

Blend-In-Cup[®] (BIC) Manual Fill Beverage System

Installation, Operation and Maintenance Manual

Original Instructions — This manual is updated as new information and models are released.
Visit our website for the latest manual. www.manitowocbeverage.com/us



Safety Notices

As you work on Multiplex equipment, be sure to pay close attention to the safety notices in this manual. Disregarding the notices may lead to serious injury and/or damage to the equipment.

Throughout this manual, you will see the following types of safety notices:

Warning

Text in a Warning box alerts you to a potential personal injury situation. Be sure to read the Warning statement before proceeding, and work carefully.

Caution

Text in a Caution box alerts you to a situation in which you could damage the equipment. Be sure to read the Caution statement before proceeding, and work carefully.

Procedural Notices

As you work on Multiplex equipment, be sure to read the procedural notices in this manual. These notices supply helpful information which may assist you as you work.

Throughout this manual, you will see the following types of procedural notices:

Important

Text in an Important box provides you with information that may help you perform a procedure more efficiently. Disregarding this information will not cause damage or injury, but it may slow you down as you work.

NOTE: Text set off as a Note provides you with simple, but useful, extra information about the procedure you are performing.

Read These Before Proceeding:

Caution

Proper installation, care and maintenance are essential for maximum performance and trouble-free operation of your Multiplex equipment. Read and understand this manual. It contains valuable care and maintenance information. If you encounter problems not covered by this manual, do not proceed, contact Manitowoc Foodservice. We will be happy to provide assistance.

Important

Routine adjustments and maintenance procedures outlined in this manual are not covered by the warranty.

Warning

PERSONAL INJURY POTENTIAL

Do not operate equipment that has been misused, abused, neglected, damaged, or altered/modified from that of original manufactured specifications.

- All models intended for sale and use in Australia and New Zealand use only R-404A as a refrigerant. No flammable refrigerants are used.
- All models intended for sale and use in Australia and New Zealand are of climatic class 4.
- All models intended for sale and use in Australia and New Zealand use ecomate® as the insulation blowing gas which is nonflammable.

NOTE: SAVE THESE INSTRUCTIONS.

We reserve the right to make product improvements at any time. Specifications and design are subject to change without notice.

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Section 1

General Information

Read This Manual

Manitowoc Beverage Systems developed this manual as a reference guide for the owner/operator and installer of this equipment. Please read this manual before installation or operation of the machine. A qualified service technician must perform installation and start-up of this equipment. Consult **Section 5** within this manual for service assistance.

If you cannot correct the service problem, call your Service Agent or Distributor. Always have your model and serial number available when you call.

Your Service Agent _____

Service Agent Telephone Number _____

Your Local Distributor _____

Distributor Telephone Number _____

Model Number _____

Serial Number _____

Installation Date _____

About Blend-In-Cup

Class A: EMC Registration is done on this equipment for business use only (Class A). Product seller and user should notice that this equipment is not for household use.

The Blend-In-Cup beverage system is a self-contained dispensing unit that allows the operator to make flavor combinations of blended and non-blended drinks. It holds product flavoring in a refrigerated reach-in base enclosure, has a manual fill ice bin and includes one or two mixing modules.

The operator controls and accesses the unit using a lighted touch screen. Icons on the drink selection screens represent the primary flavor combinations for the drinks. There are multiple drink size options. Menu changes and additions are uploaded using a USB mass storage device and the Menu Connect Software platform.

On-screen instructions also include operator procedures for cleaning/sanitizing, checking inventory, replacing product bags, selecting drink sizes and manually preparing drinks. Managers and technicians have access to menu/software updates, diagnostics and other service screens.

Unit Inspection

Thoroughly inspect the unit upon delivery. Immediately report any damage that occurred during transportation to the delivery carrier. Request a written inspection report from a claims inspector to document any necessary claim. See "Pre-installation Checklist" on page 13.

⚠ Warning

Do not damage the refrigeration circuit when installing, maintaining or servicing the unit.

⚠ Warning

Do not operate equipment that has been misused, abused, neglected, damaged, or altered/modified from that of original manufactured specifications.

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 have been given supervision concerning use of the appliance by a person responsible for their safety.

Model Numbers

This manual covers the following models:

Blend-In-Cup Beverage Systems

MA-8-2, MA-8-2BF, MA-8-2AF

Serial Number Location

The Blend-In-Cup beverage system serial number is listed on the serial number decal affixed to the middle of the lower back panel. Another serial number decal is located on the right side of the machine.

		MT. PLEASANT, MI 48858	
MODEL NO:		SERIAL NO:	
ELEC REQ:			
		SYSTEM 1	SYSTEM 2
REFRIGERANT TYPE:			
REFRIGERANT AMOUNT:			
DESIGN PRESSURES			
HIGH SIDE:			
LOW SIDE:			
FOR PARTS OR SERVICE PLEASE CALL:			
			
MADE IN THE USA			

Sample Serial Tag

Warranty Information

Consult your local Service Agent or Representative for terms and conditions of your warranty. Your warranty specifically excludes all general adjustments, cleaning, accessories and related servicing.

Your warranty card must be returned to activate the warranty on this equipment. If a warranty card is not returned, the warranty period can begin when the equipment leaves the Manitowoc Beverage Systems factory.

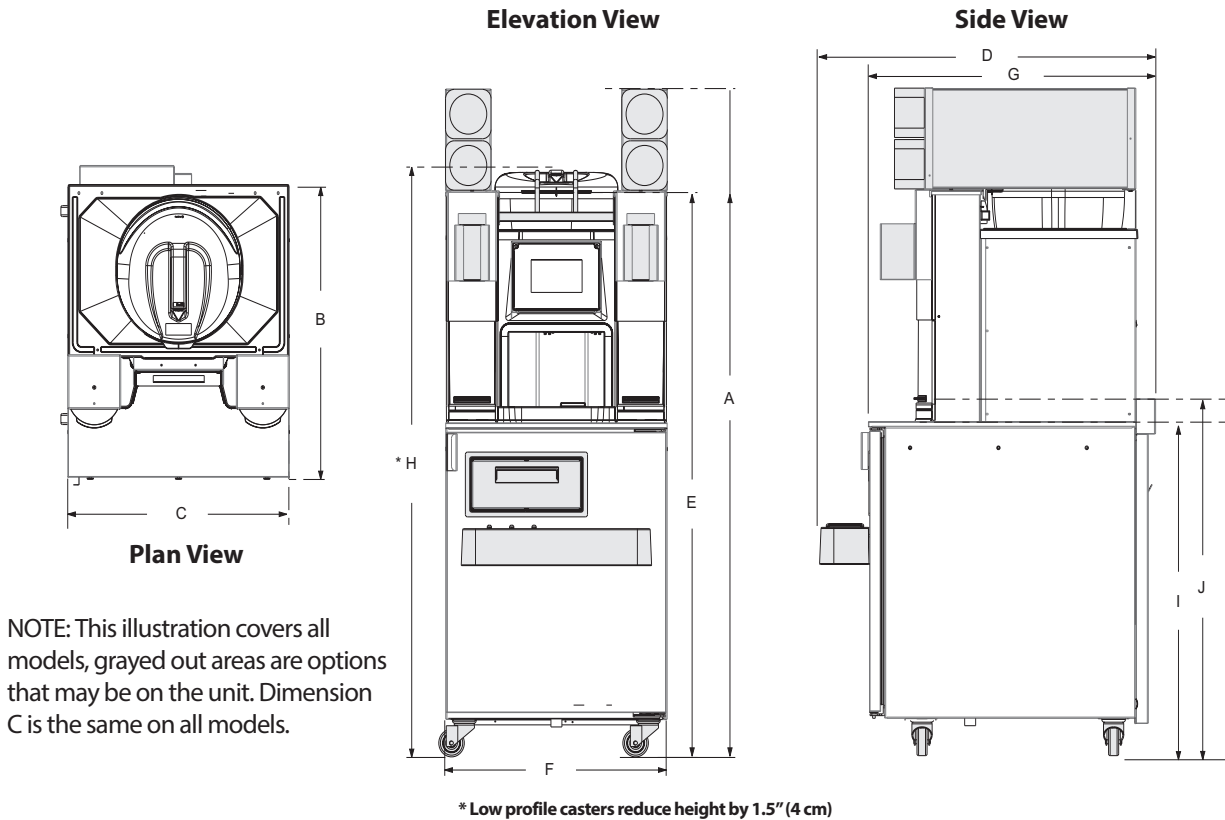
No equipment may be returned to Manitowoc Beverage Systems without a written Return Materials Authorization (RMA). Equipment returned without an RMA will be refused at Manitowoc Beverage System's dock and returned to the sender at the sender's expense.

Please contact your local distributor for return procedures. Full explanation of the Limited Warranty for Multiplex Blended Ice Machines can be found in the warranty statement shipped with the unit.

See "Limited Warranty" on page 71.

Specifications

DIMENSIONS



A	71.25" (181 cm)	C	26.00" (66 cm)	E	60.25" (153 cm)	G	33.74" (86 cm)	I	36.15" (92 cm)
B	32.82" (83 cm)	D	40.10" (102 cm)	F	26.00" (66 cm)	*H	63.48" (161 cm)	J	39.09" (99 cm)

⚠ Warning

To avoid instability the installation area must be capable of supporting the weight of the equipment and a full bin of ice. Additionally the equipment must be level side to side and front to back.

CAPACITY & WEIGHT

	Ice Capacity	HP	Max Product Bin Load	Shipping Weight	Empty Weight	Full Weight
Lower Cabinet	–	1/5	19.8 lbs (9 kg)	461 lbs (209 kg)	347 lbs (157 kg)	500 lbs (227 kg)
Ice Bin	23 lbs (10 kg)	–	–	Crated	Unpacked No Ice/Product	With Ice/Product

PRODUCT DELIVERY LOCATION

The location selected for the Blend-In-Cup Beverage System must meet the following criteria.

- The air temperature must be at least 40°F (4°C), but must not exceed 90°F (32°C), climate class 4.
- The location must not be near heat-generating equipment or in direct sunlight and must be protected from weather.
- Plain or Chilled Inlet Water Temperature:
min/max = 40°F / 90°F (4°C / 32°C).
- Always use the water supply line supplied when installing this appliance. Never reuse an old supply line.
- Verify floor of install location is level front to back, side to side.
- Keep equipment area clear of combustible material.

