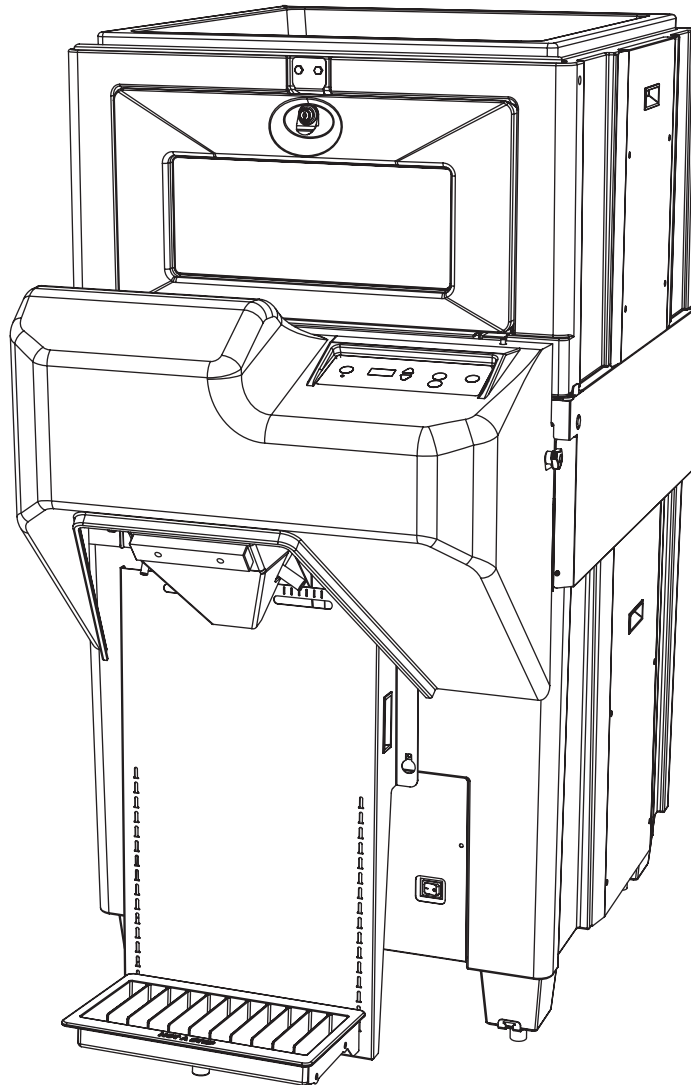


Ice Pro™ DB650, EDB650 Automatic Ice Bagging and Dispensing System

Order parts online
www.follettice.com

Installation, Operation and Service Manual



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

Contents

Welcome to Follett.	3	Replacement parts & accessories	19
Before you begin.	3	Accessories	19
Specifications	4	Upper chassis	20
Electrical	4	Lower chassis	21
Plumbing.	4	Lower chassis (cont.)	22
Clearance and access information.	4	Dispense auger	23
Ice type	4	Electrical system, upper box.	24
Icemaker weight limit	4	Electrical system, lower box	25
Environment	4		
Container sizes.	4		
Bag pins	4		
Dimensions and clearances	5		
Installation	6		
Location	6		
Leveling.	6		
Utility connections.	6		
Bag pin installation	7		
Foot pedal accessory	7		
Bag installation	7		
Adjusting drain pan.	9		
Brush bracket	9		
Sanitize	9		
Icemaker	9		
Filling other containers	10		
Operation	11		
How the dispenser works	11		
Control functions.	12		
Power switch.	12		
Cleaning and sanitizing	13		
DB650 wiring diagram, upper control box	14		
DB650 wiring diagram, lower control box.	15		
EDB650 wiring diagram, upper control box	16		
EDB650 wiring diagram, lower control box	17		
Before calling for service	18		

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.
3. Follett receives the equipment at the factory in Easton, PA within 30 days after issuance 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

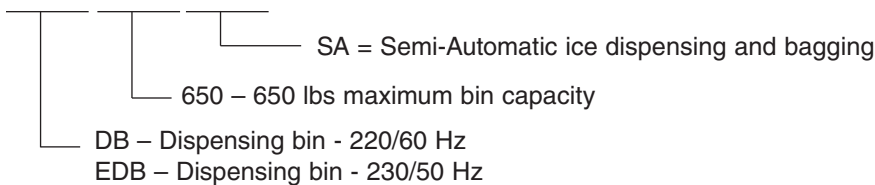
Follett ice dispensers enjoy a well-deserved reputation for excellent performance, long-term reliability and outstanding after-the-sale support. To ensure that this dispenser performs as intended, we ask that you take a moment to review this manual before beginning the installation of the dispenser. Should you have any questions or require technical help at any point, please call our technical service group, (800) 523-9361 or (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 Ice Pro series.

DB650SA



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.

Should local codes require a hard-wired connection and/or shielded wiring, eliminate the cord(s) and plug(s) and follow the appropriate wiring diagram.

Dispenser can accommodate most cube or cubelet ice up to 1" square. Crushed, flake, or nugget ice cannot be used. Use of these ice types can jam dispenser and will void warranty. For questions about ice compatibility, call Follett's customer service group toll free at (800) 523-9361 or (610) 252-7301.

Always disconnect power before cleaning or servicing the dispenser.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they are supervised or provided instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

Specifications

Electrical

DB650 – The Ice Pro DB650 dispenser requires a separate electrical circuit from the icemaker. Equipment ground required. Standard electrical - 220V, 60Hz, 1 phase, maximum fuse – 5 amps, 15 amp circuit, NEMA 6-15 receptacle. The cord length is approximately 7' from right rear. A plug is provided.

EDB650 – The Ice Pro DB650 dispenser requires a separate electrical circuit from the icemaker. Equipment ground required. Standard electrical - 230V, 50Hz, 1 phase, maximum fuse – 5 amps, 15 amp circuit, max power - 3450 watts. The cord length is approximately 7' from right rear. A plug is not provided.

Plumbing

Drain 1" PVC FPT for bin drain – run to floor drain.

Note: Drains should be hard-piped and insulated. Maintain at least 1/4" per foot (1 cm per 48 cm run) slope on drain line run. Do not tee into icemaker drain line.

Clearance and access information

Door entry – Installation sites must have an unobstructed path to installation location with door openings no less than 34.5" (877 mm).

Service clearance – A minimum of 12" (305 mm) to right of unit is necessary for service.

Ice type

Dispenser can accommodate most cube/cubelet ice up to 1" square as well as Follett Horizon™ Chewblet® ice. Crushed, flake, or other manufacturers nugget ice cannot be used. Use of these ice can jam dispenser and will void warranty. For questions about ice compatibility, call Follett's technical service group toll free at (800) 523-9361 or (610) 252-7301.

Icemaker weight limit

Icemaker mounted directly on top of bin must not exceed 800 lbs (363 kg).

Environment

Intended for indoor use only - operating temperature range of 40 - 100 F (4 – 38 C). Not suitable for installation in an area where a water jet could be used. (The dispenser should not be cleaned with a water jet or be exposed to water jet used to clean surrounding areas) The dispenser has to be placed in a horizontal position. The dispenser is only to be installed in locations where it can be overseen by trained personnel.

Container sizes

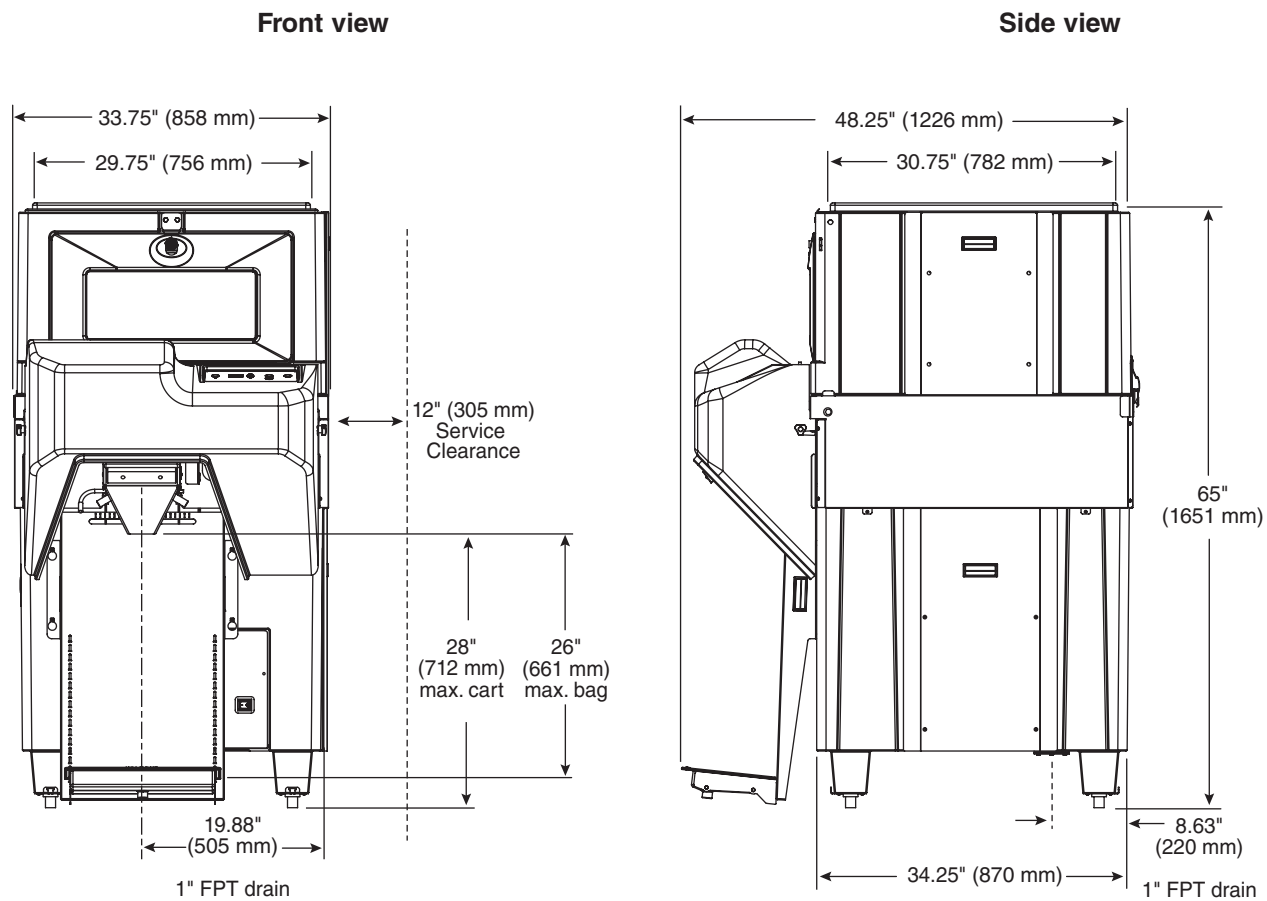
Unit accommodates bag sizes up to 20 lbs (9 kg) / 27.35" (695 mm) high.

Dispense chute compatible with carts and containers up to 28" (712 mm) high.

Bag pins

Bag pins may be adjusted to accommodate bag hole centers from 5" (127 mm) to 10" (254 mm).

