U300/UD300 Series
Ice and Beverage Dispensers

Installation, Operation and Service Manual
Service numbers above B22205

U300 series – Single-sided dispensers
Model U300
Model U300B
Model U300R400A/W
Model U300BR400A/W
Model U300R800A/W
Model U300BR800A/W

UD300 series – Dual-sided dispensers
Model UD300
Model UD300R400A/W
Model UD300R800A/W

Following installation, please forward this manual to the appropriate operations person.
## Table of contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Welcome to Follett Corporation</td>
<td>4</td>
</tr>
<tr>
<td>Important cautions</td>
<td>4</td>
</tr>
<tr>
<td>Specifications</td>
<td>5</td>
</tr>
<tr>
<td>Installation</td>
<td>8</td>
</tr>
<tr>
<td>Installing dispenser in counter</td>
<td>8</td>
</tr>
<tr>
<td>Electrical connections</td>
<td>9</td>
</tr>
<tr>
<td>Field wiring diagrams</td>
<td>9</td>
</tr>
<tr>
<td>Connecting beverage lines</td>
<td>10</td>
</tr>
<tr>
<td>Installing optional icemaker</td>
<td>10</td>
</tr>
<tr>
<td>Operation</td>
<td>11</td>
</tr>
<tr>
<td>How the dispenser works</td>
<td>11</td>
</tr>
<tr>
<td>Cleaning</td>
<td>12</td>
</tr>
<tr>
<td>Service</td>
<td>14</td>
</tr>
<tr>
<td>Dispense chute cover removal</td>
<td>14</td>
</tr>
<tr>
<td>Auger motor assembly removal</td>
<td>14</td>
</tr>
<tr>
<td>Gate assembly removal</td>
<td>14</td>
</tr>
<tr>
<td>Auger and auger tube removal</td>
<td>14</td>
</tr>
<tr>
<td>Dispenser wheel removal</td>
<td>14</td>
</tr>
<tr>
<td>Wiring diagrams</td>
<td>15</td>
</tr>
<tr>
<td>Troubleshooting</td>
<td>17</td>
</tr>
<tr>
<td>Replacement parts</td>
<td>19</td>
</tr>
</tbody>
</table>

### 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.
3. Follett receives the equipment at the factory in Easton, PA within 30 days of the issue of the return authorization number.
4. 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.

**Note:** 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.

**Note:** 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.
Welcome to Follett

Follett ice dispensers enjoy a well-deserved reputation for excellent performance, long-term reliability and outstanding after-the-sale support. To ensure that this dispenser delivers that same degree of service, we ask that you take a moment to review this manual before beginning the installation of the dispenser. Should you have any questions or require technical help at any point, please call our technical service group, (800) 523-9361 or (888) 2-FOLLETT 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 ice dispensing equipment. Following is an explanation of the different model numbers in the U300 series.

U300BR400A

- Condenser type – A = air-cooled, W = water-cooled
- Remote icemaker(s) capacity and refrigerant – 400 = 400 lbs (181kg)/day, R404A
  800 = 800 lbs (363kg)/day, R404A
  absence of = manual fill unit
- B = beverage bath equipped. Absence of a B = no integral beverage cooling
- Approximate manual load storage capacity in lbs
- Dispenser configuration – U = undercounter, UD = undercounter dual-sided

Important cautions

Storage area of dispenser contains mechanical, moving parts. Keep hands and arms clear of this area at all times. If access to this area is required, power to unit must be disconnected first.

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.

Always disconnect power before cleaning or servicing the dispenser.

Failure to remove all sanitizer may result in health hazard.

Follett manual load dispensers can accommodate most cube/cubelet ices up to 1” square, or Follett compressed nugget ice. Crushed, flake, bagged, nugget or congealed ice cannot be used. Use of these ices can jam dispenser and void warranty. Separate any “waffle-like” sections of cubes before adding to dispenser. For ice compatibility questions, please call Follett customer service at (800) 523-9361 or (888) 2-FOLLETT or (610) 252-7301.
Specifications

Electrical

Each icemaker and dispenser require a separate circuit with electrical disconnect within 10 ft (6m). Equipment ground required. Standard electrical – 115V, 60Hz, 1 phase. Maximum dispenser fuse – 20 amps, maximum icemaker fuse – 20 amps each.