⚠ Warning

Carbon Dioxide (CO₂) displaces oxygen. Exposure to a high concentration of CO₂ gas causes tremors, which are followed rapidly by loss of consciousness and suffocation. If a CO₂ gas leak is suspected, particularly in a small area, immediately ventilate the area before repairing the leak. CO₂ lines and pumps must not be installed in an enclosed space. An enclosed space can be a cooler or small room or closet. This may include convenience stores with glass door self serve coolers. If you suspect CO₂ may build up in an area, venting of the B-I-B pumps and / or CO₂ monitors must be utilized.

Clearances

Top	18" (46 cm)
Sides	0" (0 cm)
Back	6" (15 cm)
Front	30" (76 cm)

⚠ Warning

Do not obstruct machine vents or openings.

Heat of Rejection

Models	Heat of Rejection BTU/h
R404a Base Cabinet (Cabinet 1)	2100

REFRIGERANT CHARGE**Important**

Due to continuous improvements, this information is for reference only. Please refer to the serial number tag to verify electrical data. Serial tag information overrides information listed on this page.

	R-404a
Lower Cabinet (Cabinet 1)	12 oz. (339 g)

ELECTRICAL**⚠ Warning**

All wiring must conform to local, state and national codes.

Minimum Circuit Ampacity

The minimum circuit ampacity is used to help select the wire size of the electrical supply. (Minimum circuit ampacity is not the Blend-In-Cup Beverage System's running amp load.) The wire size (or gauge) is also dependent upon location, materials used, length of run, etc., it must be determined by a qualified electrician.

Voltage

A dedicated electrical circuit is required, a power cord is provided with all units. Some models are available in different voltages and may be equipped with a different plug. Refer to Blend-In-Cup Beverage System Model/Serial Plate for voltage/ampereage specifications.

Minimum Circuit Amperage Chart**Important**

Due to continuous improvements, this information is for reference only. Please refer to the serial number tag to verify electrical data. Serial tag information overrides information listed on this page.

Model	Voltage/Cycle/ Phase	Total Amps	Breaker Size (Max)
MA-8-2	120/60/1	8.6	20A
MA-8-2BF	220/60/1	5.0	
MA-8-2AF	230-240/50/1		

Grounding Instructions**⚠ Warning**

The machine must be grounded in accordance with national and local electrical codes.

This appliance must be grounded. In the event of malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This appliance is equipped with a cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

Bonding Instructions (230-240V 50 Hz Models Only)

This appliance must be connected to the potential equalization system in accordance with EN60335-1 and EN60335-2-75. A bonding lug is provided on the lower right front corner of the appliance.

⚠ Warning

This machine must be connected to the potential equalization system.

⚠ Warning

When using electric appliances, basic precautions must always be followed, including the following:

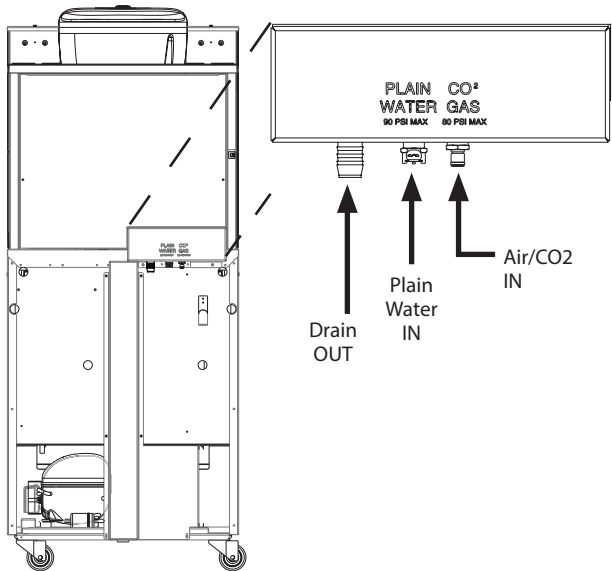
- A. Read all the instructions before using the appliance.
- B. To reduce the risk of injury, close supervision is necessary when an appliance is used near children.
- C. Do not contact moving parts.
- D. Only use attachments recommended or sold by the manufacturer.
- E. Do not use outdoors.
- F. For a cord-connected appliance, the following must be included:
 - Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord.
 - Unplug from outlet when not in use and before servicing or cleaning.
 - Do not operate any appliance with a damaged cord or plug, or after the appliance malfunctions or is dropped or damaged in any manner. Contact the nearest authorized service facility for examination, repair, or electrical or mechanical adjustment.
- G. Follow applicable lock out tag out procedures before working on equipment.
- H. Connect to a properly grounded outlet only. See Grounding Instructions.

AIR / CO₂, PLAIN & CHILLED WATER



Warning

Connect to a potable water supply only.



- Use supplied 3/8" (.95 cm) panel-mounted hose barb and 6' (1.8 m) of beverage tubing to connect labeled coupling body fitting(s) on back of unit for each supply connection.
- Do not connect either water connection to a hot water supply. Be sure all hot water restrictors installed for other equipment are working. (Check valves on sink faucets, dishwashers, etc.)
- Install a water shut-off valve in the water line at the rear of the machine.
- Insulate water inlet lines to prevent condensation.

Hard Water

In areas where the water is highly concentrated with minerals the water should be tested by a water treatment specialist, and the recommendations of the specialist regarding filtration and/or treatment should be followed.

SYSTEM PRESSURES

Supply to the Unit



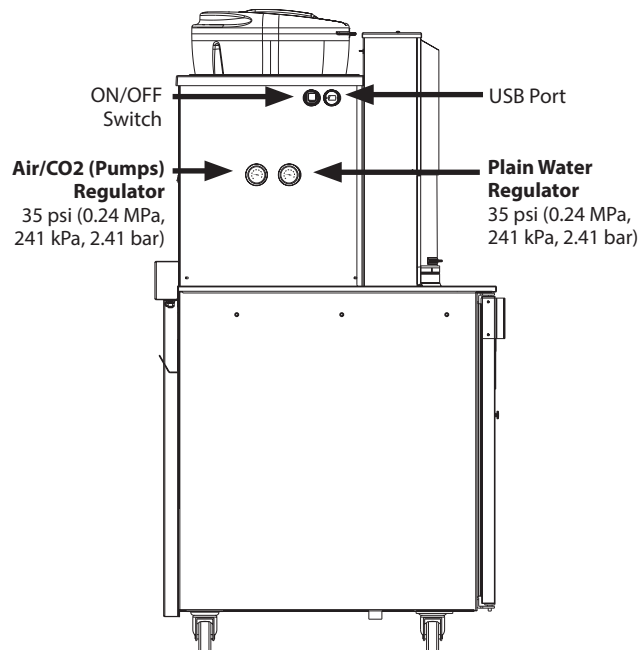
Warning

Do not supply more than 80 psi (0.551 MPa , 551 kPa, 5.51 bar) Air/CO₂ to the unit, excessive pressure to product pumps may cause failure.

This table shows the Minimum / Maximum supply of Water and Air/CO₂ required at the rear of the machine at no flow conditions.

	MINIMUM	MAXIMUM
Air / CO ₂ Supply	50 psi (.345 MPa , 345 kPa, 3.45 bar)	80 psi (0.551 MPa , 551 kPa, 5.51 bar)
Plain Water Supply	65 psi (0.448 MPa , 448 kPa, 4.48 bar)	90 psi (0.620 MPa , 620 kPa, 6.20 bar)

REGULATOR SETTINGS & LOCATION



Regulator Settings

Important

Air/CO₂ Requires the pressure measurement to be taken only when a product pump is being activated (product pump during flow conditions).

Important

Water requires the pressure measurement to be taken only when rinse water is spraying (flowing conditions) in a blender chamber.

Important

Water pressure affects the blender area cleaning, a water booster may be required if pressure is too low.

REGULATOR	SETTINGS (During Flowing Conditions)
Pumps Air / CO₂	35 psi (0.24 MPa, 241 kPa, 2.41 bar)
Plain Water	35 psi (0.24 MPa, 241 kPa, 2.41 bar)

DRAIN CONNECTIONS

- Connect supplied 1" ID hose to hose-barb connection on machine.
- Drain lines must have a 1.5 inch drop per 5 feet of run (2.5 cm per meter), and must not create traps.
- The floor drain must be large enough to accommodate drainage from all drains.
- An air gap is included in the design of the machine for back flow prevention. Plumb to local code.

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Section 2

Installation

Step-by-Step Installation

These instructions are provided to assist the qualified installer. Contact your Manitowoc Foodservice Service Agent or call Manitowoc Foodservice for information regarding start-up services.

Important

Failure to follow these installation guidelines may affect warranty coverage.

PRE-INSTALLATION CHECKLIST

- ☐ Keep product bags in a cooler at least 24 hours prior to installation.
- ☐ Any damage should be noted and reported to the delivering carrier immediately.
- ☐ Check the lower portion of the unit to be sure casters are not bent.
- ☐ Visually inspect the refrigeration package, compressor compartment housing. Be sure lines are secure and base is still intact.
- ☐ Inspect installation location behind the BIC for electrical outlet location, CO₂, water hose fittings, and shutoff.
- ☐ Check voltage at outlet dedicated for BIC.
- ☐ Verify floor of install location is level front to back, side to side and all casters are touching the floor.

Warning

The mass of this appliance will allow it to move uncontrolled on an inclined surface. Adequate means must be provided to prevent uncontrolled movement at all times.

- ☐ Remove the side panels from the unit to make the board connections, Air/CO₂ and Water Regulator gauges accessible.
- ☐ Check that board connections are secure and did not vibrate loose during shipment.
- ☐ Check that both micro switches are in line with the motor above the blenders.

CONNECTIONS

See "System Pressures" on page 10 and "Regulator Settings & Location" on page 11

1. Confirm correct orientation of Water and Air/CO₂ fittings.
2. The line set included with the unit should be equipped with male quick connect fitting(s) for the water supply line(s) and female quick connect fitting(s) for the Air/CO₂ supply line

Important

Leave enough slack in the water/CO₂/drain lines to allow access to the rear of the machine without disconnecting the lines.