Dimensions and clearances



Notes

Follett Horizon icemakers and other icemakers less than 30" wide require a top that adds 2" to standard unit height.

Installation

Location

A minimum of 12" (305 mm) to the right of the unit must be available for service clearance (see dimensions and clearances - page 5). Allow access to front of unit for bagging operation and dispensing.

Leveling

Leveling the unit is important for the proper operation of any top mounted icemaker. The dispenser is shipped with the legs in the fully retracted position. Each leg may be adjusted independently by turning clockwise to lower the leg or counterclockwise to raise the leg. Do not remove legs; interference will occur with the bag stand and dispense chute.

Utility connections

Bin drain

Drain connection is made to the 1" FPT PVC fitting (Fig. 1). Leave a minimum of 1/4" per foot (1 cm per 46 cm run) slope on drain line run. Insulate the entire run length to prevent condensation from forming on outside of drain line.

Note: Avoid excessive tightening force when connecting to this fitting.

Note: Do not apply excessive heat if any sweating of fittings is necessary. Heat conduction through metal may melt threads in plastic drain.

Drain pan

The drain pan on the bag stand may be drilled out and plumbed if desired. Use an 11/16" drill bit, a 3/4" FPT elbow and PVC glue. Plumb with flexible tubing to allow for height adjustment.

Electrical

Electrical connections to be in accordance with local and NEC codes. Each dispenser and icemaker require separate circuits. Equipment ground required.

Note: If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a safety hazard.

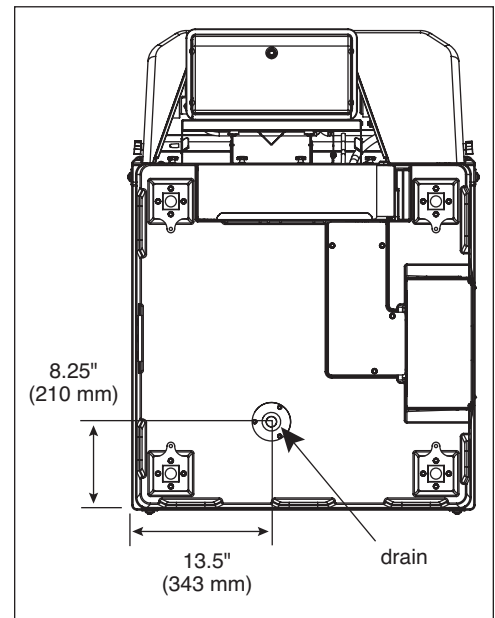
DB650

220V, 60Hz, 1 phase. Max. fuse – 5 amps, 15 amp circuit. Provide NEMA 6-15 receptacle within 7' of right rear corner. Cord and plug provided.

EDB650

230V, 50Hz, 1 phase. Max. fuse – 5 amps, 15 amp circuit, max power - 3450 watts. Provide means of connection within 7' of right rear corner. Cord provided without plug.

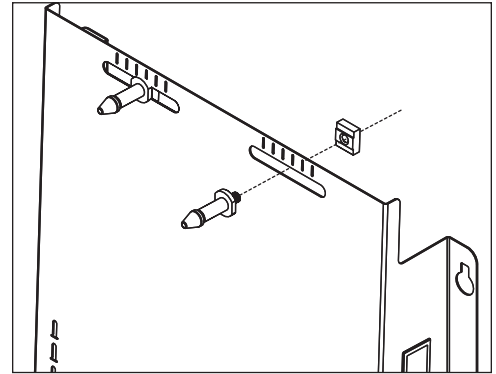
Fig. 1 Bottom view



Bag pin installation

1. Position plastic bag pin nuts onto the rear slots of the bag stand (Fig. 2).
2. Thread in and tighten bag pins.

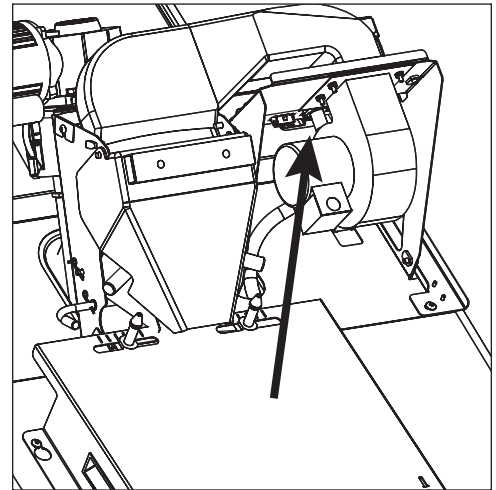
Fig. 2



Foot pedal accessory

The optional foot pedal accessory allows dispensing of ice while keeping your hands free. The pedal is placed on floor near bag stand in front of the dispenser. It plugs into the 3-pin connector located just under the control panel behind the blower motor (Fig. 3).

Fig. 3

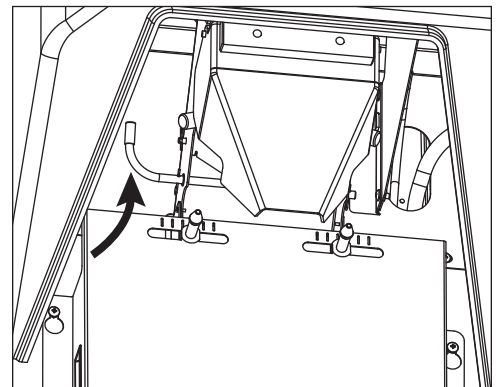


Bag installation

Note: Bag pins are designed to be used with bags mounted on wire wickets. Do not install more than one wicket of bags at a time.

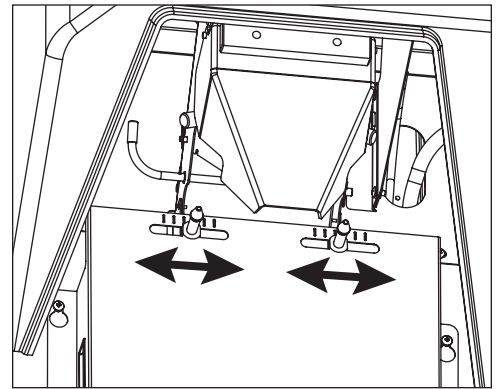
1. Move chute lever to up position (Fig. 4).

Fig. 4



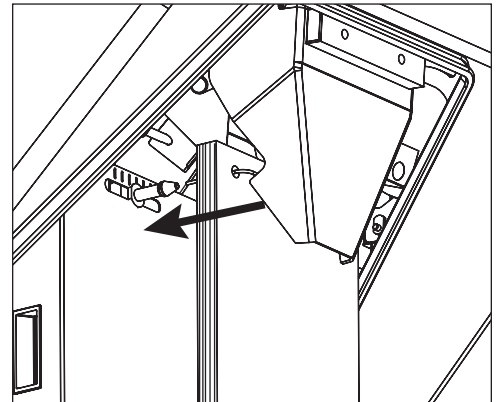
2. Adjust bag pin width to match that of the bag wicket (Fig. 5). Center bag pins evenly.

Fig. 5



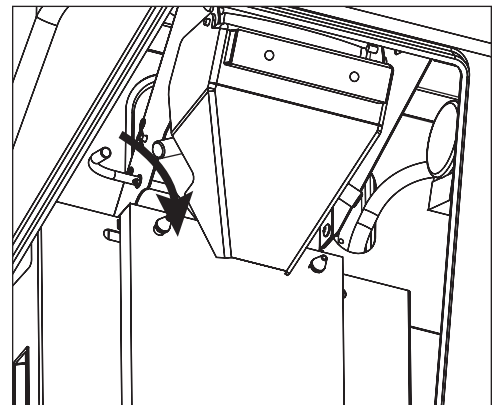
3. Remove rubber keepers from wicket and insert wicket wires into bag pins. Transfer bags from wicket to bag pins. Slide 15 to 20 bags onto pins at a time until pins are full (Fig. 6).

Fig. 6



4. Return chute lever to down position (Fig. 7). The back of the chute holds bags to prevent more than one opening at a time.

Fig. 7

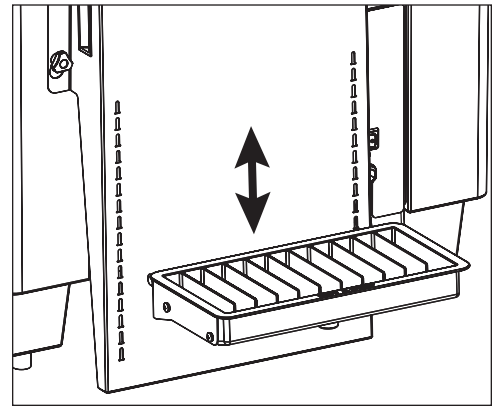


Adjusting drain pan

The drain pan may be raised or lowered to accommodate different bag sizes and helps to support the bag while filling (Fig. 8). The bottom of bags should rest on the tray when adjustment is correct.

1. Lift drain pan up and out of receiving slot on bag stand base.
2. Insert drain pan in and down into desired receiving slot on bag stand.
3. Marking the drain pan position makes future positioning easier.

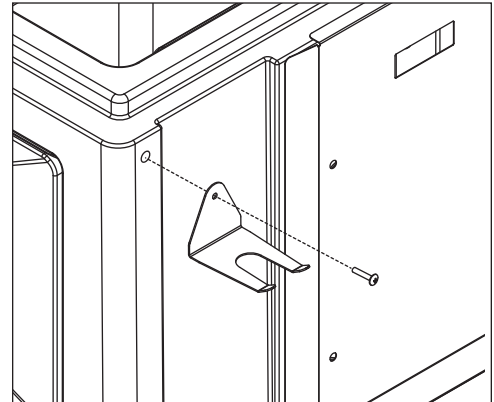
Fig. 8



Brush bracket

Mount the cleaning brush bracket to the top front left or right side of the bin in one of the threaded inserts and hang cleaning brush (Fig. 9).

Fig. 9



Sanitize

Follow cleaning and sanitizing instructions before use - see page 13.

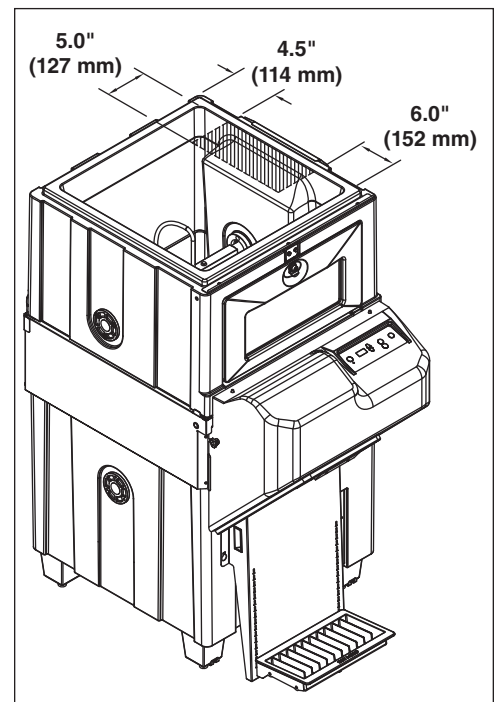
Icemaker

Follow icemaker manufacturer's recommendations for installation.