<table>
<thead>
<tr>
<th>Model number</th>
<th>Icemaker amperage</th>
<th>Dispenser amperage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single-sided models</td>
<td></td>
<td></td>
</tr>
<tr>
<td>U300</td>
<td>6.0 amps</td>
<td></td>
</tr>
<tr>
<td>U300B</td>
<td>7.0 amps</td>
<td></td>
</tr>
<tr>
<td>U300BR400A/W</td>
<td>11.0 amps</td>
<td>6.0 amps</td>
</tr>
<tr>
<td>U300BR400A/W</td>
<td>11.0 amps</td>
<td>7.0 amps</td>
</tr>
<tr>
<td>U300R800A/W</td>
<td>11.0 amps ea (2)</td>
<td>6.0 amps</td>
</tr>
<tr>
<td>U300BR800A/W</td>
<td>11.0 amps ea (2)</td>
<td>7.0 amps</td>
</tr>
<tr>
<td>Dual-sided models</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UD300</td>
<td>11.0 amps</td>
<td>8.0 amps</td>
</tr>
<tr>
<td>UD300R400A/W</td>
<td>11.0 amps</td>
<td>8.0 amps</td>
</tr>
<tr>
<td>UD300R800A/W</td>
<td>11.0 amps ea (2)</td>
<td>8.0 amps</td>
</tr>
</tbody>
</table>

Plumbing

Dispenser

1" PVC slip joint for bin drain
1" PVC slip joint for beverage drain pan
1" PVC slip joint for beverage bath drain

Beverage connections

1/4" ID syrup beverage hose
3/8" ID carbonated water beverage hose
3/8" ID plain water beverage hose

Note: Drains should be hard piped and insulated. Maintain at least 1/4" per foot (6mm per 304mm run) slope on drain line run.

Water disconnect within 10 feet (3m) of dispenser is suggested for automatic load units.

Follett recommends use of a Follett model AFSYSTMFL4S water filter on icemakers connected to automatic fill dispensers.

Icemaker (detailed specifications may be found in icemaker installation manual packed with icemaker)

1/4" FPT water in
3/4" MPT drain
3/8" FPT condenser inlet (water-cooled condenser only)
1/2" FPT condenser drain (water-cooled condenser only)
Dimensions and clearances
U300 series single-sided dispensers

Required clearances
60" (1524mm) minimum above counter for installation if dispenser will be dropped into counter
49" (1245mm) minimum above counter for auger removal
12" (305mm) minimum on ice chute side for service
12" (305mm) minimum on side opposite ice chute if ice transport tube enters this side
12" (305mm) minimum between dispenser side(s) and optional icemaker(s)
UD300 series dual-sided dispensers

Required clearances
60" (1524mm) above counter for installation if dispenser will be dropped into counter
49" (1245mm) above counter for all units after installation for auger cleaning and servicing
12" (305mm) on dispense chute side of all models for connections
12" (305mm) on side opposite dispense chute if ice transport tube enters side opposite chute
12" (305mm) on side opposite dispense chute on all dual-sided dispensers for connections

Front View

Ice dispense chute side view

Ice dispense chute opposite side view
Installation

Installing dispenser in counter

Note: All dispensers must be supported from below with supplied 6" - 9" (153 – 229mm) adjustable leg accessory, or equivalent. Do not hang dispenser on flange. All dispensers must be installed level in both directions to ensure proper operation. If dispenser is to be installed in a 34" (864mm) high counter for ADA compliance, a .9" (23mm) stainless steel collar accessory must be installed between dispenser and counter to provide necessary clearance. Standard 36" (915mm) counters do not require this accessory piece.