REGULATOR	SETTINGS (During Flowing Conditions)
Pumps Air / CO₂	35 psi (0.24 MPa, 241 kPa, 2.41 bar)
Plain Water	35 psi (0.24 MPa, 241 kPa, 2.41 bar)

Important

Regulators are factory set but will need to be checked and possibly adjusted under flowing conditions once the unit is operational.

See "How to Check Product Pumps Air/CO₂ Pressure" on page 66 and "How to Check Plain Water Pressure" on page 67

3. Coil excess tubing and secure with tie straps.

Drain

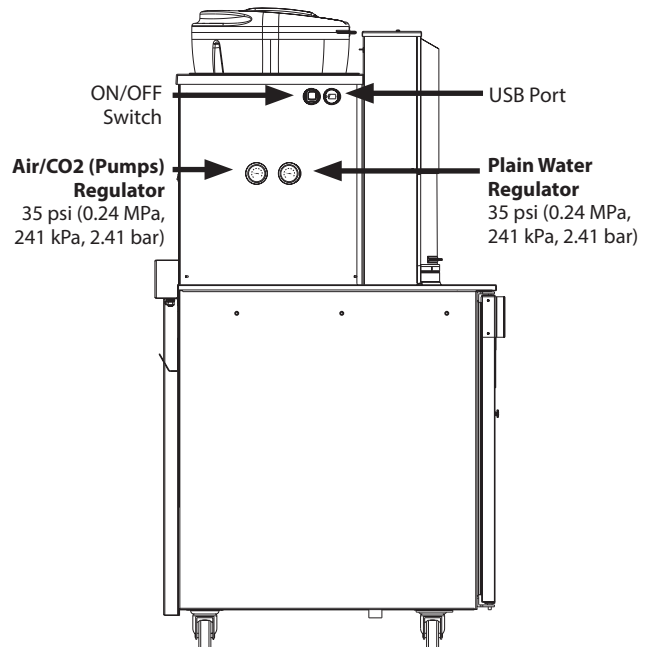
See "Drain Connections" on page 11

4. Route drain line (minimum 1" ID) to drain, maintaining a 2" (51 mm) air gap. Cut to proper length if needed (do not leave loops in drain).

Electrical

See "Electrical" on page 12

5. If all electrical and grounding requirements have been followed proceed to insert electrical plug from BIC into wall receptacle.
6. Turn power switch on the left hand side of the unit to the ON position.



7. The touch screen should energize and inform the user to perform Zone 2 & 3 cleaning before the unit can be put into operation. See "Start-up & Cleaning" on page 15

Important

Do not add product to the machine until cleaning and sanitizing are complete.

CHECKLIST

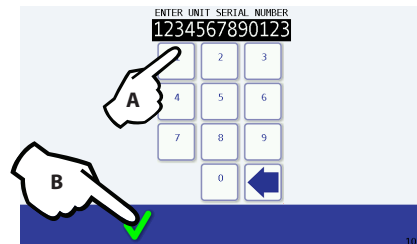
Review before proceeding with Start-Up & Cleaning.

- ☐ All internal packing has been removed?
- ☐ Have all of the electrical, water and CO₂ connections been made?
- ☐ Is there proper clearance around the machine for air circulation?
- ☐ Is the machine grounded / polarity correct?
- ☐ Has the machine been installed where the incoming water temperature will remain in the range of 40°F / 90°F (4°C / 32°C)?
- ☐ Have the regulators been properly set?
- ☐ Have the blender door(s) sensor position(s) been checked?
- ☐ Has the Power switch been turned to the ON position?

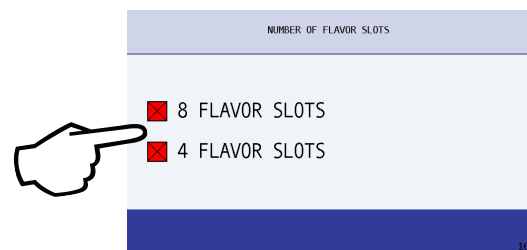
START-UP & CLEANING**Serial Number**

8. During the first start-up of the machine the installer will be asked to input the unit's 13 digit serial number.

- A. Enter the serial number.
- B. Press the green check to continue.

**Set Flavors & Mixers**

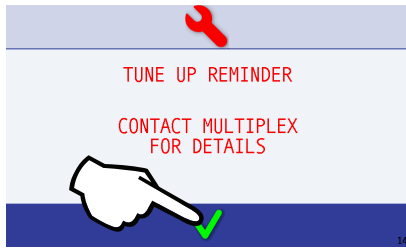
9. Installer must also choose the number of flavors and mixers to be configured before being granted access to the user interface.



NOTE: These can be changed later through the Manager's Menu if needed.

Tune-Up Reminder

10. The Tune-Up reminder screen will appear during initial installation, press the green check to continue.



11. The red wrench at the top of the screen and reminder will periodically popup until the installation date is set in the Managers Menu.

NOTE: This will be done once Start-Up and Cleaning have been completed.

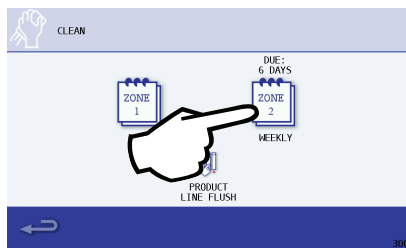
12. Press the Back Arrow in the lower left corner to access the Main Menu.



13. Select the Cleaning Icon.



14. Select Zone 2, Clean and sanitize the Blend-In-Cup machine by following the on screen instructions.



NOTE: See "Weekly Cleaning - Zone 2" on page 43. By doing so, the following will have been completed:

- All beverage lines, ice bin, dispense area, and blender chambers, cleaned and sanitized.
- Water run through the drain to verify it is draining properly.
- Verify all regulators are set correctly during cleaning.

NOTE: During the cleaning process is an ideal time to verify pressure regulator settings during flowing conditions. See "Regulator Settings & Location" on page 14

- Ice bin manually filled with ice. See "Manual Fill Ice" on page 34.
- Product bags retrieved from walk-in cooler, installed into the product bins and placed into their proper location in the cabinet. See "Procedure to Install a Product Bag" on page 32 & "Assigning Flavors" on page 28.
- All product lines primed and ready for use.

Label

- Add labels to product bins, put labels in correct place.
- Add labels anywhere else on the unit required.

Software

- Load recipes. See "Loading Recipes" on page 34.
- Verify correct drinks and flavors are available.



Drink Selection Screen

(Drink choices will vary depending on loaded recipe file)

Calibrate

See "Calibration Procedure" on page 29

19. Product calibration can be performed once operating temperature has been reached. Once completed, the Blend-In-Cup machine is ready for use.
20. Reinstall all side panels.
21. Push the BIC unit into place.
22. Verify the unit is level and shim if necessary.

Demonstrate

23. Demonstrate using the Interface. See "Touch Screens" on page 21.
24. Demonstrate how to make drink. See "Procedure to Make a Drink" on page 24.
25. Demonstrate Manager Menu options, using the default password. (The password can be changed.) See "Manager's Menu Screen" on page 27.
26. Set date and time to activate warranty.
27. Complete start-up form, sign, and have store manager sign form. (Fax to number on form.)

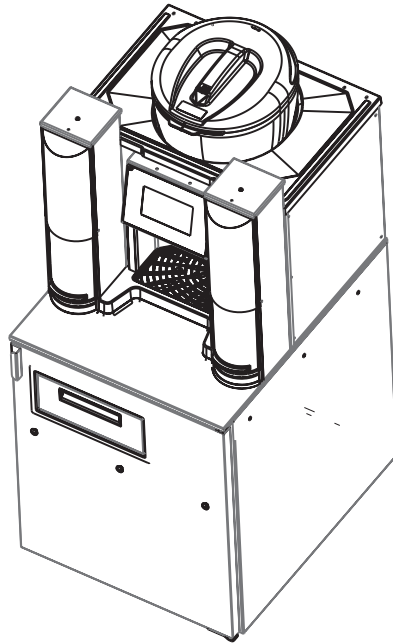
POST INSTALLATION CHECKLIST

- | | |
|--------------------------|--|
| ☐ | Has the machine been properly sanitized? |
| ☐ | Has each flavor been installed and primed? |
| ☐ | Has ice been added to the bin? |
| ☐ | Have the all regulators been correctly set during flowing conditions? |
| ☐ | Is the machine cycling ON/OFF on the temperature control? |
| ☐ | Has the owner/operator been instructed regarding maintenance procedures? |
| ☐ | Has the owner/operator completed the warranty registration card? |

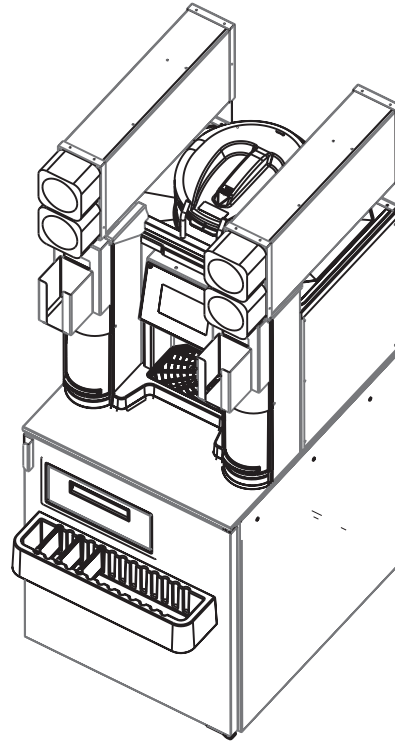
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Section 3 Operation

Sequence of Operation



**Dual Blend Chamber without
Cup Dispenser**



**Dual Blend Chamber with Top Mount
Cup Dispenser**

NORMAL OPERATION

Drink Selection screen appears after power-up of the unit. Operator presses one of the drink type buttons on the Drink Selection screen, and the Flavor Options screen appears. Once a flavor is selected, the Size screen appears. See "Procedure to Make a Drink" on page 24.