Note: Icemaker mounted on top may not exceed 800 lbs (363 kg).

Ensure that the drop zone of the ice does not fall onto the upper right hand section of the bin (See shaded area in Fig. 10). Ice falling from ice machine can hit this area of the bin and cause damage to the icemaker.

Fig. 10



Filling other containers

1. Ensure blower is off.
2. Move chute lever to up position (Fig. 11).
3. Adjust drain pan as needed.
4. Containers up to 28.75" (731 mm) tall may be used by removing drip tray (Fig. 12).

Fig. 11

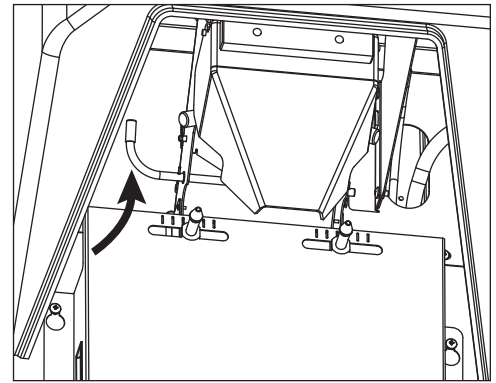
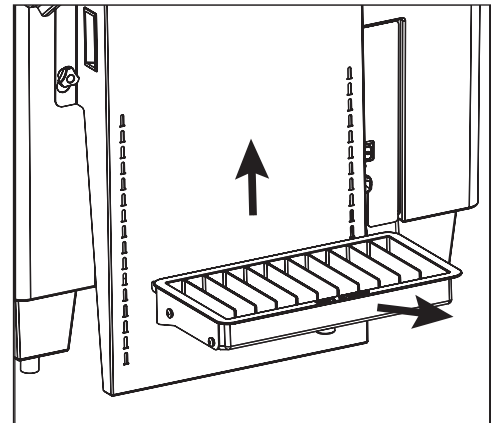


Fig. 12

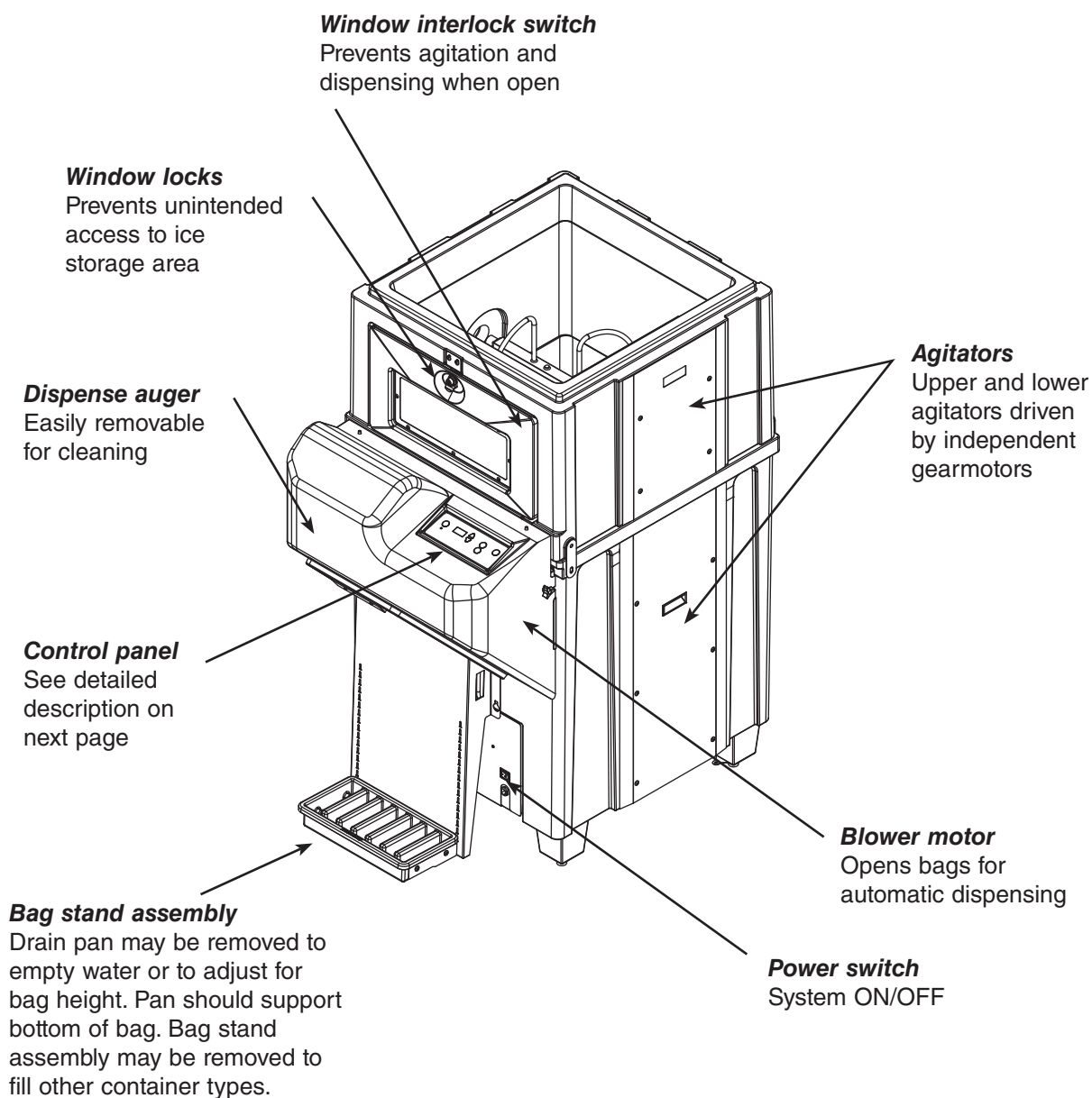


Operation

How the dispenser works

Follett's Ice Pro bagging and dispensing system can operate in manual or semi-automatic ice dispensing and bagging configurations. The Ice Pro dispenser features a blower to open bags for high volume, hands-free dispensing, bag holder pins for use with wicketed bags, and a programmable dispense timer.

Ice is stored in the bin above the dispense auger. The upper and lower agitators break fused ice and direct it into the auger for dispensing. When the timed or manual button is pressed, the dispense motor is activated. This causes the auger assembly in the storage area to move ice to the dispense chute where it drops by gravity into a bag or other container.



Control functions

1. Open bag

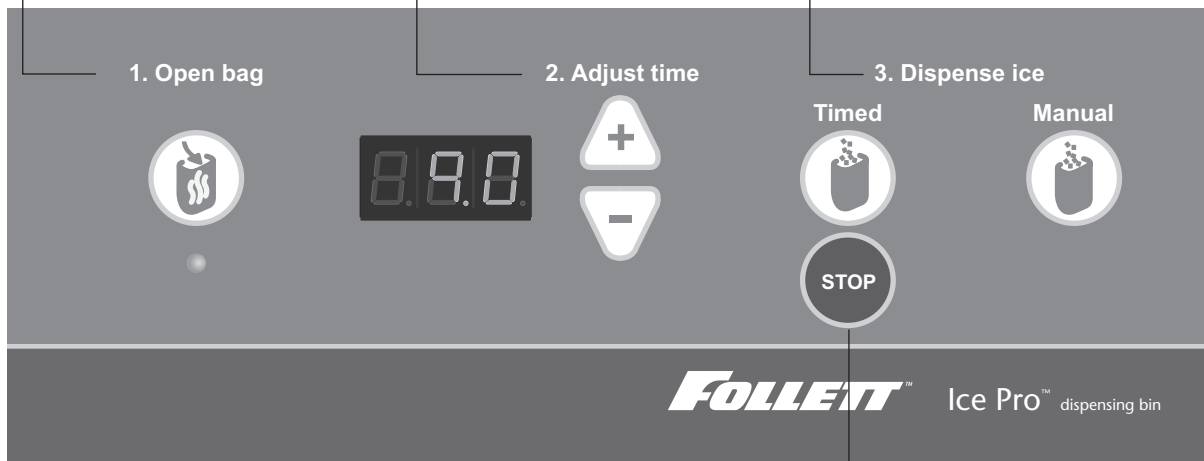
Press to turn on blower. Automatically blows open one bag at a time. Press again to turn blower off. Blower automatically turns off after 10 minutes.

2. Adjust time

Press **+/-** to change timed dispense duration in seconds - maximum time: 30 seconds

3. Dispense ice

Press **Timed** once to dispense automatically. Hold **Manual** to top off bag or fill other containers

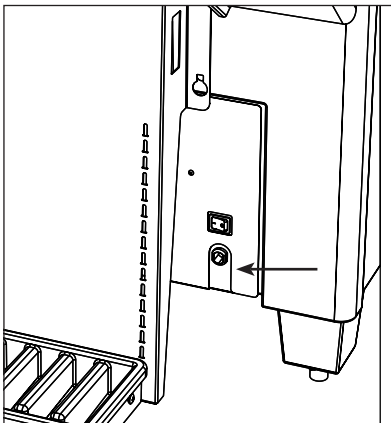


Stop

Press to stop timed dispense

Power switch

Note: Do not turn power OFF during normal operation. Turning power OFF disables periodic agitation cycle which may lead to fused ice and damage to dispenser that may void warranty.



Cleaning and sanitizing

Note: Do not clean with water jet.

Exterior care

A mild detergent cleaner may be used to clean the exterior plastic sides of the bin. Stainless steel portions of the bin can be cleaned with a stainless cleaner such as 3M Stainless Steel Cleaner & Polish or equivalent.

Interior care

The interior should be cleaned and sanitized every six months, or more often as conditions dictate, with the solutions A and B shown below.

Solution A – Cleaning solution:

Combine 1 oz (30ml) bleach with 2 gal (7.6L) hot water or use Ecolab *Mikro-chlor sanitizer and mix for 200 ppm available chlorine.

Solution B – Sanitizing solution:

Combine 1/4 oz (7ml) bleach with 2 gal (8L) hot water or use Ecolab Mikro-chlor sanitizer and mix for 50 ppm available chlorine.

Cleaning brush

A long-handled cleaning brush should be used to access the bottom of the Ice Pro bin.

Cleaning and sanitizing procedure

1. Remove all ice from bin
2. Disconnect power from icemaker and dispenser (Fig. 13.1).
3. Remove ice storage window (Fig. 13.2).
4. Remove front cover by loosening side thumb screws and lifting off of top guide pins (Fig. 13.3).
5. Detach gearmotor's two latches and set motor and attached auger coupling aside. (Fig. 14.1).
6. Remove blower duct by loosening thumb screw rotating clip and lifting up (Fig. 14.2).
7. Remove ice chute assembly (Fig. 14.3).
8. Pull out auger (Fig. 15.1).
9. Remove auger tube by unscrewing thumb screw on left side, lift up on retaining clamp and pull tube out of bin. Note position of locating slot on upper end for reinstallation (Fig. 15.2).
10. Remove drip tray from bag stand (Fig. 15.3).
11. Clean all components, inner bin storage surfaces and dispense chute surfaces with a brush and cleaning solution A. Rinse thoroughly with clean water.
12. Sanitize all components and bin storage surfaces with solution B - do not rinse.