1. Check that dispenser location meets all requirements in this manual and cut counter as shown.

2. If required, install ADA collar accessory by centering collar on opening.
3. Place support blocks in cabinet to raise dispenser to a height of 12" (305mm).
4. Place dispenser in counter onto support blocks.
5. Attach adjustable legs to dispenser.
6. Remove support blocks and lower dispenser feet to floor.
7. Adjust legs for 1/8" (4mm) clearance between dispenser lip and countertop to verify there is no load on flange.
8. Apply a bead approximately 1/4" (6mm) in diameter of NSF-listed silicone sealant (Dow Corning RTV-732 or equivalent) around perimeter of dispenser where it meets counter. Smooth sealant to a 1/8" (4mm) radius.
9. Install a PVC drain line with at least a 1/4" per foot (20mm per 1m) slope. Insulate drain line to prevent condensation.

Note: Do not apply excessive heat if any sweating of fittings is necessary. Heat conduction through metal may melt threads in plastic drain. Do not reduce drain line size or tie drains together.
10. Make electrical connections in accordance with applicable wiring diagrams provided. Provide disconnects within 10 ft (3m) of dispenser and icemaker for servicing.
## Electrical connections

<table>
<thead>
<tr>
<th>Model</th>
<th>Electrical connection</th>
<th>Circuit(s) required</th>
</tr>
</thead>
<tbody>
<tr>
<td>U300, U300B, UD300</td>
<td>Hard wiring of dispenser required</td>
<td>115V, 60Hz, 1 phase</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Max. fuse dispenser – 20 amps</td>
</tr>
<tr>
<td>U300R400A/W, U300BR400A/W,</td>
<td>Dispenser power – hard wiring required</td>
<td>115V, 60Hz, 1 phase</td>
</tr>
<tr>
<td>UD300R400A/W</td>
<td></td>
<td>(2) circuits required</td>
</tr>
<tr>
<td></td>
<td>Bin signal – cord and plug supplied</td>
<td>Dispenser – 20 amps max. fuse size</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Icemaker – 20 amps max. fuse size</td>
</tr>
<tr>
<td></td>
<td>Icemaker – cord and plug supplied on power</td>
<td></td>
</tr>
<tr>
<td></td>
<td>and bin signal</td>
<td></td>
</tr>
<tr>
<td>U300R800A/W, U300BR800A/W,</td>
<td>Dispenser power – hard wiring required</td>
<td>115V, 60Hz, 1 phase</td>
</tr>
<tr>
<td>UD300R800A/W</td>
<td></td>
<td>(3) circuits required</td>
</tr>
<tr>
<td></td>
<td>Bin signal – cord and plug supplied</td>
<td>Dispenser – 20 amps max. fuse size</td>
</tr>
<tr>
<td></td>
<td>Icemaker – cord and plug supplied on power</td>
<td></td>
</tr>
<tr>
<td></td>
<td>and bin signal</td>
<td></td>
</tr>
</tbody>
</table>

### Field wiring diagrams

**Note:** Field wiring diagrams are intended to aid electricians or technicians in understanding how equipment works. All field wiring must be installed in accordance with all local and NEC codes.

#### Manual load models

![Field wiring diagram for manual load models](image1)

#### Automatic load models

![Field wiring diagram for automatic load models](image2)
Connecting beverage lines
1. Connect syrup and water lines. Non-carbonated water line will be labeled “water”. Syrup lines are numbered and correspond to the valves as shown in drawing(s) below. Valve one is always next to ice tower.
2. Clean and sanitize beverage lines in accordance with cleaning instructions.

Valve position #1 is always next to ice tower. Right-hand unit shown.

Installing optional icemaker
Correct installation of remote icemaker(s) is critical to proper performance of icemaker. Refer to installation manual packed with icemaker for important details on ice transport tube run, ventilation requirements and other installation requirements. Failure to comply with instructions may void warranty.

To start up and operate dispenser
1. Follow detailed cleaning instructions in service manual before operating dispenser.
2. On units with Follett integral ice water bath beverage cooling (“B” models) only, slowly pour water into ice waterbath area to fill empty bath and submerge coils. Coils are submerged when water starts to flow out overflow drain. DO NOT SPLASH WATER ON ELECTRICAL BOX. Once filled with water, add ice to bath until ice covers top of waterbath.
3. For manual load units, remove front drain pan or rear lid and fill storage area with approved ice.