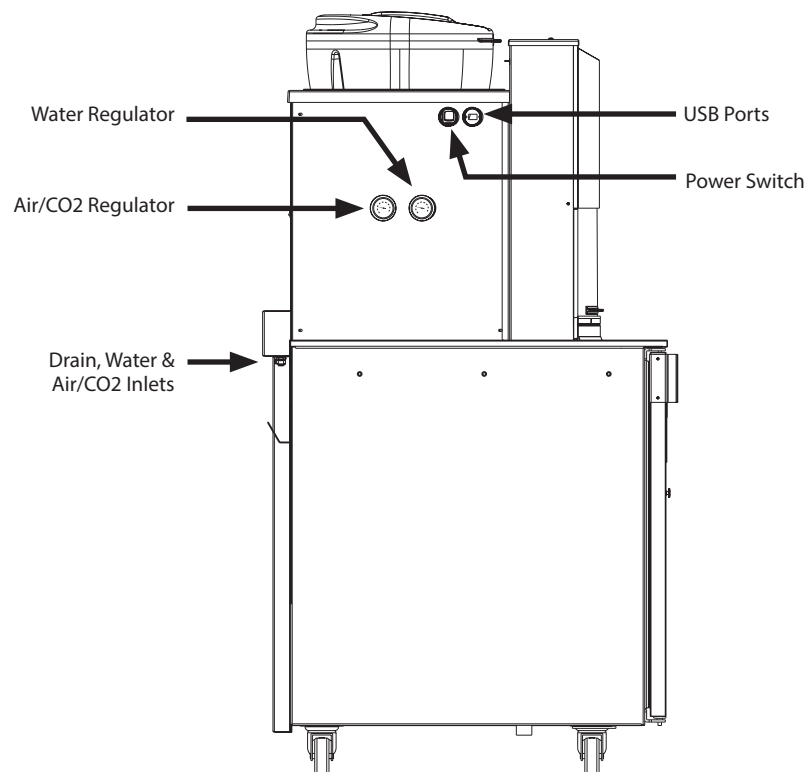
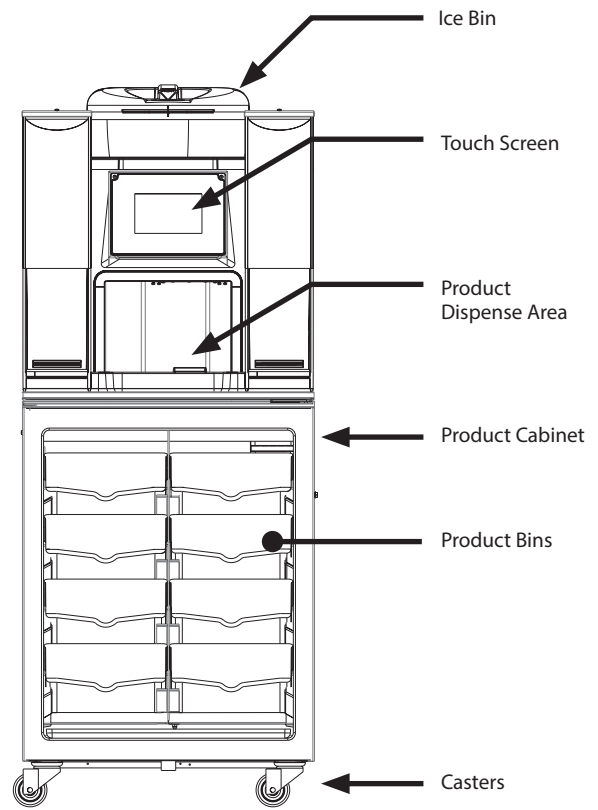
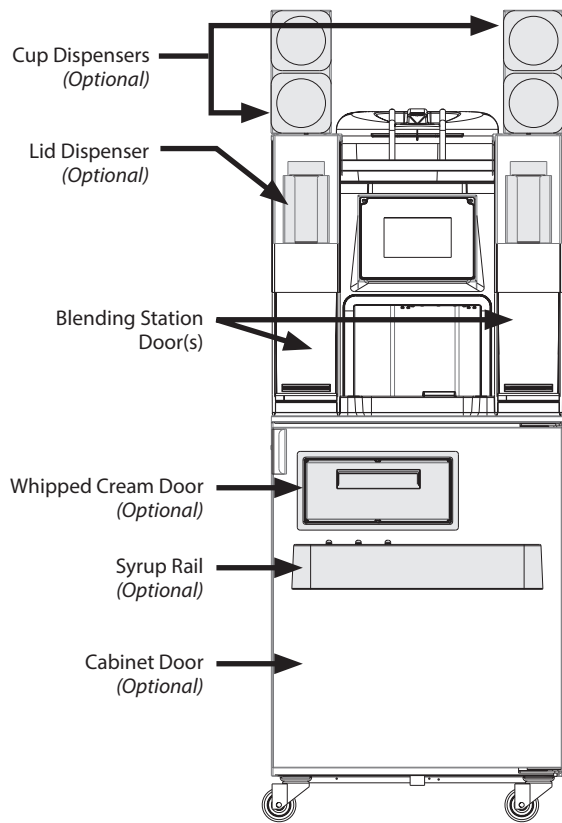
Next the drink preparation sequence commences. If add-ins are required for the drink, the user will be prompted. Here, according to the drink size selected and when initiated through the touch screen, the machine dispenses product and ice into the cup in the dispense area. The cup is then placed into an available blend chamber.

With the blend chamber door closed and after "Start Mixer" is selected on the touch screen, the machine blends the drink for the correct time at the proper blender speed. If add-ins are required for the drink after blending, the user will be prompted.

After the drink is removed and the operator closes the blend chamber door, the automatic rinse of the blender initiates. The Drink Selection screen re-appears.

Default Temperature Control Setting	36°F/2°C set point 2°F/1°C differential controlled by software
--	---

Component Identification

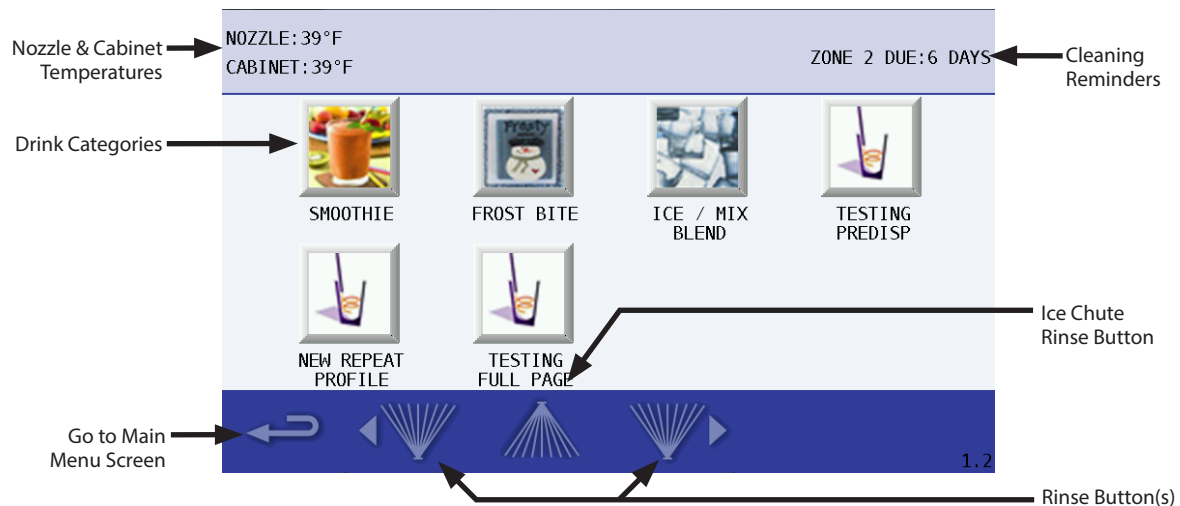


Touch Screens

The “easy ToUCH” screen has four selections. One is for the drink making procedure: Drink Selection displays by default at start-up. The Manager’s Menu is for accessing the machine’s settings. Inventory is for product information and Cleaning is for routine maintenance of the machine.

DRINK SELECTION SCREEN

The Drink Selection screen appears on power-up (except where clean/sanitize limitations have been exceeded, in which case the Cleaning screen appears). See “General Maintenance” on page 35 for Daily, Weekly and Monthly cleaning/sanitization. The Drink Selection screen’s primary function is to select a drink to make or to access the Main Menu.



How to Access

The Drink Selection screen displays by default unless cleaning is required. This screen can also be accessed through the main menu Book Icon.



NOTE: Available drink selections may vary depending on the recipe file installed.

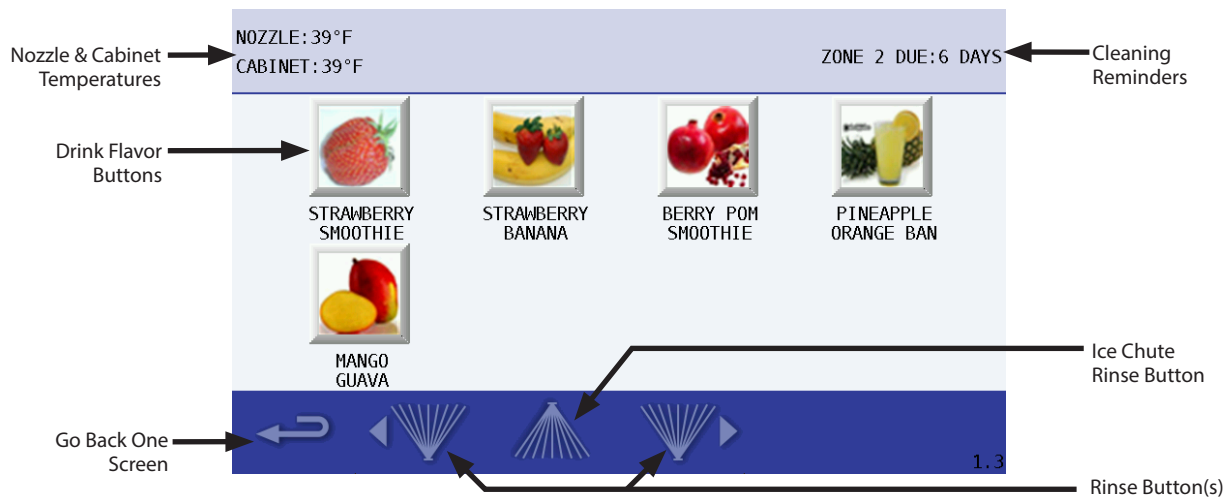
Icon Button Descriptions

- **NOZZLE & CABINET Temperatures**
Displays the current temperature for dispense point nozzle and the refrigeration cabinet. Unit of measure can be changed in the Manager’s Menu.
- **Drink Categories**
The main product categories are displayed left to right on the Drink Selection screen. Touching a category will display the drink flavor options available for the category.