Drain line care

After cleaning and sanitizing procedure, and before refilling bin with ice, pour a solution of one cup (8oz / 237ml) bleach mixed with one gallon (3.8L) hot water into drain to help prevent algae growth in the drain lines.

Fig. 13

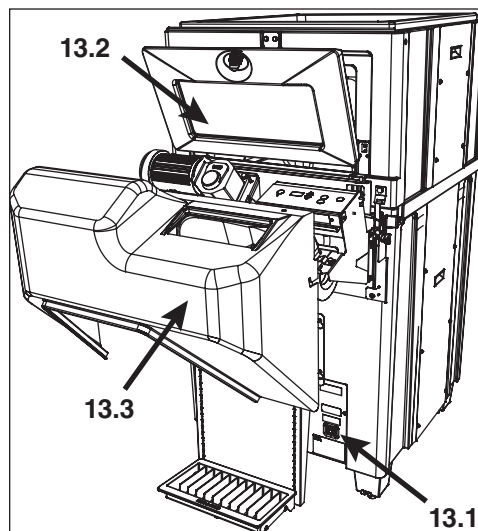


Fig. 14

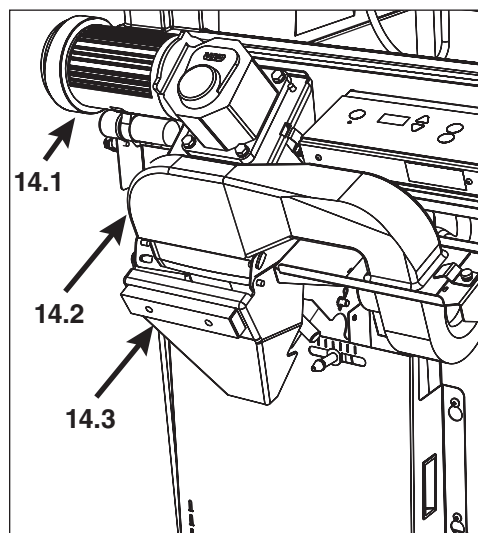
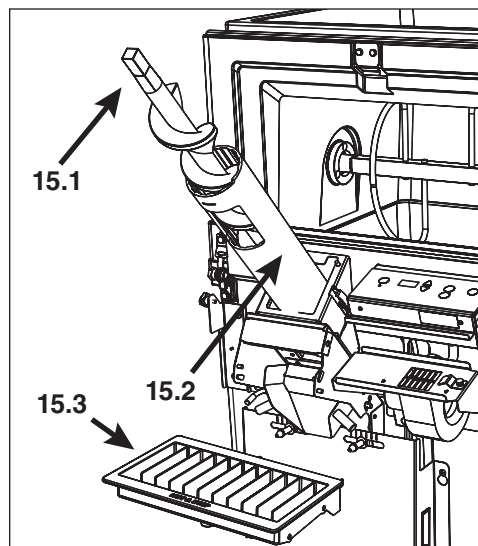
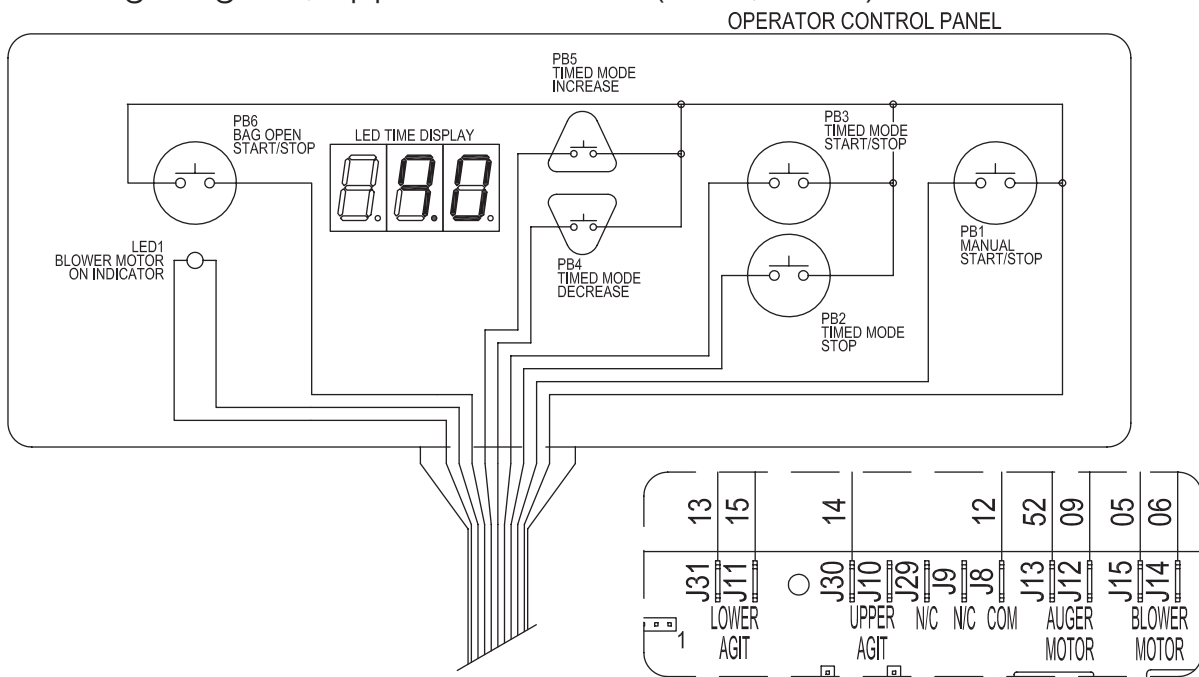