Note: Follett manual load dispensers can accommodate most cube/cubelet ices up to 1” square, or Follett compressed nugget ice. Crushed, flake, bagged, nugget or congealed ice cannot be used. Use of these ices can jam dispenser and void warranty. Separate any “waffle-like” sections of cubes before adding to dispenser. For ice compatibility questions, please call Follett customer service at (800) 523-9361 or (888) 2-FOLLETT or (610) 252-7301.
4. Turn power switch located on dispenser control box to ON position.
5. For automatic fill units, follow detailed instructions in icemaker installation section of installation manual, then turn icemaker (bin signal) switch(es) located on dispenser control box to ON position and begin to make ice.
6. When dispenser has at least 6" (153mm) of ice in storage area, test operation.
Operation

How the dispenser works

Follett's dispensers are available in automatic load configurations, fed from one or two Follett remote icemakers or manual load configurations (using ice from another source).

In all models, ice is stored below the counter in the dispenser storage area. When the dispense lever or button is pushed, the dispense motors are activated. This causes the wheel assembly in the storage area to turn, moving ice to the vertical auger assembly, which carries ice up to the dispense chute where it drops by gravity into the container.

In automatic load units, ice is manufactured in either one or two Follett remote icemakers. These icemakers may be located up to 20 ft (6m) away from the dispenser. Extruded ice is transported through a tube and pushed to the storage compartment of the dispenser. When the bin is filled, a bin thermostat shuts the icemaker off to avoid overfilling the bin. The icemaker will restart after 20 minutes if the bin is calling for ice.

Units with integral ice water bath beverage cooling are equipped with a waterbath timer circuit that activates the water bath pump for 35 minutes when ice lever or button is activated, or when the ice water bath warms up and calls for more ice.

Ice movement
Cleaning

Using solutions below, clean and sanitize storage area and beverage lines before starting unit and on a routine basis as noted below.

Note: Always disconnect power before cleaning dispenser.
Do not run plastic parts through a dishwasher.

Solution A: Combine 1 oz (250ml) bleach with 2 gal (8L) hot water or use Ecolab Mikro-chlor Cleaner per manufacturers instructions.

Solution B: Combine 1/4 oz (50ml) bleach with 2 gal (8L) hot water or use Ecolab Mikro-chlor Cleaner per manufacturers instructions.

Note: Cleaning solutions temperature must be at 75˚ – 125˚F (24˚ to 52˚C)

Recommended cleaning prior to startup

Cleaning ice storage area before use
1. Refer to disassembly instructions (see Service section) and remove dispense wheel from ice storage area.
2. Remove auger, auger tube and dispense mechanism.
3. Wipe all components and ice storage area with cleaning Solution A.
4. Rinse all components and ice storage area thoroughly with clear, potable water.
5. Wipe all components and ice storage area with sanitizing Solution B.

Cleaning beverage lines
Prepare 6 gallons (23L) of cleaning Solution A. Fill a clean product tank with cleaning solution. Fill a second clean product tank with potable rinse water.
1. Disconnect all syrup lines from product containers.
2. Connect syrup line #1 to cleaning solution tank, pressurize tank to 20-50 psi, and dispense 1/2 gallon (2L) of solution into a suitable container from valve #1.
3. Connect syrup line #1 to rinse tank, pressurize tank to 20-50 psi, and dispense 3 gallons (11L) into a suitable container from valve #1.
4. Repeat this cleaning and rinsing for all syrup lines.
5. Remove diffusers and nozzles from valves, soak in cleaning solution, rinse well and reinstall.

Sanitizing beverage lines
Prepare 6 gallons (23L) of sanitizing Solution B. Fill a clean product tank with this solution.
1. Connect one tank to syrup line #1. Dispense 1/2 gallon (2L) from valve #1.
2. Repeat for all remaining syrup lines, allowing sanitizing solution to remain in all circuit lines for 15 minutes.
3. Connect a clean, empty tank (pressurized to 50 psi) to each syrup line and blow out sanitizer by operating each valve.
4. Remove diffusers and nozzles from valves, soak in sanitizing solution for 15 minutes, rinse well and reinstall.
5. Reconnect all lines and dispense product through valves to purge any remaining sanitizer.
**Recommended daily dispenser cleaning**
1. Remove all debris from drain pan.
2. Pour 1 gallon (4L) hot water into drain pan to keep drain lines clear.