- **Main Menu Arrow**
Navigates to the Main Menu screen.
(See “” on page 25)
- **Cleaning Reminders**
Displays the time remaining in days until ZONE 2 (Weekly) and ZONE 3* (Monthly) cleaning is required.
* If equipped with this feature.
- **Rinse Button(s)**
Press to rinse the left or right blender chambers. Blend chamber door(s) must be closed.
- **Ice Chute Rinse Button**
Press this button to rinse the ice chute if it becomes clogged. Repeat if necessary.

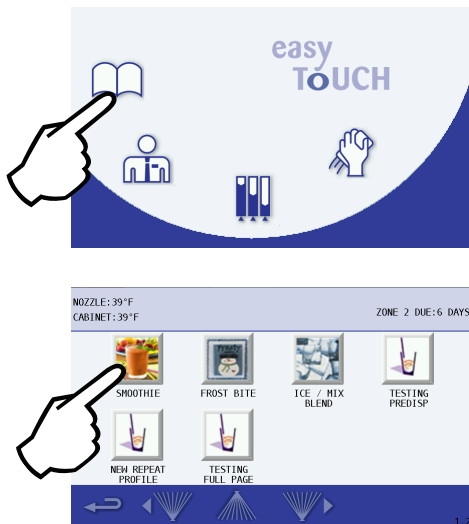
FLAVOR SELECTION SCREEN

The Flavor Selection screen appears after a Drink Selection has been made. Flavor options will vary depending on what recipes are configured on the unit. This screen's primary function is to select a drink flavor.



How to Access

The Flavor Selection screen displays after a drink selection has been made from the Drink Selection screen.



Icon Button Descriptions

- **NOZZLE & CABINET Temperatures**

Displays the current temperature for dispense point nozzle and the refrigeration cabinet. Unit of measure can be changed in the Manager's Menu.

- **Drink Flavor Buttons**

Flavor choices for the drink type that was selected.

- **Yellow Border**

If any of the drink ingredients will expire soon, the yogurt has expired, or there is less than 10% left in the product bag. Check the Product Inventory Screen for exact amount of product remaining. (See "Product Inventory Screen" on page 31)

- **Red Border**

Product expired, flavor selection unavailable. Will need to replace product bag. (See "Procedure to Install a Product Bag" on page 32)

NOTE: Available flavor selections may vary depending on the recipe file installed.

- **Back Arrow**

Navigates to previous Drink Selection screen. (See "Drink Selection Screen" on page 21)

- **Cleaning Reminders**

Displays the time remaining in days until ZONE 2 (Weekly) and ZONE 3* (Monthly) cleaning is required. * If equipped with this feature.

- **Rinse Button**

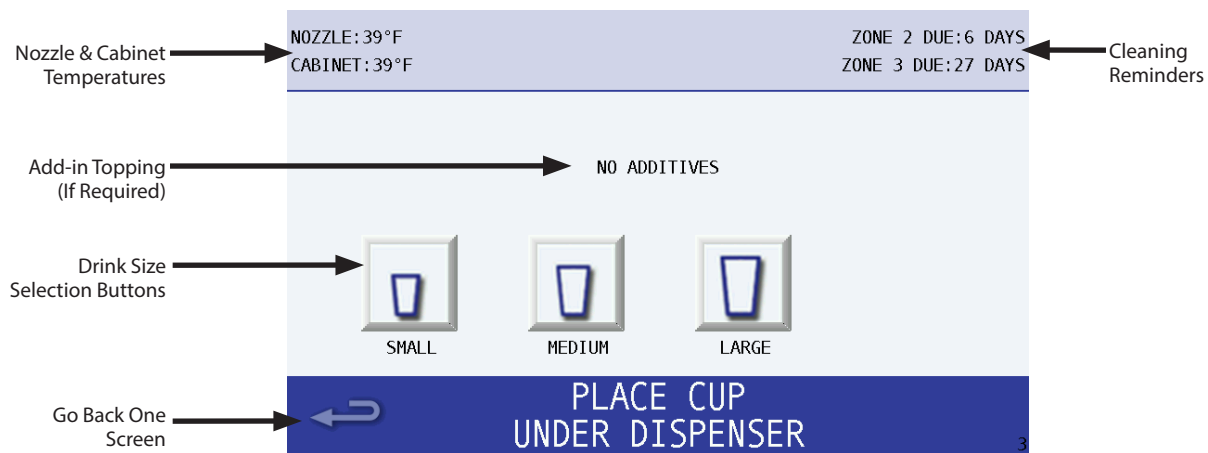
Press to rinse the left or right blender chambers. Blend chamber door(s) must be closed.

- **Ice Chute Rinse Button**

Press this button to rinse the ice chute if it becomes clogged. Repeat if necessary.

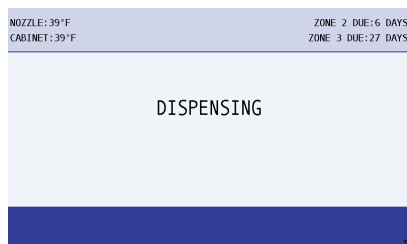
SIZE SCREEN

The Size screen appears after a drink flavor has been chosen from the Flavor Selection screen. This screen's primary function is to select size and make a drink. Optional Add-Ins are also performed through this screen if the drink requires them.



Icon Button Descriptions

- NOZZLE & CABINET Temperatures**
 Displays the current temperature for dispense point nozzle and the refrigeration cabinet. Unit of measure can be changed in the Manager's Menu.
- Add-Ins**
 These are not functioning buttons, only a graphic representation of the add-in used when making the selected drink. The screen will prompt the user when the add-in is to be added to the drink.
 NOTE: Not all drinks have an add-in. Drink add-ins may vary depending on the recipe file installed.
- Drink Size Buttons**
 Press a drink size (SMALL, MEDIUM, or LARGE) to start the drink making process.



NOTE: Make sure the correct cup is in place before pressing the drink size button, once one is selected the unit will start dispensing product and the screen will display "DISPENSING".



The screen will prompt to place cup in mixer when dispensing is complete and return to the Drink Selection screen while blending the drink. (See "Procedure to Make a Drink" on page 24)

- Back Arrow**
 Navigates to previous Flavor Selection screen. (See "Flavor Selection Screen" on page 22)
- Cleaning Reminders**
 Displays the time remaining in days until ZONE 2 (Weekly) and ZONE 3* (Monthly) cleaning is required.
** If equipped with this feature.*

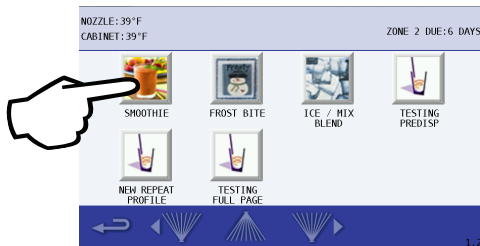
Procedure to Make a Drink

NOTE: Ice must be present in the ice bin, product must be connected and primed to produce a drink.

1. Press the Open Book icon.



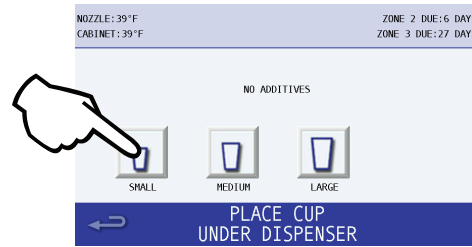
2. Select a category of drink recipes.



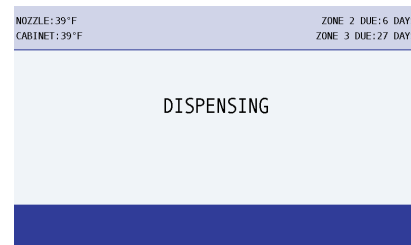
3. Specific drink combinations are displayed on the next screen. If a drink is not available, it will be highlighted with a red square around it. Unavailable flavors have expired and will need to be replaced. (See "Procedure to Install a Product Bag" on page 32)



4. Drink size is the next selection.



5. Place cup under center dispenser and press the corresponding drink size (SMALL, MEDIUM, or LARGE) to start the drink making process.



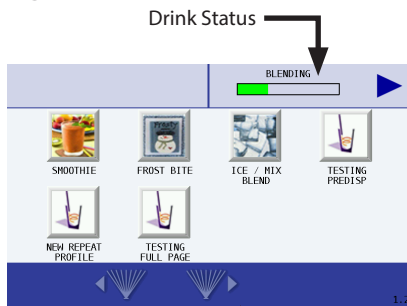
6. As the flavor dispenses into the cup, the screen will display DISPENSING.
7. If Add-in ingredients need to be manually added, the screen will give specific directions. More ingredients may be required later, follow the screen directions.



8. The screen will prompt you to use an available mixer, place the cup into the blender chamber, and shut the door. Press the corresponding right or left flashing green/blue arrow to mix the drink.

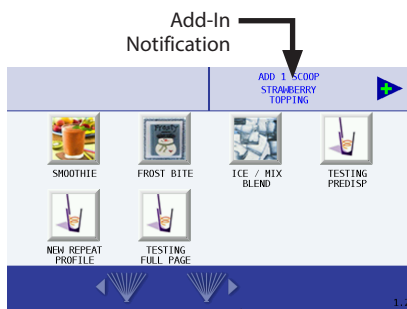
NOTE: Single mixer unit will only display a right arrow. Press the red X to cancel.

9. While the drink is mixing, the top of the screen will read **BLENDING**



NOTE: On dual mixer units, a second drink can be selected and blended simultaneously.

10. Follow all drink specific screen directions for add-ins if necessary and press the flashing arrow if prompted.



11. When the blender is done mixing, open the door and remove the drink. The blending station will go through a rinse cycle after the door is closed again.

NOTE: The blend station will not be available again until the door is closed and the rinse cycle is completed.

MAIN MENU SCREEN

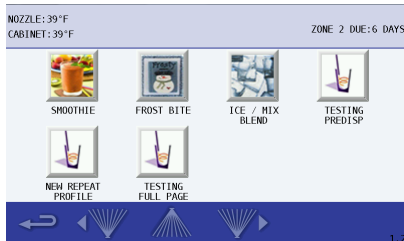
Accessed primarily through the Drink Selection screen, this screen's primary function is to provide access to all other procedures and adjustments that can be performed on the unit.