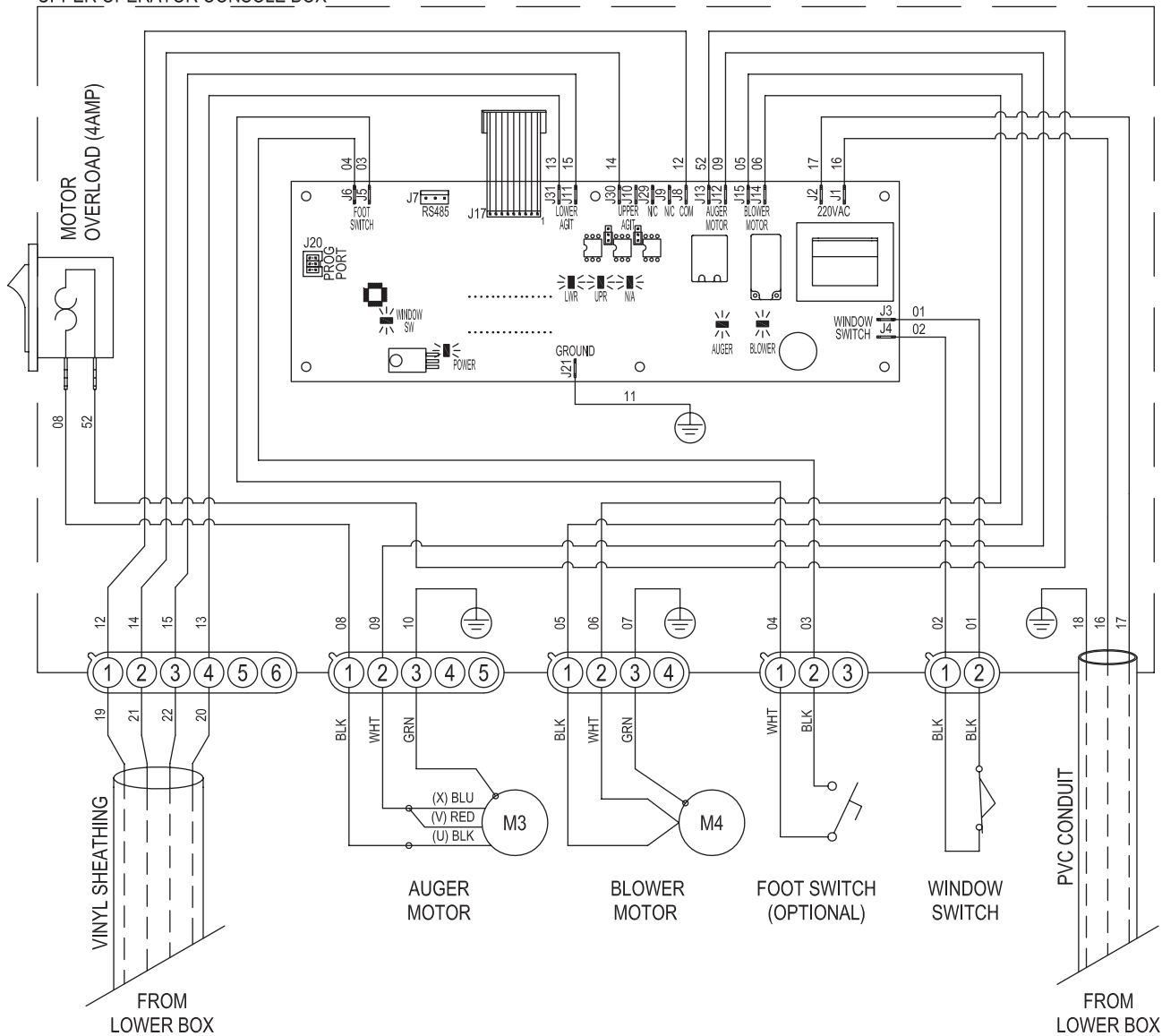
Fig. 15



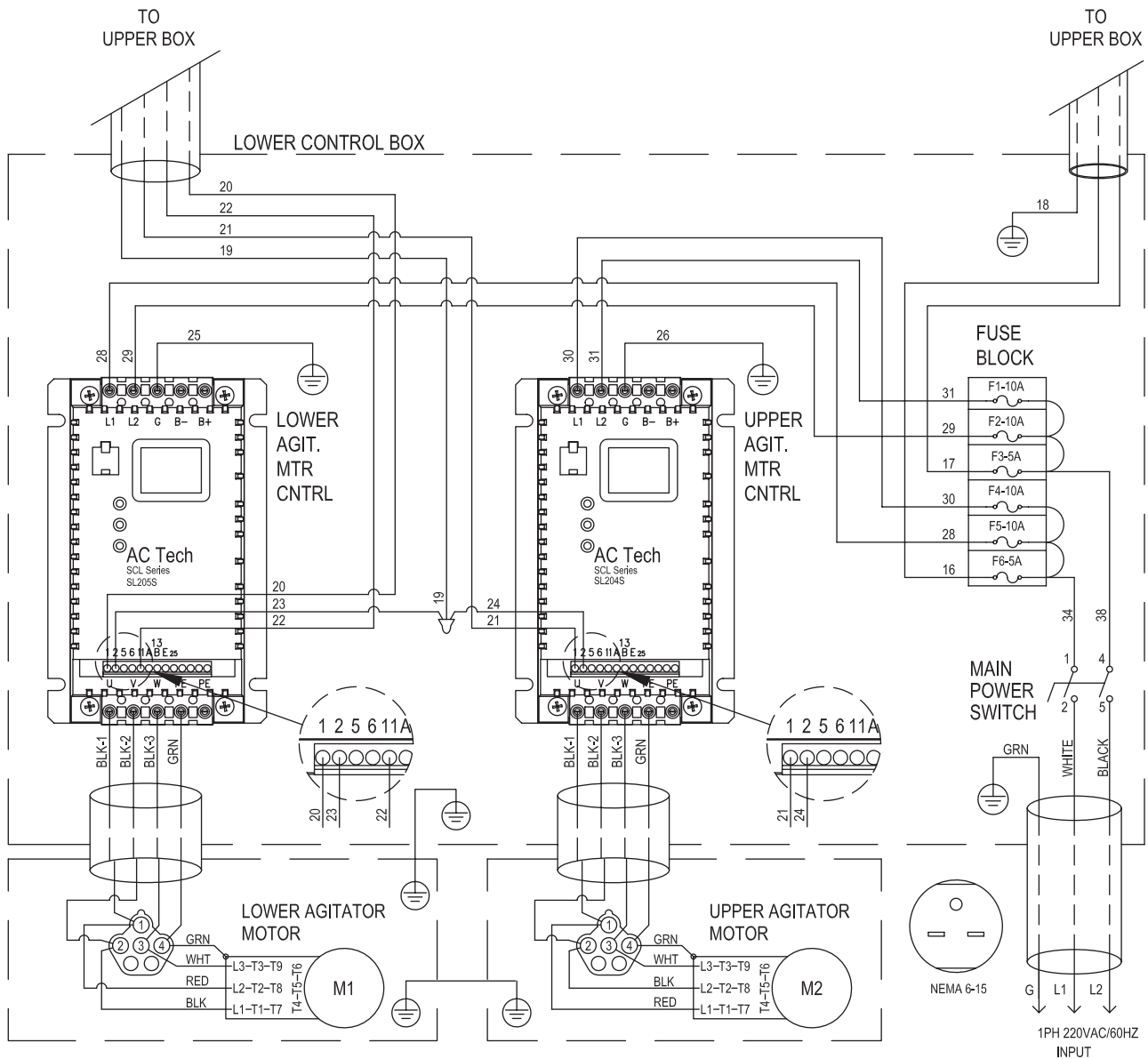
DB650 wiring diagram, upper control box (220V, 60Hz)



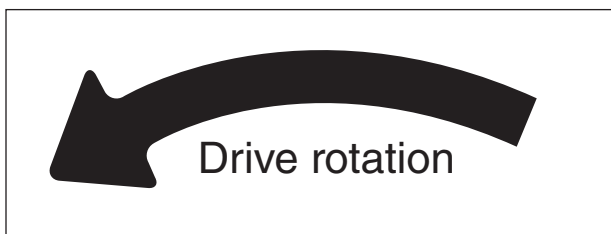
UPPER OPERATOR CONSOLE BOX



DB650 wiring diagram, lower control box (220V, 60Hz)

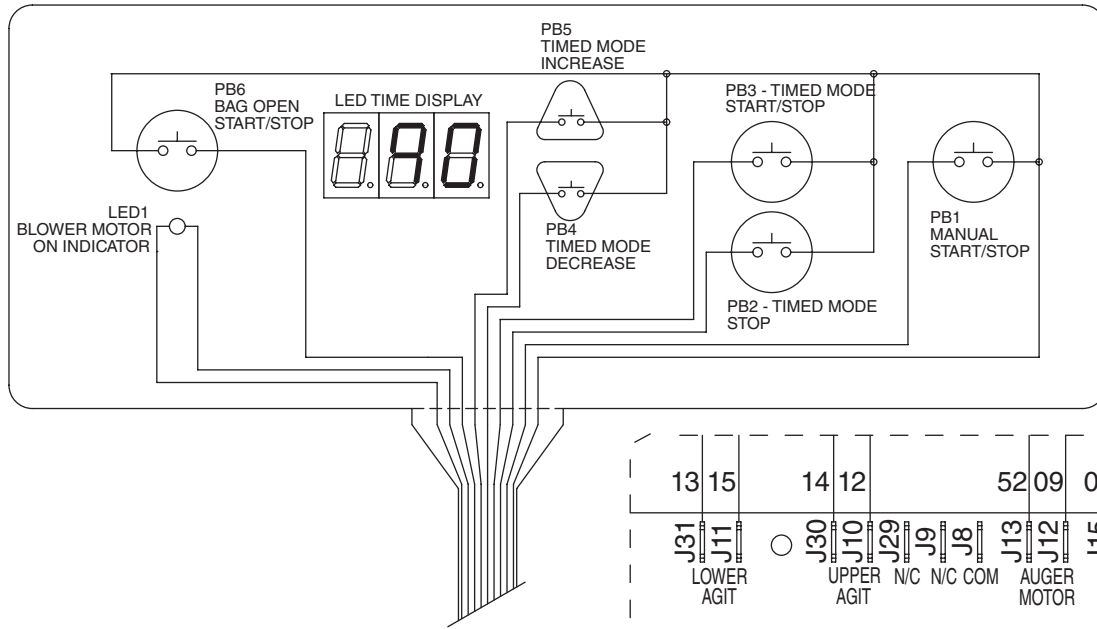


Note: Both upper and lower agitator motors turn counter clockwise.

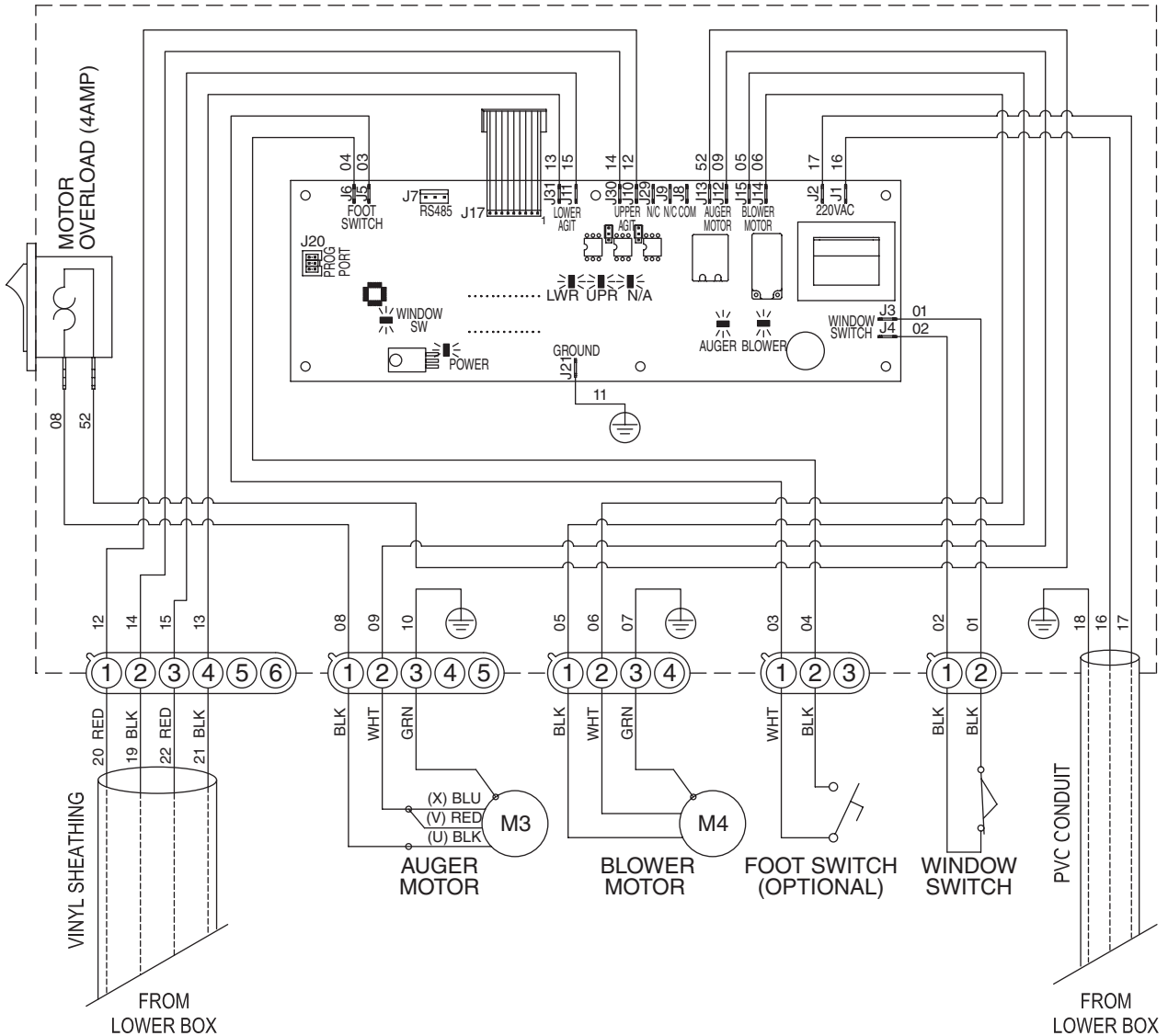


EDB650 wiring diagram, upper control box (230V, 50Hz)

