	Hardware, mounting, evaporator cap	00130989
26	Solenoid, water feed (240V)	00130831
27	Tee, water	00134494
28	Sensor assembly, water level and drain clog	00171363
29	Cap, evaporator (includes 00125468 & 00130989)	00130740
30	Clip, water shut-off valve	502922
31	Strainer, water	502920
32	Valve, shut-off, water	502921
33	Auger (includes 00112946 & 00116962)	00147249
34	Evaporator (includes 00112946, (2) 00116962 & 0012116)	00130724
35	Journal housing and bearing (includes (2) 00116962)	00130716
36	Reservoir, water	00130690
37	Base, evaporator	00130732
38	Boot, solenoid	00160309
39	Solenoid, purge (240V)	00130765
40	Insulation, evaporator	00121616
41	Spacers, solenoid	00160317
Not shown	Insulation, evaporator cap	00125468



Reference #	Description	Part #
1	Condenser (includes 00130922)	00130914
2	Shroud, condenser	00130922
3	Fan motor assembly	00130930
4	Electrical box support	00156035
5	Cut-out, high pressure safety	00117077
6	Insulation, bulb, TXV	00106534
7	Drier	502724
8	Valve, expansion, thermal (includes 502830 and 00106534)	00130997
9	Insulation, TXV	502830
10	Hardware, evaporator mounting base (set of four)	00130971
11	Compressor	00121582
12	Base, icemaker	00130856
13	Heat exchanger (includes 00172361)	00172353
14	Heat exchanger insulation	00172361
15	Fan blade	00170290

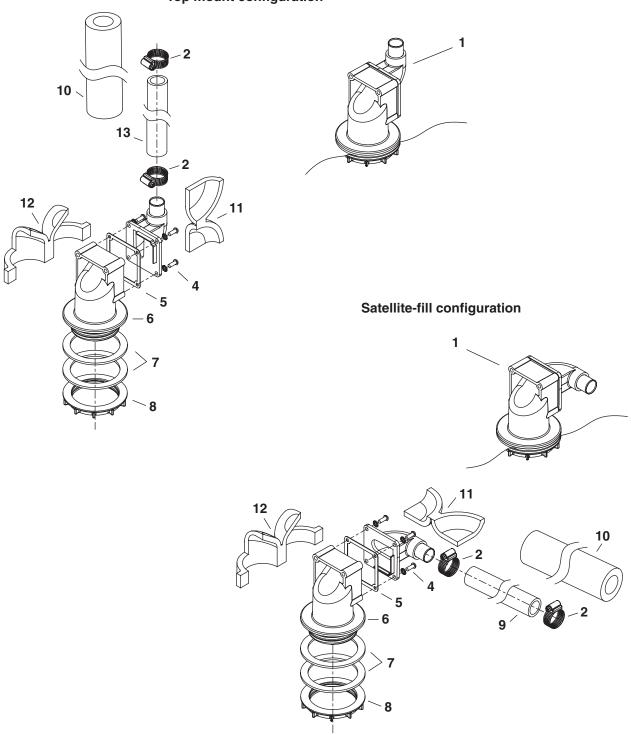


Reference #	Description	Part #
1	Electrical box support	00156035
2	Elbow, water	00129486
3	Valve, water regulating	00131052
4	Union, water	202148
5	Cut-out, high pressure safety	00117077
6	Insulation, bulb, TXV	00106534
7	Drier	502724
8	Valve, expansion, thermal (includes 502830 and 00106534)	00130997
9	Insulation, TXV	502830
10	Condenser, w/c	00117234
11	Elbow, water, 90°	00129478
12	Valve, shut-off, water	502222
13	Coupling	206411
14	Hardware, evaporator mounting base	00130971
15	Ty-rap	204584
16	Receiver	00123109
17	Compressor	00121582
18	Base, icemaker	00130856
19	Heat exchanger (includes 00172361)	00172353
20	Heat exchanger insulation	00172361