Category Icon Descriptions

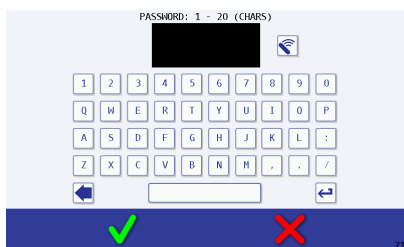
- **Drink Recipes Menu**

Displays the Drink Selection screen.
(See "Drink Selection Screen" on page 21)



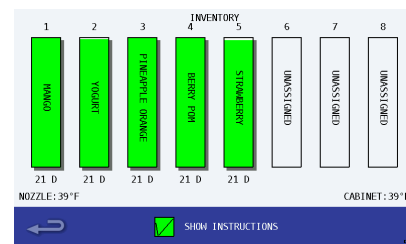
- **Managers Menu**

Displays a Password Keypad screen. When password is correctly entered, a menu of protected information for a manager will display.
(See "" on page 26)



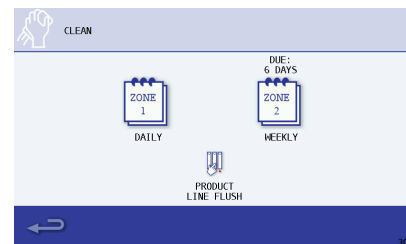
- **Inventory**

Displays the remaining percentage of product in each bag, and NOZZLE and CABINET temperature readings.
(See "Product Inventory Screen" on page 31)



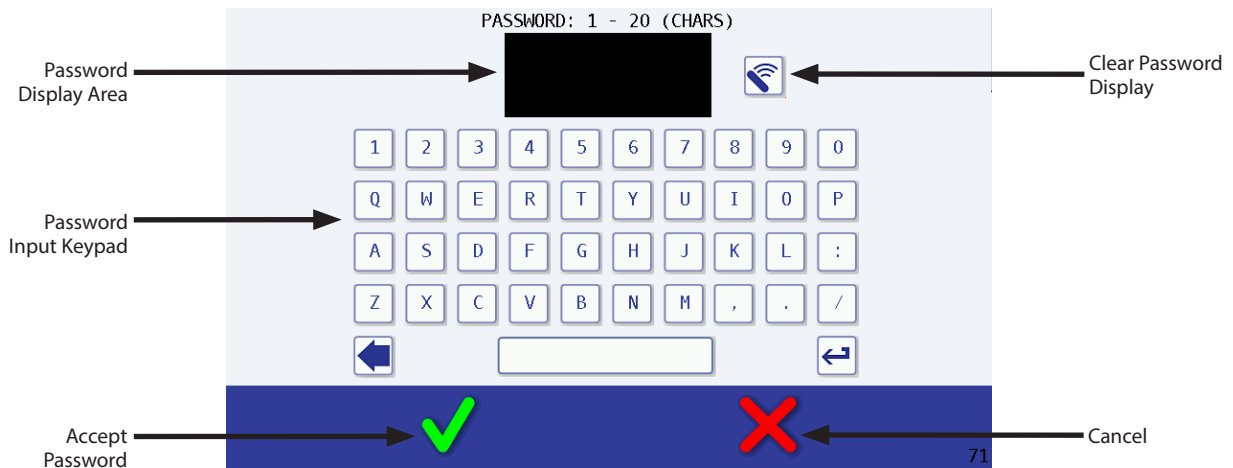
- **Cleaning**

Displays the Cleaning screen and gives the options for ZONE 1 (Daily), ZONE 2 (Weekly) cleaning, and PRODUCT LINE FLUSH.
(See "General Maintenance" on page 35)



MANAGER'S MENU SCREEN

Accessed through the Main Menu screen, this screen's primary function is to provide on-screen access to Manager-only functions.



How to Access



After selecting Manager's Menu icon from the Main Menu, the Password Keypad screen appears. The manager screens are password protected. Enter the Manager's pass code using the QWERTY keypad, then press the green check to accept.

After typing in the correct password, Language, Date/Time, Temperatures, Edit Password, Configure Slots, Updates, Auto Wash Timer and Service screens are accessible. When the manager screens are inactive for a time period, the screen will return to the drink menu.

Important

Do not change the language, edit the password or configure the slots unless instructed to do so by the factory. The service screen is password protected, contact the factory for access.

Manager Menu Features



Manager Menu Screens

- **Manager Screen 1**
 - LANGUAGE
 - DATE & TIME Settings
 - TEMPERATURES
 - EDIT PASSWORD
 - CONFIGURE SLOTS
- **Manager Screen 2**
 - UPDATES
 - AUTO WASH TIMER
 - SERVICE (Password Protected Sub Screens)
- **Manager Screen 3**

This screen displays all current software versions on the unit.
- **Manager Screen 4**

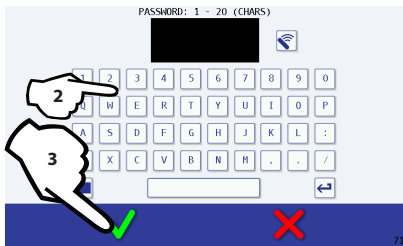
This screen displays the drink counter.

Assigning Flavors

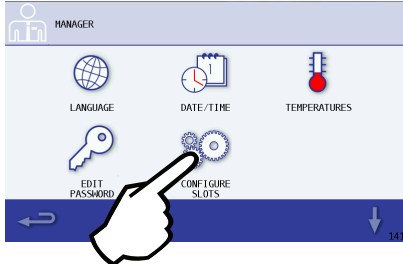
1. From the Main Menu select the Manager icon.



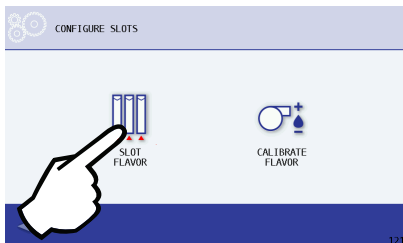
2. Type in the password.



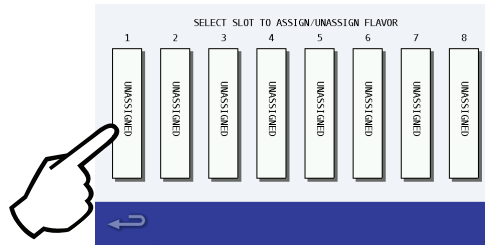
3. Select the green check.
4. Select CONFIGURE SLOTS.



5. Press the SLOT FLAVOR icon.



6. Select a slot you want to assign a flavor to.

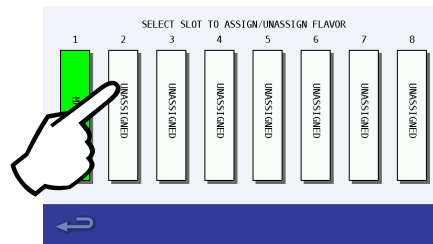


7. Select from available flavors.



NOTE: Available flavors will vary depending on the recipe file that is loaded on the machine. Select ASSIGN FLAVOR.

- Screen will return to the Select Slot screen.
 - The flavor name will now display and the slot will be highlighted green.
8. Continue to select slots and flavors until all required slots are assigned.



9. Select the Back Arrow when finished to return to the Configure Slots screen. Select the return arrow two (2) more times to return to the Main Menu.

NOTE: In order to dispense product a product bag must be loaded (See "Procedure to Install a Product Bag" on page 32) and calibrated (See "Calibration Procedure" on page 29).

CALIBRATION PROCEDURE

Important: Pre-calibration Checklist

- ☐ If calibrating ice, go to the Drink Menu and dispense 4 large cups of ice prior to calibrating.
- ☐ Check for empty product bags in the cabinet and replace if necessary.
- ☐ Ensure that each flavor has a bag more than 1/3 full.
- ☐ Check bag to ensure the spout is securely locked in position and the spout side of bag is facing down.
- ☐ Ensure product flavors to be calibrated have been refrigerated for 24 hours in a 34°F/1°C – 40°F/4°C environment and the product cabinet is at operating temperature 32°F/0°C – 34°F/1°C.
- ☐ Check Zone 2 cleaning was completed over 1 hour ago.
- ☐ Check CO₂/air pressure. If CO₂/Air pressure has changed, reset pressure to required level.
- ☐ Check that Machine has been turned on for at least 1 hour – Do not proceed with this check during peak time - Dispense 2 large cups of ice.

Gather the following supplies

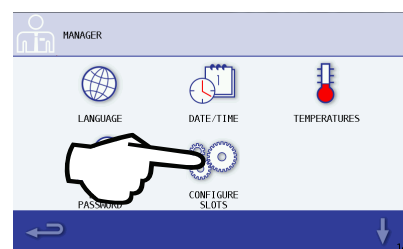
Digital Scale	
Empty & Clean Cups	

NOTE: Except for Water and Ice, a flavor must first be assigned and product bag loaded before a slot can be calibrated.

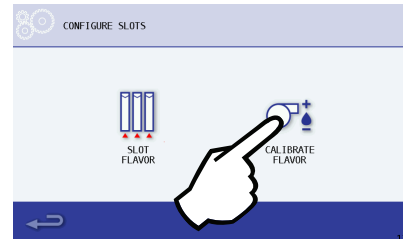
- From the Main Menu, select the Manager icon.



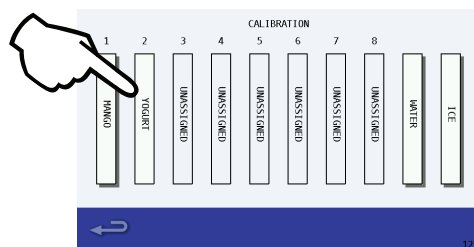
- Enter the manager's password.
- Select CONFIGURE SLOTS.



- Select CALIBRATE FLAVOR.



- Select a flavor, water or ice to calibrate.

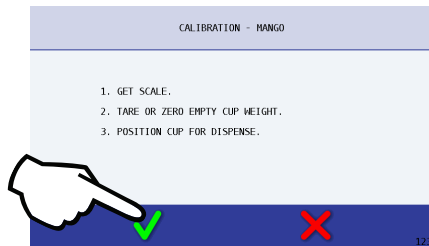


Selectable Flavors will have a drop shadow

NOTE: If a flavor cannot be selected the bag loading procedure must first be performed (See "Procedure to Install a Product Bag" on page 32).