**Recommended weekly dispenser cleaning**
1. Remove drain pan and grille and wash with Solution A. Rinse thoroughly.
2. Remove nozzles and diffusers from valves, soak for at least 10 minutes in cleaning Solution A, rinse, sanitize with Solution B and reinstall.
3. Pour a solution of one cup (8oz/237ml) household bleach mixed with one gallon (3.8L) hot water into drain pan to help prevent algae growth in drain lines.

**Recommended quarterly dispenser cleaning**
1. Remove top from dispenser and turn power switch to OFF position.
2. Remove ice from storage area.
3. Remove dispense chute cover, chute, auger motor assembly, auger and auger tube (see Service section).
4. Remove drain pan, grille, dispense wheel, agitator rods, and drive shaft (see Service section).
5. Clean all components and bin storage area with Solution A, rinse thoroughly with clear water and sanitize with Solution B.
6. Remove nozzles and diffusers from valves, soak for at least 10 minutes in cleaning Solution A, rinse, sanitize with Solution B and reinstall.

**For units with integral ice-water bath beverage cooling only:**
1. Remove side access panel next to ice tower with two upper screws and lift out.
2. Disengage service drain tube (on utility connection side of dispenser) from mounting bracket and drain ice water bath.
3. Use a bottle brush to clean coils with Solution A, rinse and sanitize with Solution B.
4. Reposition ice water bath drain line in up position so water does not drain out.
5. Pour Solution A into ice water bath until it flows out overflow drain.
6. Turn power ON to unit and dispense a small cup of ice to activate pump.
7. Allow pump to run for two minutes to clean pump and pump lines.
8. Turn power OFF.
9. Drain bath and replace drain tube in mounting bracket in up position to avoid siphoning water bath water.

**Putting unit back in service after quarterly cleaning**
1. On units with integral beverage cooling, fill ice water bath with water until water spills out of bath overflow drain.
2. Reassemble components.
3. For manual load units, fill unit with an approved ice (see important cautions on page 4).
4. For automatic load units with R400A/W (R404A refrigerant) icemakers, turn bin signal switch(es) and dispenser power switch to ON position and allow storage area to fill.
5. Push dispense button or lever to test that dispenser is functioning properly.

**Recommended quarterly cleaning of optional icemaker.**
Units equipped with optional icemakers require cleaning of icemaker system at least every three months, and more often if local water conditions dictate. Failure to clean icemaker system will result in decreased performance and potential damage to icemaker. Refer to Icemaker Installation, Operation and Service Manual.
Service

Dispense chute cover removal
1. Remove top cover.
2. Remove two screws from top cover and pull cover forward and down to remove.
3. On push button units, disconnect plug on harness.

Auger motor assembly removal
1. Remove drain pan.
2. Remove thumbscrews from splash guard and remove.
3. Remove thumbscrews from splash panel; lift and pull forward at base of panel and remove.
4. Unplug auger motor at connector.
5. Remove two 1/4-20 bolts holding auger motor to hold-down bracket.
6. Remove two thumbscrews from auger motor stabilizer bracket and set aside.
7. Lift auger motor off.

Gate assembly removal
1. Remove dispense chute cover and auger motor assembly.
2. Remove thumbscrews on each side of clear focus chute and remove.
3. Remove quick release pin holding dispense gate assembly and chute.
4. Lift gate up and over hinge tabs, then carefully pull and tilt to unhook from solenoid link.
5. Pull ice chute toward you to unclip from dimples on chute mounting bracket.
6. Pull ice chute and gate toward you and out through panel opening.
7. Lift dispenser mechanism assembly off auger and auger tube.

Auger and auger tube removal
1. Remove dispense chute cover and auger-motor assembly.
2. Remove side panel of tower.
3. Remove screw holding top auger tube ring to lower ring.
4. Lift auger out of auger tube.
5. Lift out auger tube, turning as needed to clear rivnuts on side auger motor mounting bracket.