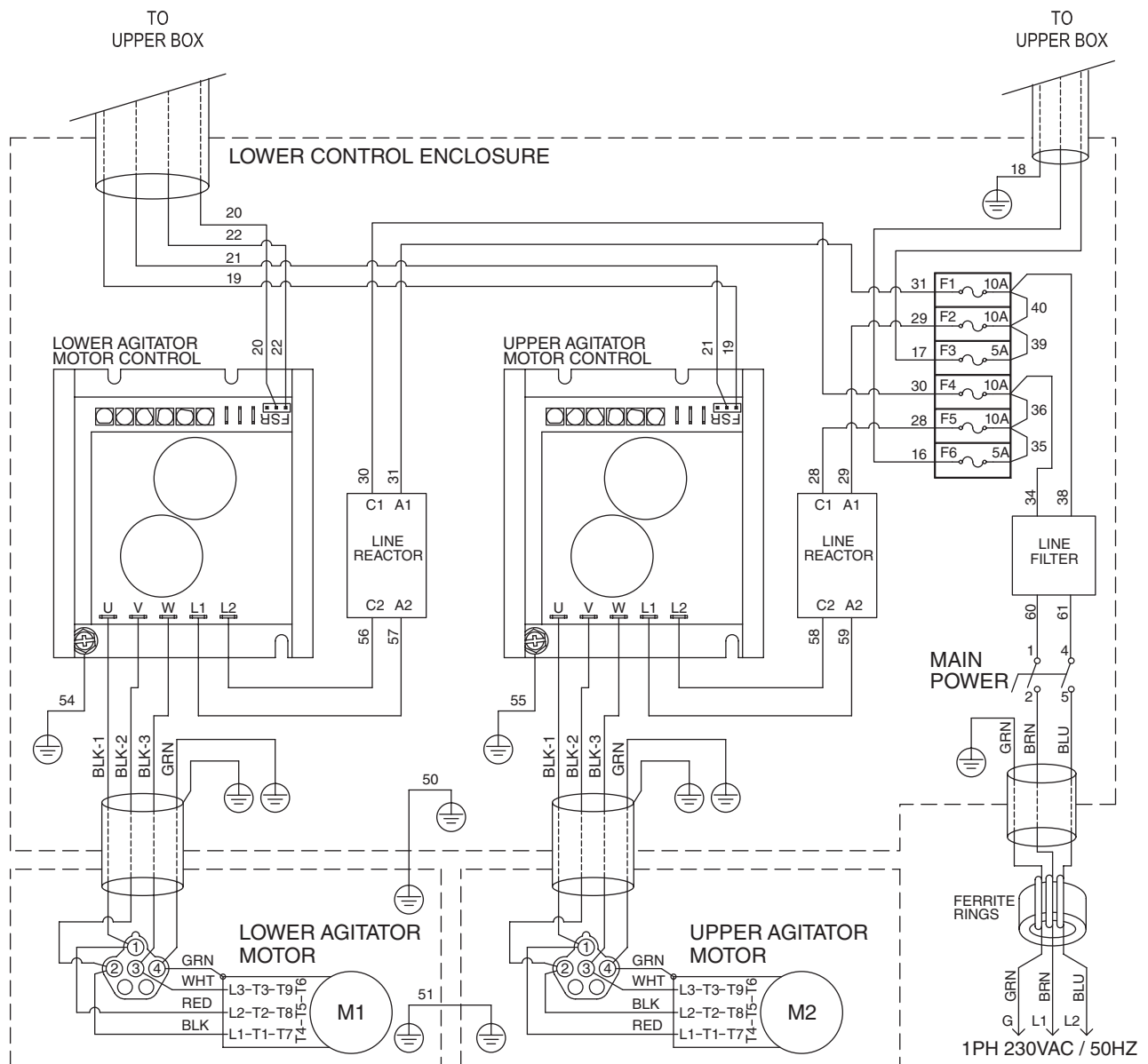
OPERATOR CONTROL PANEL



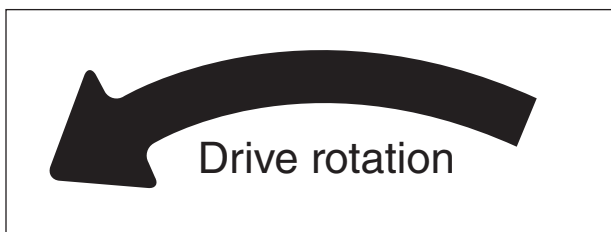
OPERATOR CONTROL ENCLOSURE



EDB650 wiring diagram, lower control box (230V, 50Hz)



Note: Both upper and lower agitator motors turn counter clockwise.



Before calling for service

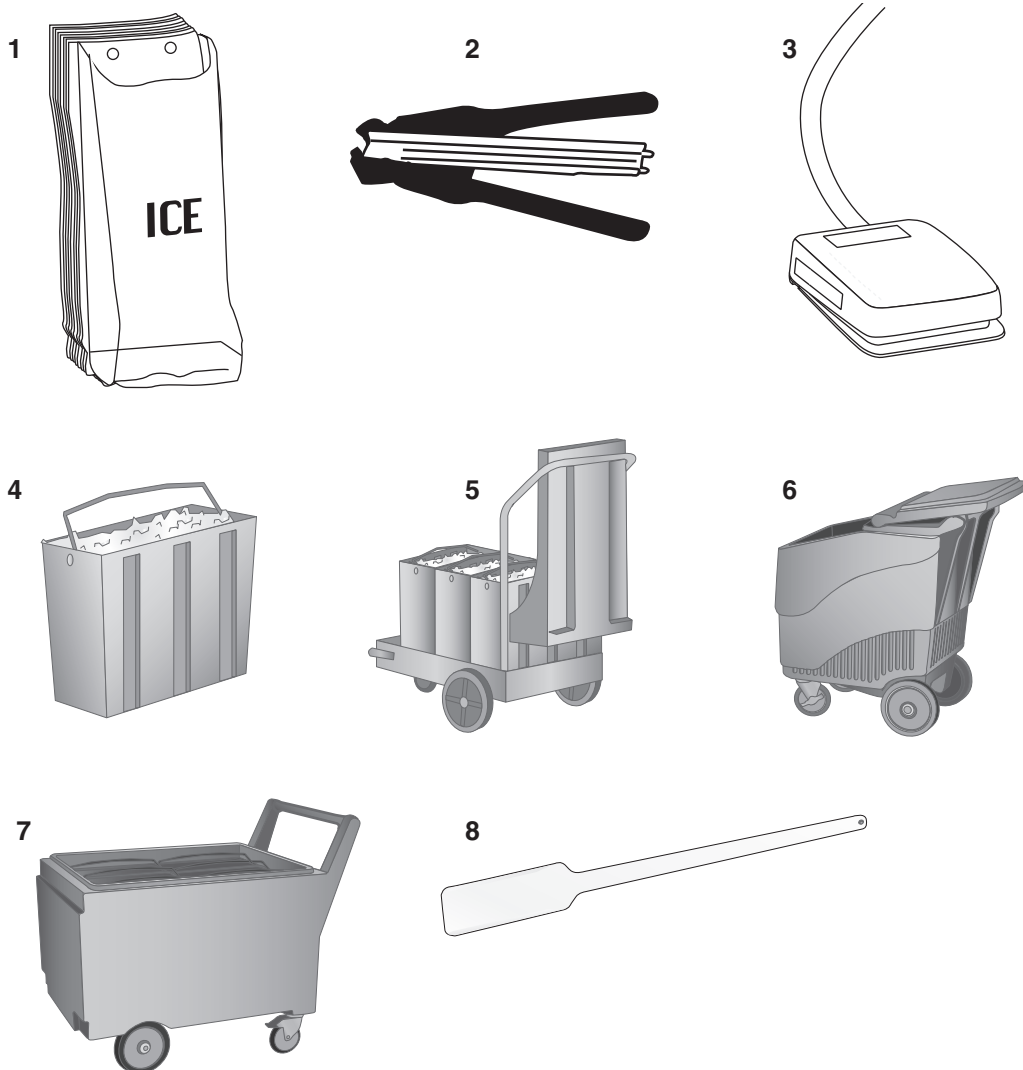
1. Check that ice is in the dispenser and that fused cubes are not causing a jam.
2. Check that circuit breaker and switches are in ON position. Display will show time setting.
3. Check that window is on securely. If window is ajar, dispenser will not operate. Display shows three dashes when window is ajar.
4. Check that the drain is clear.

Troubleshooting guide		
Symptom	Possible cause	Solution
Ice does not dispense	1. No ice in bin.	1. Check operation of icemaker.
	2. Dispense switch not closing.	2A. Press manual dispense to check operation.
		2B. Check LED's on board.
	3. Auger motor not operating.	3A. Check for power to motor.
		3B. Check LED's on board.
		3C. Check fuses for 220 V. (EDB 230V)
		3D. Check auger motor cable connection.
		3E. Check auger motor connection to board.
		3F. Check circuit breaker.
	4. Agitator motors not operating.	4A. Check for power at fuse block.
		4B. Press manual dispense. Display on VFD (Variable frequency drive – agitator motor controller) should show numbers. Check for loose connections.
		4C. Check for output from corresponding VFD.
Bags tear off pins during filling	5. Auger motor & agitator motors not operating.	5A. Check that window is in place. Display shows three dashes when window is removed.
		5B. Check interlock wires and connection.
More than one bag opens when blower is on	6. Optional foot pedal not operating.	6. Check for contact closure of switch inside foot pedal enclosure.
Bags won't open	1. Drip tray not adjusted properly.	1. Adjust drip tray to one notch above where bottom of bag contacts platform.
	2. Poor quality bags.	2. Try bags from another supplier.
More than one bag opens when blower is on	1. Stainless steel chute is not resting against bags.	1. Move chute lever to down position to position stainless steel chute against bags.
	2. Bag pins not centered.	2. Adjust bag pins so bags are centered under chute.
Bags won't open	1. Blower switch not on.	1. Press OPEN BAG. Blower turns off after 10 minutes without use.
	2. Blower duct missing or out of position.	2. Reinstall/re-position blower duct.
	3. No power to blower motor.	3A. Verify output LED lights on board.
		3B. Check for loose connections.
	4. Bag pins not centered.	4. Adjust bag pins so bags are centered under chute.
	5. Wet bags.	5. Install new wicket of bags.

If problems persist after following this basic troubleshooting guide, call Follett's technical service department at (800) 523-9361 or (610) 252-7301.