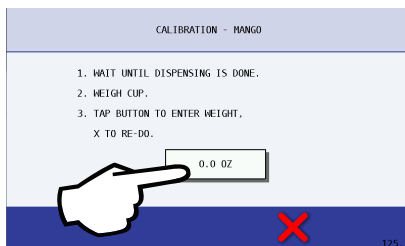
6. Follow the on-screen instructions and do the following:

- Get a digital scale.
- Tare empty cup weight.
- Position an empty cup for dispense.



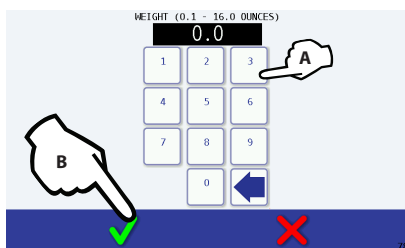
- Press Green Check when ready.

- A. Wait until dispensing is done.
- B. Weigh cup.
- C. Flavor and water target is 4 oz. (113 grams) +/- 10%. Ice target is 6 oz. (170 grams) +/- 10%.
- D. If weight is not within range, tap button to enter weight and continue to step 7.
- E. If weight is within range press the red X to exit and choose another flavor, water or ice to calibrate if needed.



7. The Enter Weight screen will appear.

- A. Enter the cup weight using the number pad.

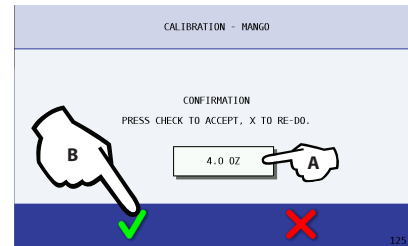


- B. Select the Green Check when done to continue.

NOTE: If the weight entered was not 4 oz. (113 grams) for a flavor/water or 6 oz. (170 grams) for ice, the unit will electronically adjust the dispense calibration based on the weight entered to obtain the correct target dispense weight. No mechanical adjustments are required.

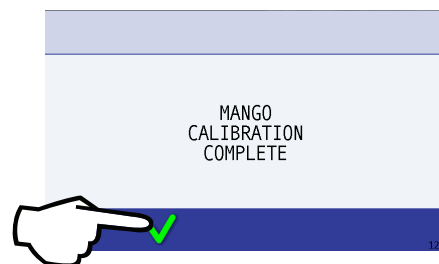
8. The calibration screen will display again with the weight entered on the previous screen.

- A. If the weight displayed is incorrect, press the button again and re-enter weight.



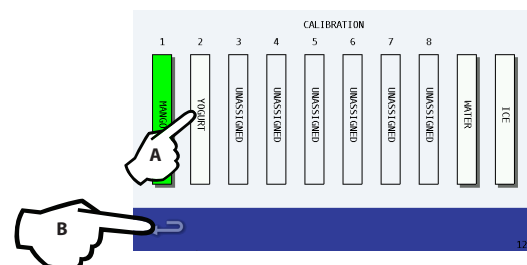
- B. Press Green Check when done to save and complete calibration for the slot.

9. The CALIBRATION COMPLETE screen will display.



- Press Green Check to return to the Calibration Slot Choice screen.

10. The newly calibrated slot will be highlighted in green.



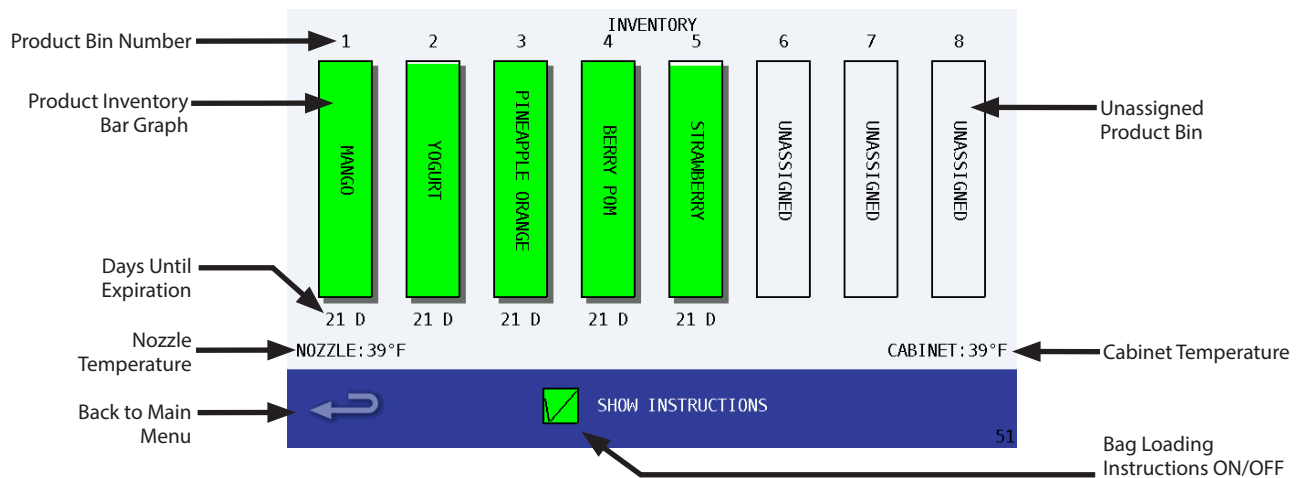
11. Repeat steps 5 - 6 to verify weight is within range.

12. Once weight is within range;

- A. Choose another flavor, water or ice to calibrate.
- B. Or press the Back Arrow to return to the CONFIGURE SLOTS Screen. From there press the back arrow twice to reach the Main Menu and place the unit into operation.

PRODUCT INVENTORY SCREEN

This screen's primary function is to provide visual product inventory information for the user. The Product Inventory screen is normally accessed through the Main Menu.



The inventory screen visually displays levels for all flavors. Underneath each flavor is the time remaining until the flavor expires in days. NOZZLE and CABINET temperatures are also on the inventory screen. When a flavor is touched on the screen, the instructions to replace a product bag will begin. (See "Procedure to Install a Product Bag" on page 32)

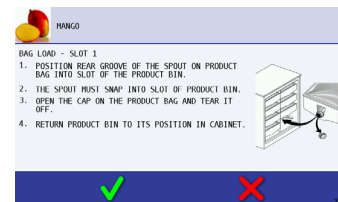
How to Access



Icon Button Descriptions

- **Product Bin Number**
Displays the product bin number the Product Inventory Bar Graph represents.
- **Product Inventory Bar Graph**
Product inventory tracking estimates the remaining flavoring in each product's bag in the reach-in compartment in 5% increments.
 - **Green Bar**
Product inventory is above 10% and not near expiration.
 - **Yellow Bar**
Product inventory has fallen below 10% or less than 24 hours until expiration, a message appears on the Drink Selection screen for the affected drink(s).
 - **Red Bar**
If the bar representing a product's inventory level is red, the bag is empty or expired. Replace product. (See "Procedure to Install a Product Bag" on page 32)
 - **UNASSIGNED**
If UNASSIGNED is displayed below the product bin number, no product is currently assigned to the bin.

- **NOZZLE Temperature**
Displays the current temperature near the dispense point. Can be set to Celsius or Fahrenheit in the Manager's Menu. (See "" on page 26)
- **Back Arrow**
Navigates to previous Main Menu screen.
- **Days Until Expiration**
Displays the number of days remaining until the product bag expires. Pressing the corresponding product bar graph will access the Replace Product screen, displaying the steps to follow for replacement. (See "Procedure to Install a Product Bag" on page 32)



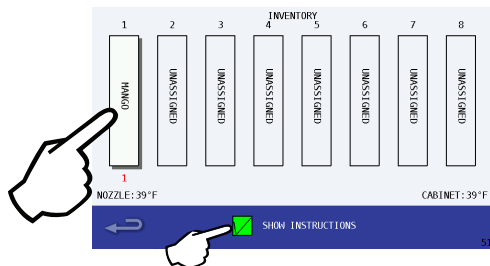
- **CABINET Temperature**
Displays the current temperature in the refrigeration cabinet. Can be set to Celsius or Fahrenheit in the Manager's Menu. (See "" on page 26)
- **Show Instructions**
 - ✓ = Show bag loading instructions on screen
 - ✗ = No instructions on screen.

Procedure to Install a Product Bag

1. From the Main Menu touch the Inventory icon.



2. On the Inventory screen, select the product to be installed.



NOTE: To see the on screen instructions during bag load the "Show Instructions" will need to be ON and displaying a green box with a check mark.

- Products with less than 10% inventory or less than 2 hours until product expires will be displayed with a yellow bar.
- Products that are expired will be displayed with a red bar.

3. Prepare unit for new product bag.

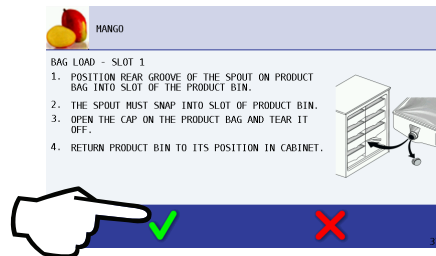
- Remove product bin from cabinet and discard empty bag if there is one.
- Wipe the inside of the product bin with a clean towel.
- Place new product bag with the spout facing down into product bin.
- Follow the on screen instructions.

4. Position rear groove of the spout on product bag into slot of the product bin.

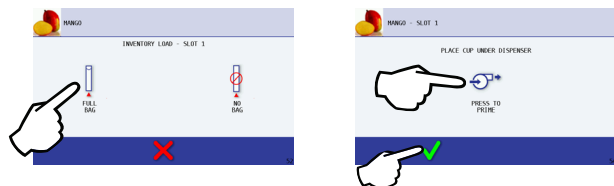
Important

The spout must snap into the slot of the product bin!

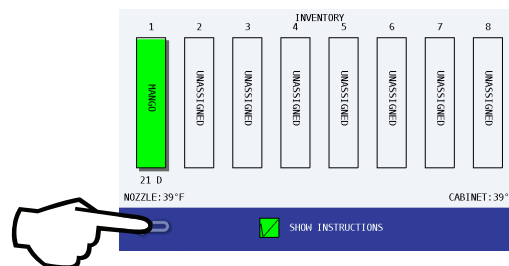
5. Open the cap on the product bag and tear it off.
6. Return product bin to its position in cabinet.