Dispenser wheel removal
1. Remove dispenser top and turn power switch OFF.
2. Remove all ice from bin.
3. Remove drain pan and ice bin access cover below it.
4. Remove splash guard and wheel motor access cover.
5. Unplug wheel motor at connector and remove ground wire.
6. Remove wheel motor by pulling out two quick release pins.
7. Lift drive shaft up through hole in countertop.
8. Lift dispense wheel out through drain pan opening.
## Dispenser troubleshooting guide

### Before calling for service
1. Check that ice is in the dispenser and that congealed cubes are not causing a jam.
2. Check that circuit breaker and switches are in ON position.
3. Check that drain pan, rear lid and top are on securely. If ajar, dispenser will not operate. When the top is off, auger does not operate, even though the solenoids do (page 18).
4. Check that all drains are clear.

**Note:** For units equipped with Follett compressed nugget icemaker, see Icemaker Operation and Service Manual for service and troubleshooting information.

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Possible cause</th>
<th>Solution</th>
</tr>
</thead>
</table>
| Ice does not dispense.  
  • Auger motor does not run  
  • Wheel motor does not run | 1. Power switch faulty or in OFF position; loose connection.  
  2. Faulty dispense switch.  
  3. Faulty transformer.  
  4. Drain pan ajar.  
  5. Faulty drain pan safety switch. | 1. Turn power switch to ON position; check connections.  
  2. Replace switch.  
  3. Replace transformer.  
  4. Check pan and reseat.  
  5. Replace switch. |
| Ice does not dispense.  
  • Auger motor runs  
  • Wheel motor runs  
  • Gate does not open | 1. Loose electrical connection.  
  2. Linkage problem between solenoid and gate.  
  2. Check linkage.  
  3. Replace solenoid. |
| Ice does not dispense.  
  • Auger motor does not run  
  • Wheel motor runs | 1. Loose electrical connection.  
  2. Faulty auger motor.  
  2. Check auger motor.  
  3. Check run capacitor. |
| Ice does not dispense.  
  • Auger motor runs  
  • Wheel motor does not run | 1. Loose electrical connection.  
  2. Faulty wheel motor.  
  2. Check wheel motor.  
  3. Check capacitor. |
| Warm drinks or soda foaming. | 1. No ice in storage bin.  
  2. Water drained out of ice water bath.  
  3. Circulating pump not running.  
  4. Board off on fill error. | 1. Fill storage area with ice or check icemaker operation.  
  2. Check that ice water bath drain tube is in fixed upright position.  
  3. Check pump and PC board for output.  
  4. Cycle power on/off to reset board. |
| No ice in dispenser. | 1. Power switch in OFF position or faulty.  
  2. Bin signal switches in OFF position or faulty.  
  3. Faulty bin thermostat.  
  4. Faulty transformer.  
  5. Icemaker related problem.  
  6. Faulty or disconnected wiring. | 1. Check switch and replace if necessary.  
  2. Check switch and replace if necessary.  
  3. Replace bin thermostat.  
  4. Replace transformer.  
  5. Refer to Icemaker Operation and Service Manual for diagnosing.  
  6. Check for power and bin signal on icemaker PC board. |

If problems persist after following this basic troubleshooting guide, call Follett's technical service department at (800) 523-9361 or (888) 2-FOLLETT or (610) 252-7301.
Operational Status
The chart below shows the operational status of various parts when certain switches are turned off or accessories are removed.

<table>
<thead>
<tr>
<th>Condition</th>
<th>Pump</th>
<th>Solenoids</th>
<th>Auger</th>
<th>Wheel</th>
<th>Beverage valves</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top lid off</td>
<td>OFF</td>
<td>ON</td>
<td>OFF</td>
<td>OFF</td>
<td>ON</td>
</tr>
<tr>
<td>Drain pan off</td>
<td>ON</td>
<td>ON</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
</tr>
<tr>
<td>On/off switch in OFF position</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
</tr>
<tr>
<td>Beverage switch in OFF position</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td>OFF</td>
</tr>
</tbody>
</table>

Waterbath circuit board operation
The temperature sensor is hard wired directly to the circuit board. The waterbath circuit board operates on 24 volts AC. The bath pump will run for 35 minutes whenever ice is dispensed or the bath calls for ice.