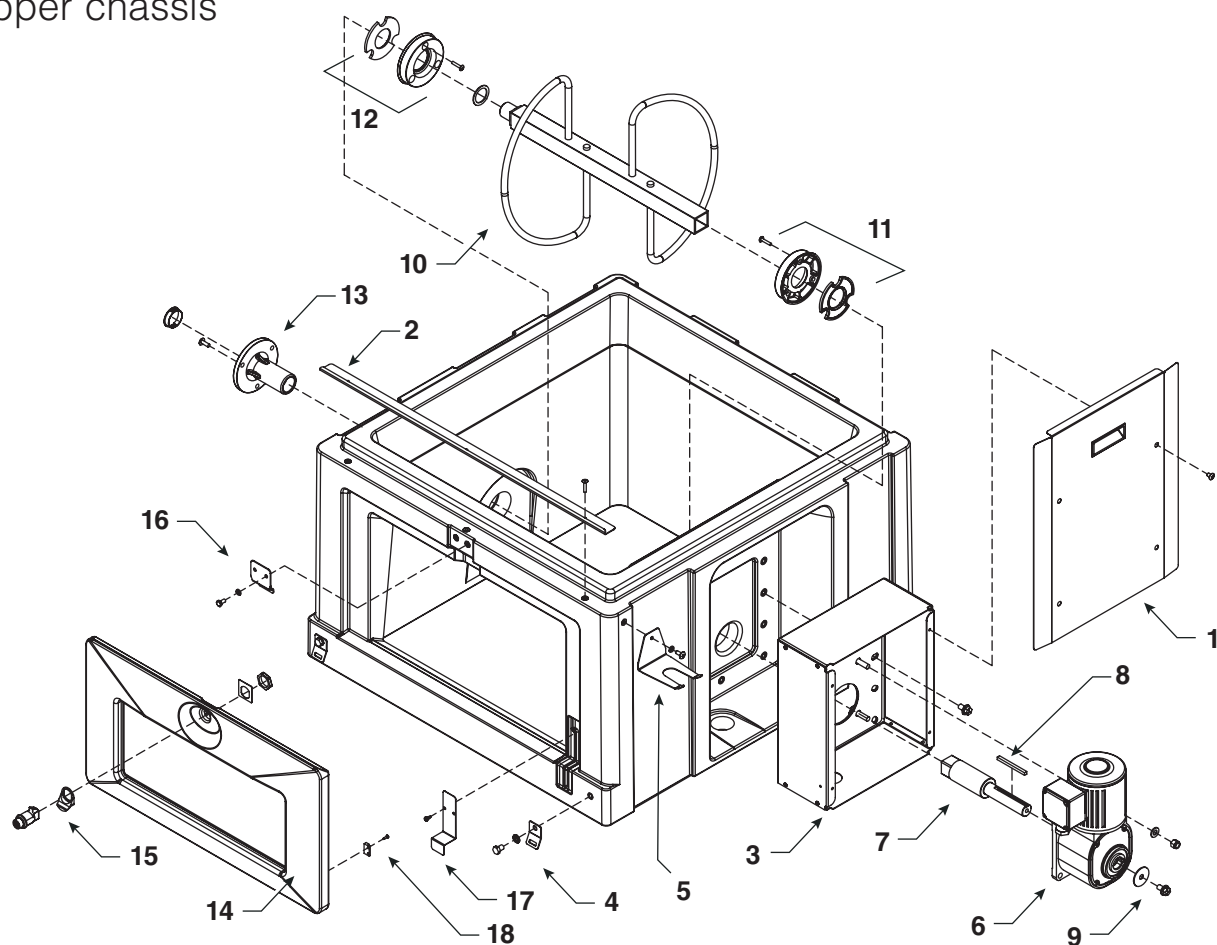
Replacement parts & accessories

Accessories



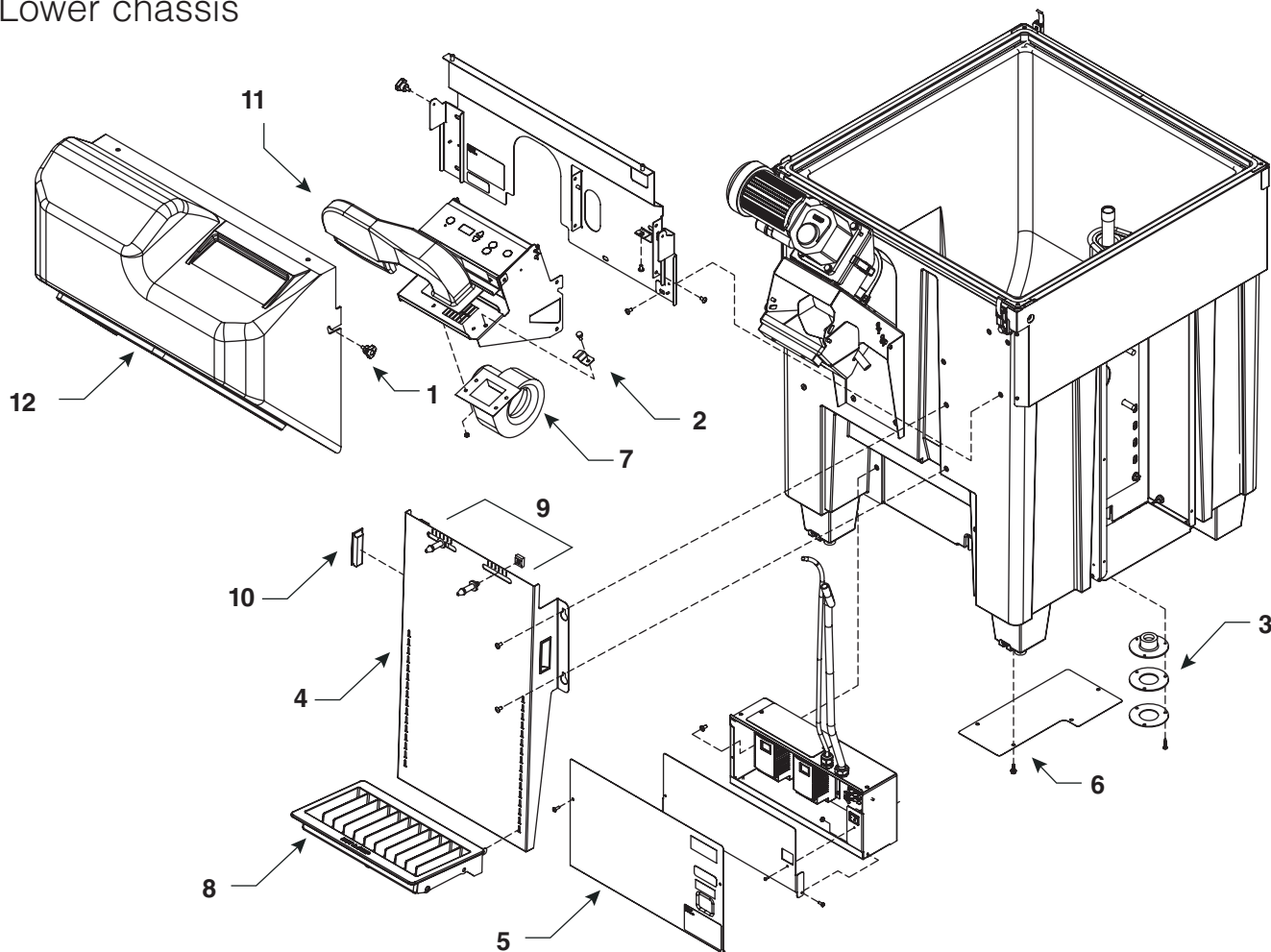
Reference #	Description	Part #
1	8 lb Bags, (case of 1000)	00116434
1	20 lb Bags, (case of 500)	00138370
2	Bostitch P-7 C-Ring Plier	00137711
Not Shown	Aluminum Blunt End C Rings (box of 2500)	00137729
3	Foot Pedal Control Accessory	00115055
4	Follett Totes™ Ice Carrier	206950
5	Follett SmartCart™ 75 ice cart	00112771
6	Follett SmartCart™ 125 ice cart	LSC125
7	Follett SmartCart 240™ ice cart	00122770
8	Ice Bin Paddle	PB502871
Not Shown	Cleaning Brush, DB650 (with bracket)	00924555

Upper chassis



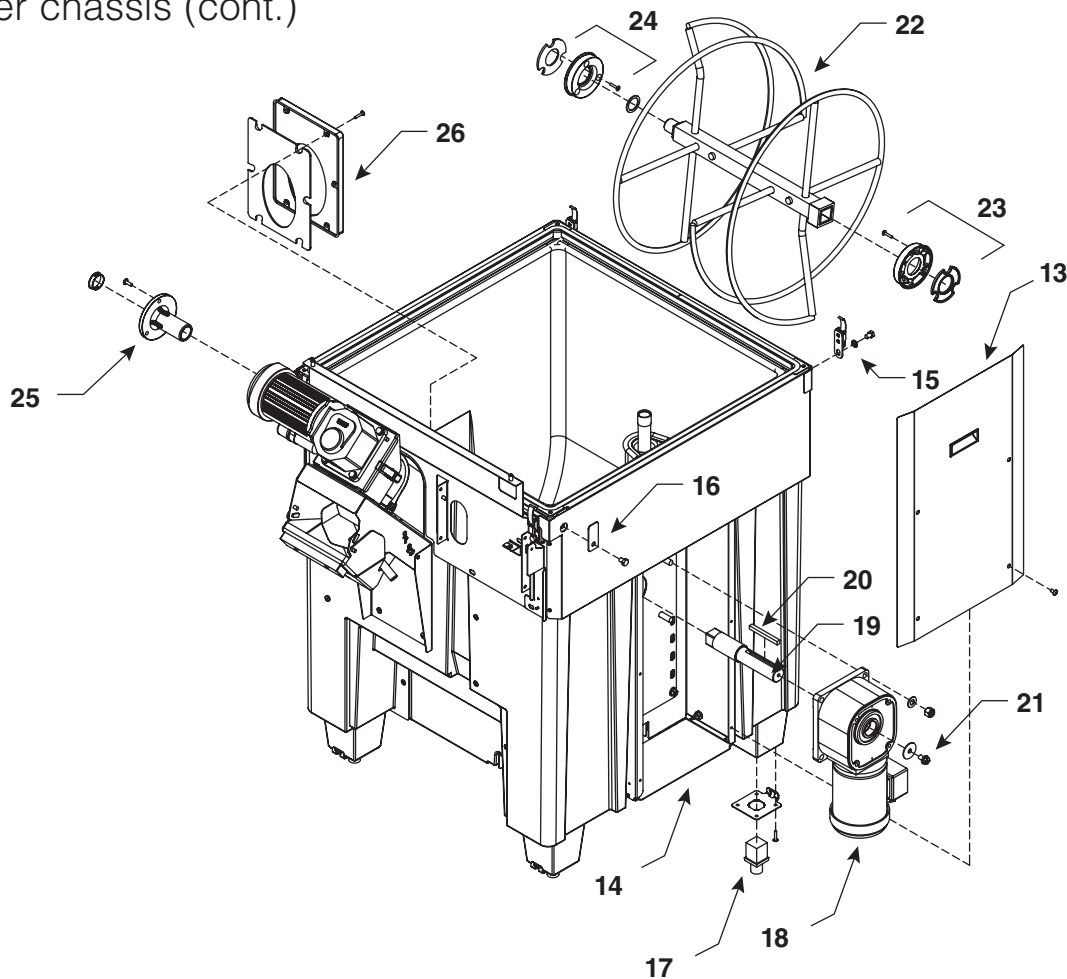
Reference #	Description	Part #
1	Cover, Upper Motor (with handle)	00924100
2	Guard, Drip Assy	00924118
3	Box, Upper Agitator Motor (with plates)	00924126
4	Catch, Upper Housing (one)	00924134
5	Brush Bracket	00924142
6	Motor, Upper Agitator (with cable)	00924209
7	Shaft, Upper Drive (with key)	00924217
8	Key, Upper Drive Shaft	00924225
9	Bolt, Upper Drive Shaft (with washer)	00924233
10	Agitator, Upper (with thrust washer)	00924308
11	Seal, Shaft, Upper Right Assy	00924316
12	Seal, Shaft, Upper Left Assy	00924324
13	Bearing, Upper Left (includes thrust washer)	00924332
14	Door, Bin Access (with latch and magnet)	00924506
15	Latch, Door Lock Assy	00924514
16	Plate, Door Strike (with hardware)	00924522
17	Sensor, Door Assy	00924530
18	Magnet, Door	00924548