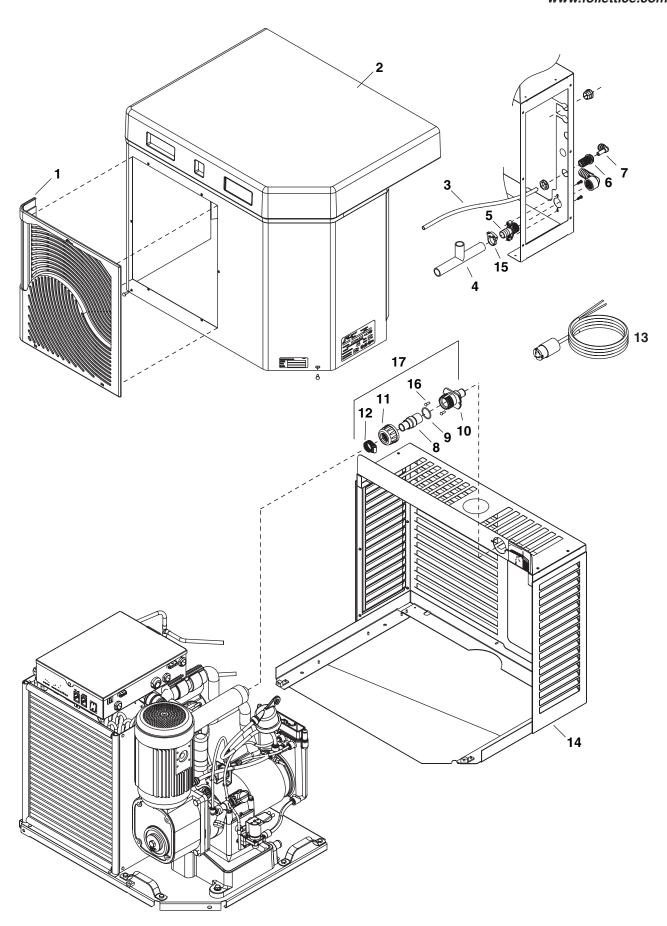


Reference #	Description	Part #
1	Cover, electrical box, air/water-cooled	00130872
2	Board, control circuit, 240V (includes 00130906)	00132902
3	Stand off's (set of 6)	00130906
4	Capacitor, compressor run	00121814
5	Clamp, run capacitor	00117044
6	Relay, compressor starting	00141648
7	Contactor	00117010
8	Capacitor, compressor starting	00141663
9	Cap, capacitor	00123216
10	Bracket, capacitor	207625
11	Switch, evaporator purge	00114371
12	Switch, evaporator clean	00117036
13	Switch, icemaker power	208867
14	Circuit breaker, 4 amp	00126912
15	Power lead, 240V	00163923

Top mount configuration



Reference #	Description	Part #
1	Shuttle actuator	00171322
2	Clamp	500377
3	Actuator elbow (includes 00167122 and 209100)	00171264
4	Screws	209100
5	Gasket	00167122
6	Actuator body	00171272
7	Gasket, coupling	00126532
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
11	Insulation, elbow	00168922
12	Insulation, actuator	00168930
13	Ice transport tube, top mount, 30" (762mm)	00171306
Not shown	Integration kit, top mount	00171389
Not shown	Integration kit, Satellite-fill (requires transport tube)	00171397
Not shown	Extension-fill tube, 9"	00135723
Not shown	Extension-fill tube, 4"	00153684
Not shown	Follett SafeCLEAN ice machine cleaner (case of 24 x 7oz packets)	00132001
Not shown	Sani-spong kit	00132068



Reference #	Description	Part #
1	Grille, intake	00122846
2	Front cover, air- & water-cooled (includes 00122846)	00130625
3	Tubing, water, 1/4" OD	502079
4	Tubing, drain	00144923
5	Fitting, drain	00109728
6	Fitting, water inlet	502924
7	Elbow, water inlet	502925
8	Coupling (includes 00144675)	00171207
9	O ring	00144675
10	Bulkhead fitting	00171215
11	Nut	00145342
12	Hose clamp	500377
13	Power cord, 240V	00134445
14	Louvered docking assembly (includes 0123182)	00130658
15	Clamp, drain line	00114520
16	Screws	208568
17	Bulkhead connector kit	0017223
Not shown	Gasket, intake	00135574
Not Shown	Louver, intake/exhaust (13.75"x17.75")	00128066