Optimal beverage temperature is controlled by the circuit board located in the electrical box. The board monitors the waterbath temperature and holds it to a factory setting. When the Red LED is ON, the bath solenoid, auger motor, wheel motor and bath pump are energized. Ice will be dispensed into the waterbath for 12 seconds, then stop for 60 seconds. The pump will stay energized, and the circuit board will then monitor the water temperature. If it is below the set point, the Green LED will come on, the Red LED light will go off, and ice will not dispense into the waterbath. If the temperature of the bath is determined to be above the set point, the Red LED will remain on. The circuit board has a delay of 60 seconds before more ice is dispensed into the waterbath.

LED indicators:
- **Green** – the waterbath is at the set temperature.
- **Red** – the bath temperature is above the set temperature and the bath is calling for ice.

Flashing LED indicators:
- **Flashing Red and Green** – the circuit board has gone into an **error mode**:
  - **Alternate flashing** – circuit board has power and is waiting for hopper cover and dispenser top to be replaced.
  - **Simultaneous flashing** – the waterbath did not reach set temperature in 40 minutes. Reset this error mode by turning power off, removing top lid, drain pan or rear lid.

Electrical box
Front View

```
bev. bath indicator

power on/off switch

probe

#1 #2

icemaker switches

warm/red LED

cold/green LED
```

18
## Replacement parts

<table>
<thead>
<tr>
<th>Reference #</th>
<th>Description</th>
<th>Part #</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Lid, with graphics, single-sided</td>
<td>501930</td>
</tr>
<tr>
<td>2</td>
<td>Lid, with graphics, dual-sided</td>
<td>501931</td>
</tr>
<tr>
<td>3</td>
<td>Graphics, “Follett”</td>
<td>501938</td>
</tr>
<tr>
<td>4</td>
<td>Access panel, tower, single-sided</td>
<td>501944</td>
</tr>
<tr>
<td>5</td>
<td>Access panel, tower, dual-sided</td>
<td>501945</td>
</tr>
<tr>
<td>Not shown</td>
<td>Cover, ice opening (below drain pan)</td>
<td>501934</td>
</tr>
<tr>
<td>6</td>
<td>Drain pan assembly and grille</td>
<td>501935</td>
</tr>
<tr>
<td>7</td>
<td>Drain pan, plastic</td>
<td>501936</td>
</tr>
<tr>
<td>Not shown</td>
<td>Switch, drain pan safety</td>
<td>501318</td>
</tr>
<tr>
<td>8</td>
<td>Grille, drain pan</td>
<td>501937</td>
</tr>
<tr>
<td>9</td>
<td>Chute cover, dispense, push-button with switch</td>
<td>501957</td>
</tr>
<tr>
<td>Not shown</td>
<td>Chute cover, dispense, lever</td>
<td>501956</td>
</tr>
<tr>
<td>10</td>
<td>Splash guard</td>
<td>501943</td>
</tr>
<tr>
<td>11</td>
<td>Thumbscrew, 10/32-1/2, splash guard</td>
<td>501100</td>
</tr>
<tr>
<td>Not shown</td>
<td>Switch, dispense, PB</td>
<td>502441</td>
</tr>
<tr>
<td>Not shown</td>
<td>Switch, dispense lever (includes boot and spacer)</td>
<td>501714</td>
</tr>
<tr>
<td>Not shown</td>
<td>Boot, dispense switch button, lever</td>
<td>501841</td>
</tr>
<tr>
<td>Not shown</td>
<td>Access cover, wheel motor (behind splash guard)</td>
<td>501932</td>
</tr>
<tr>
<td>Not shown</td>
<td>Skid</td>
<td>501946</td>
</tr>
<tr>
<td>Not shown</td>
<td>Carton and fillers</td>
<td>501947</td>
</tr>
<tr>
<td>Not shown</td>
<td>Lip kit (plastic strip bordering ice bin opening and adhesive)</td>
<td>502285</td>
</tr>
<tr>
<td>Not shown</td>
<td>Insulation, transport tube (sold by the foot)</td>
<td>501176</td>
</tr>
<tr>
<td>Not shown</td>
<td>Tube, ice transport, 10 ft</td>
<td>502522</td>
</tr>
<tr>
<td>Not shown</td>
<td>Tube, ice transport, 20 ft</td>
<td>502523</td>
</tr>
<tr>
<td>Not shown</td>
<td>Plug 2 lead, male</td>
<td>502333</td>
</tr>
<tr>
<td>Not shown</td>
<td>Plug 2 lead, female</td>
<td>502334</td>
</tr>
</tbody>
</table>
### Reference # | Description | Part #
--- | --- | ---
1 | Motor, auger (includes capacitor) | 501984
2 | Bracket, auger motor hold-down | 502047
**Not shown** | Bracket, auger motor stabilizer, single-sided models | 502060
**Not shown** | Bracket, auger motor stabilizer, dual-sided models | 502113
**Not shown** | Seal, shaft, auger motor | 501977
3 | Auger | 501980
4 | Auger tube (includes insulation) | 502631
5 | Insulation, auger tube | 502099
6 | Ring, auger tube, upper | 501939
7 | Ring, auger tube, lower | 502155
8 | Motor, wheel, Brother (includes capacitor) | 502657
9 | Bracket, wheel motor | 501981
**Not shown** | Capacitor, wheel motor, Brother | 502658
**Not shown** | Gasket, wheel motor bracket | 501982
**Not shown** | Pin, quick release, wheel motor (2 required) | 502102
10 | Drive shaft assembly, for Brother motor | 502630
11 | Agitator rods, fixed, front and back | 502629
12 | Wheel, dispense | 501978
13 | Bearing plate, bottom auger | 501971
**Not shown** | Bearing, bottom, auger | 501972
**Not shown** | Agitator rod, ramped | 502628
**Not shown** | Bracket, fixed agitator (3 used per unit) | 501974
**Not shown** | Thumbscrew, 10/32 x 3/4, fixed agitator bracket (2 required) | 501259
14 | Tee, drain | 502059
15 | Thermostat | 501432
**Not shown** | Retainer, ice hose (includes 2 thumbscrews) | 501764
16 | Bracket, ice hose and wheel motor | 502050
### Reference # | Description | Part # 
--- | --- | ---
1 | Gate, dispense | 501955 
2 | Linkage pin, gate/solenoid | 502096 
3 | Pin, quick release, 3" (77mm), gate and lever | 501949 
4 | Chute, ice | 501952 
5 | Solenoid | 501961 
**Not shown** | Boot, solenoid | 502098 
6 | Dispense mechanism assembly | 501948 
7 | Spring, dispense mechanism (1 per side) | 501950 
**Not shown** | Chute, focus | 501954 
**Not shown** | Lever, dispense | 501953 