Lower chassis



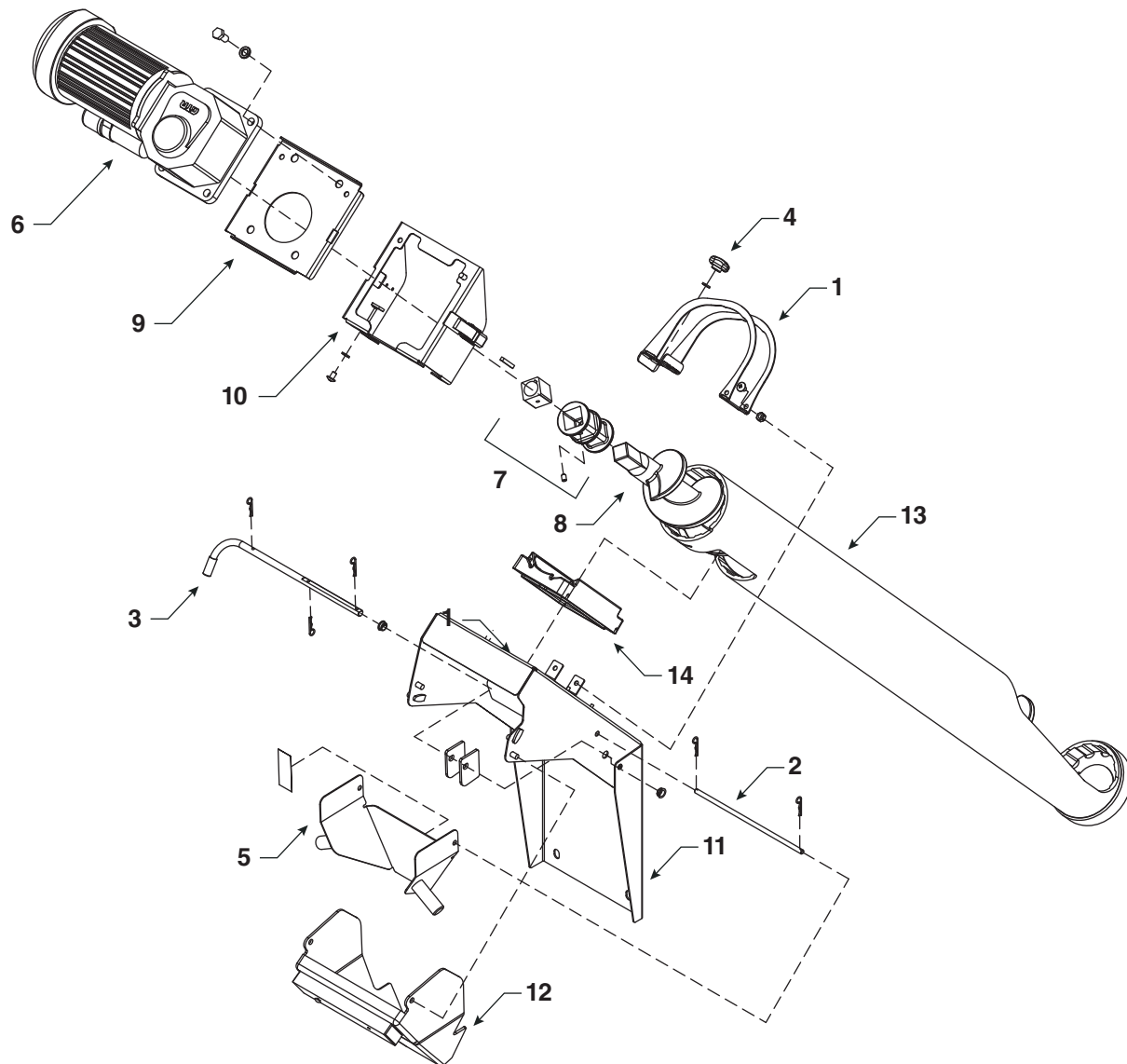
Reference #	Description	Part #
1	Knobs, Front Cover (two)	00925008
2	Clip, Blower Duct (with knurled nut)	00925016
3	Drain, Bin Assy	00925057
4	Frame, Bag Stand (with bag pins and handles)	00925115
5	Cover, Lower Control Box	00925156
6	Cover, Lower Cable	00925164
7	Blower Motor (with cable)	00925248
8	Drain Pan	00925503
9	Bag Pin Set	00925511
10	Handles (two)	00925529
11	Blower Duct	00925545
12	Front Cover	00925552

Lower chassis (cont.)



Reference #	Description	Part #
13	Cover, Lower Motor (with handle)	00925107
14	Box, Lower Agitator Motor (with plates)	00925123
15	Latch, Draw (one)	00925131
16	Plate, Guide (one)	00925149
17	Leg, Adjustable (one)	00925172
18	Motor, Lower Agitator (with cable)	00925206
19	Shaft, Lower Drive (with key)	00925214
20	Key, Lower Drive Shaft	00925222
21	Bolt, Lower Drive Shaft (with washer)	00925230
22	Agitator, Lower (with thrust washer)	00925305
23	Seal, Shaft, Lower Right Assy	00925313
24	Seal, Shaft, Lower Left Assy	00925321
25	Bearing, Lower Left (includes thrust washer)	00925339
26	Seal, Auger Tube Assy	00925537

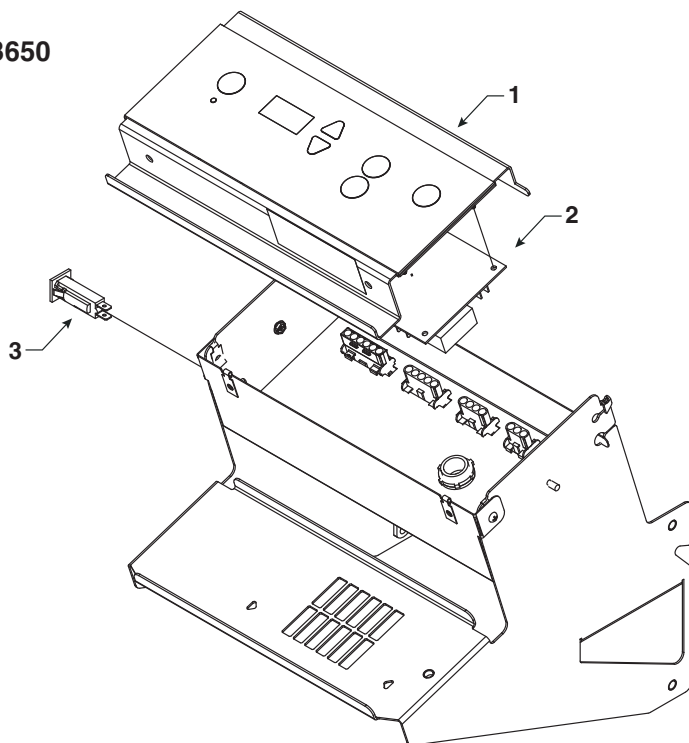
Dispense auger



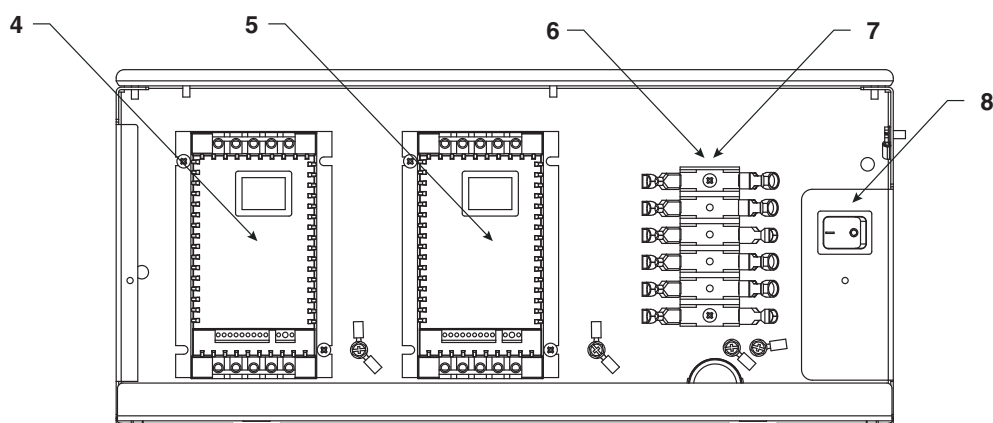
Reference #	Description	Part #
1	Clamp, Auger Tube Assy (with knob)	00925024
2	Pivot, Rear Chute Assy	00925032
3	Pivot, Front Chute Assy	00925040
4	Knob, Auger Clamp	00925065
5	Chute, Rear Stainless	00925180
6	Motor, Auger (with cable)	00925255
7	Coupling, Auger Drive Assy	00925263
8	Auger, DB650	00925347
9	Mount, Auger Motor (with bolts)	00925354
10	Frame, Auger Tube (with latches)	00925362
11	Frame, Dispense	00925370
12	Chute, Front Clear	00925560
13	Tube, Auger Assy	00925578
14	Cradle, Auger Tube	00925586

Electrical system, upper box

DB650 and EDB650



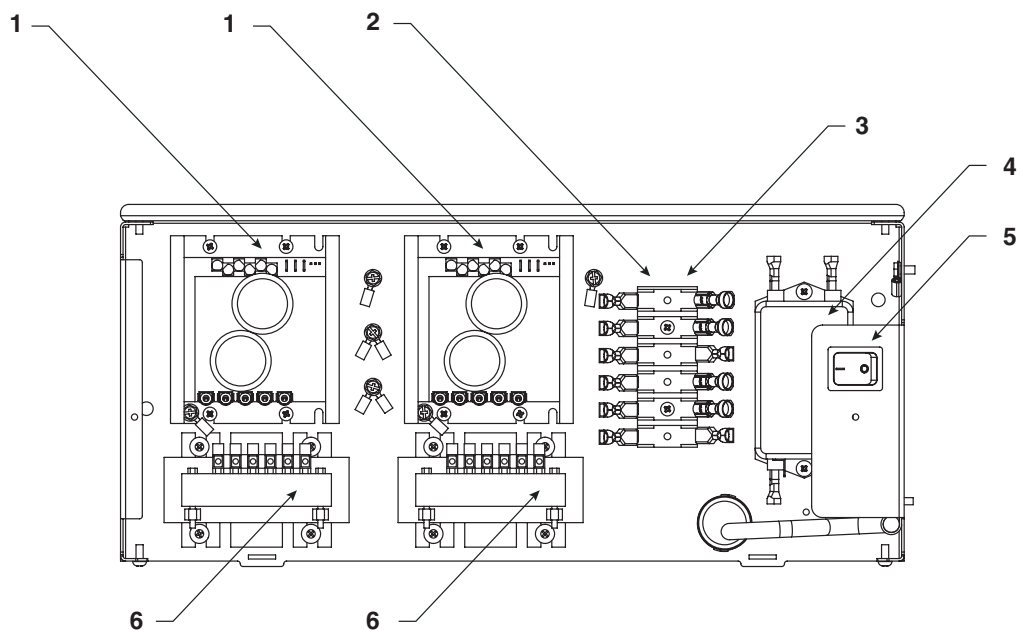
DB650 only



Reference #	Description	Part #
1	Control Panel (mounted on cover)	00924621
2	Circuit Board	00924639
3	Circuit Breaker	00924647
4	VFD Motor Controller, Lower Agitator, DB650	00925602
5	VFD Motor Controller, Upper Agitator, DB650	00924605
6	Fuse Block	00925610
7	Fuse, Kit (4 10-amp, 2 5-amp)	00925628
8	Switch, Rocker	00925636
Not shown	Wiring Harness, Agitator Motor	00924613

Electrical system, lower box

(EDB650 only)

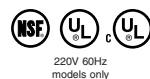


Reference #	Description	Part #
1	VFD Motor Controller, Upper and Lower Agitator, EDB650	00925651
2	Fuse Block	00925610
3	Fuse, Kit (4 10-amp, 2 5-amp)	00925628
4	Filter, Line	00925677
5	Switch, Rocker	00925636
6	Reactor, Line	00925685
Not shown	Wiring Harness, Agitator Motor	00924613

SmartCART and Totes are trademarks of Follett Corporation.
Chewblet is a registered trademark of Follett Corporation, registered in the US.
Follett reserves the right to change specifications at any time without obligation. Certifications may vary depending on country of origin.



801 Church Lane • Easton, PA 18040, USA
Toll free (800) 523-9361 • (610) 252-7301
Fax (610) 250-0696 • www.follettice.com



00913509R02
10/10