### Reference # | Description | Part # 
--- | --- | ---
1 | Ice guide | 00111450 
2 | Fitting, pump discharge | 00111443 
3 | Syrup coil | 502462 
4 | Waterbath ice guide assembly (includes 0011443, 0011450) | 00111468 
5 | Carbonated water coil, 14" | 502460 
6 | Carbonated water coil, 12 1/2" | 502461 
7 | Pump, waterbath | 00111476 
**Not shown** | Tubing, vinyl, 1/2" (13mm) ID x 5/8" (17mm) OD (order by the foot – 5 feet required for bath, 2 feet required for overflow) | 501965 
8 | Tubing, vinyl, pump (order by the foot – 3 feet required) | 501966 
9 | Fitting, beverage valve | 00111492 
10 | Clamp, Oteicker, 1/4" | 00106914 
11 | Tubing, beverage, 1/4" (order by foot) | 00111500
Reference # | Description                                                                 | Part #  
---|---|---  
1 | Transformer, 24V | 502058  
2 | Relay, dispense  | 501826  
3 | Strips, terminal | 502472  
4 | Switches (power and icemaker) | 502209  
5 | Board, circuit and probe (one unit) | 502473  
6 | Bracket, probe | 00111484  
7 | Switch, safety | 502511  
Not shown | Switch, safety, drain pan assembly, LH unit | 502500  
Not shown | Switch, safety, drain pan assembly, RH unit | 502501  
Not shown | Switch, dispense, lever | 502505  
Not shown | Bracket, safety switch, drain pan, RH | 502609  
Not shown | Bracket, safety switch, drain pan, LH | 502610  
Not shown | Thermostat, bin level | 501432