7. Press the Green Check to continue.
8. Select inventory level from FULL BAG or NO BAG.



9. Select FULL BAG when installing a new product bag and the Prime screen will display.
10. Place cup under dispenser and press the Prime icon to prime the line with the new product bag, DISPENSING will display on the screen. Repeat until product consistently flows into the cup.
11. Press the green check to continue.



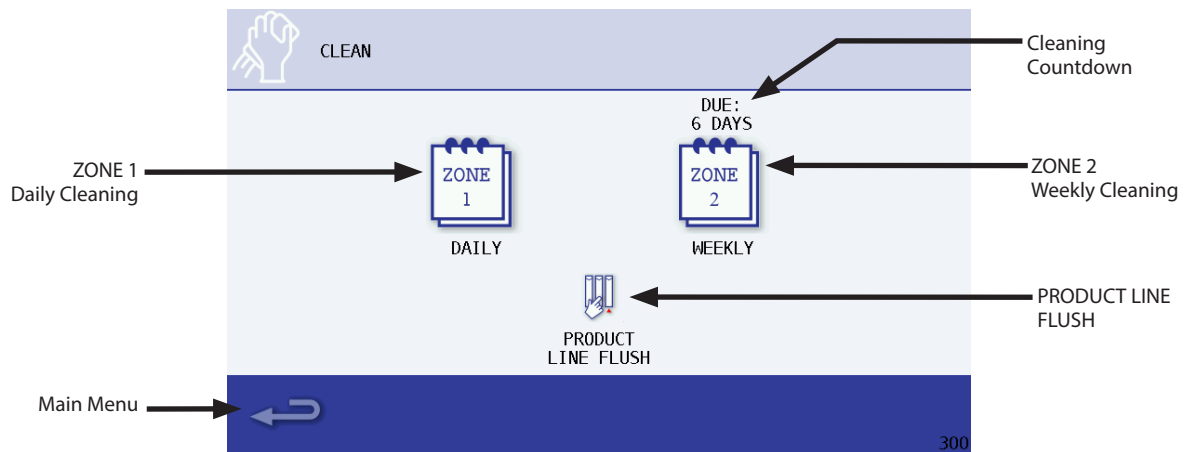
12. Installation is now complete. The inventory bar will now display full, green, and days until expiration will reset.
13. Select another product to be installed or return to the previously active screen by pressing the back arrow.

Important

Resetting a product's inventory without replacing the product bag will cause the Product Inventory screen, percentages, and expiration to be inaccurate.

CLEANING SCREEN

The Cleaning screen appears after selected from the Main Menu or when prompted to perform routine cleaning. This screen's primary function is to perform routine cleaning and sanitation of the machine.



How to Access



Icon Button Descriptions

- **ZONE 1 - Daily Cleaning**
Displays the Daily Cleaning screen and guides the user through all daily cleaning requirements. See "Daily Cleaning - Zone 1" on page 37.
- **ZONE 2 - Weekly Cleaning**
Displays the Weekly Cleaning screen and guides the user through all weekly cleaning requirements. See "Weekly Cleaning - Zone 2" on page 43.
- **Back Arrow**
Returns to the previous screen or Main Menu.

- **Cleaning Count Down**

Days left until Cleaning is required. Shown in DAY increments, changes to HOURS when there is less than a day (24 hours) until cleaning of the machine is required. Resets once cleaning has been completely performed.

Important

Once the time limit has been exceeded the machine will no longer make a drink until cleaning has been completed.

- **PRODUCT LINE FLUSH**

Displays the Product Line Flush screen and guides the user on how to flush all product lines. See "Calibration Procedure" on page 29.

Other Operations

LOADING RECIPES

Plug in the Flash drive (above upper left corner of screen). From the Main Menu select the Manager icon. Type in the password and select the green check. Select the down arrow to navigate to the next screen. Select UPDATES. Select "RECIPES". Select the "UPDATE RECIPES FROM USB" icon. Verify the version to be loaded is correct, and select the green check. Screen will display status and then "UPDATE COMPLETE".

MANUAL FILL ICE

Procedure to add ice to the Ice bin.

1. Remove lid from ice bin and set aside.
2. Using a clean/sanitized container transfer ice from the back room ice machine to the ice bin.
3. Pour the ice from the transfer container into the ice bin until it is full; do not overfill.
4. Replace ice bin lid and verify lid seats in place.
5. The lid must fit in place to activate the ice bin lid switch.

RECOMMENDED CUPS

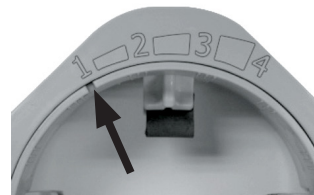
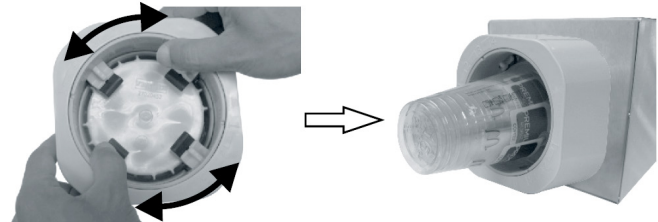
Although a variety of cups may work in the BIC machine, the most success (without cup cracking) has come from polyethylene (PETE) cups. Other varieties such as glass, polypropylene, and thick walled styrofoam have also proven workable. Cup thickness, material composition, diameter and cup height play an important role in the workability of the cup within the machine.

The following are cup general guidelines. Cups outside these parameters may work but are not recommended. Testing in the machine with the product will be necessary. Contact the Multiplex team for a detailed cup evaluation.

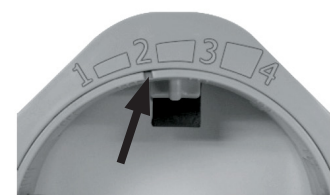
- Cup heights between 4.25" and 7.00".
- Cup opening diameter greater than 3.50" and less than 4.18".
- Cup base diameter greater than 2.38" and less than 2.62".
- Approved Materials - PET, PET-R, Glass & Metal

Changing the Cup Dispenser Size

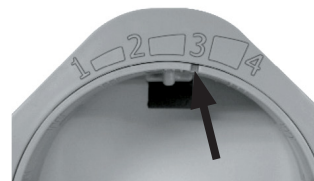
Turn the inner dial so that the notch sets at 1, 2, 3 or 4. Setting 1 will hold the smallest cup and 4 the largest cup. When the dial moves from 1 to 2, the dispenser fingers retract and allow for a larger cup to be inserted.



Position 1



Position 2



Position 3



Position 4

Section 4

Maintenance

General Maintenance

This section covers common unit components and their care.

The chart below is an overview of the maintenance that the end user and service technician should perform, and the frequency. These figures are the minimum required. If

the Ice Machine is supplied with hard water, more frequent cleaning should be performed. If the condenser air filter is totally blocked after one week, more frequent cleaning is recommended. (X = End User, S = Service Company)

Maintenance	Daily	Weekly	Monthly	3 Months	6 Months	Annual	After Prolonged Shutdown	At Start-Up
Blender / Dispense Area Cleaning/ Sanitizing (Zone 1 Cleaning)	X							
Product Line Cleaning & Sanitizing (Zone 2 Cleaning)		X					X	S
Drain Cleaning		X					X	
Clean Air Filters			X				X	
Clean Condenser Coil				X			X	
Ice Bin Wash	X							
Clean/Sanitize								
Inspect Ice Bin / Dispenser Parts*						S	X	S
Check Ice Quality	X	X				S	X	S

Warning

The power switch must be turned to OFF and the unit disconnected from the power source whenever performing service, maintenance functions or cleaning the refrigerated area

Important

If the machine going to be shut down for any length of time, it is recommended to go through the Zone 2 - Weekly Cleaning both prior to turning off the unit and when returned to use.

If the unit is turned off, the product will no longer be kept cool in the refrigeration cabinet. Remove all product bags and keep refrigerated to prevent spoilage.

DOOR GASKET MAINTENANCE

Door gaskets require regular cleaning to prevent mold and mildew buildup and also to retain the elasticity of the gasket. Gasket cleaning can be done with the use of warm soapy water. Avoid full strength cleaning products on gaskets as this can cause them to become brittle and crack. Never use sharp tools or knives to scrape or clean the gasket. Gaskets can be easily replaced and do not require the use of tools or an authorized service person. The gaskets are "Dart" style and can be pulled out of the groove in the door and new gaskets can be "pressed" back into place.

DRAIN MAINTENANCE - INSIDE LOWER CABINET

Each unit has a drain located inside the unit that removes the condensation from the evaporator coil and routes it to an external condensate evaporator pan. Each drain can become loose or disconnected during normal use. If you notice water accumulation on the inside of the unit, be sure the drain tube is connected to the evaporator drain pan. If water is collecting underneath the unit, make sure the end of the drain tube is in the condensate evaporator in the machine compartment. The leveling of the unit is important, as the units are designed to drain properly when level. Be sure all drain lines are free of obstructions.

REFRIGERATOR **Warning**

Do not damage the refrigeration circuit when installing, maintaining or servicing the unit.

The interior and exterior can be cleaned using soap and warm water. If this isn't sufficient, try ammonia and water or a nonabrasive liquid cleaner. When cleaning the exterior, always rub with the "grain" of the stainless steel to avoid marring the finish. Do not use an abrasive cleaner because it will scratch the stainless steel and can damage the breaker strips and gaskets.

STAINLESS STEEL CARE & CLEANING

To prevent discoloration or rust on stainless steel, several important steps need to be taken. First, we need to understand the properties of stainless steel. Stainless steel contains 70-80% iron, which will rust. It also contains 12-30% chromium, which forms an invisible passive film over the steel's surface, which acts as a shield against corrosion. As long as the protective layer is intact, the metal is still stainless. If the film is broken or contaminated, outside elements can begin to break down the steel and begin to form discoloration or rust. Proper cleaning of stainless steel requires soft cloths or plastic scouring pads!

 Warning

Never Use Steel Pads, Wire Brushes or Scrapers!

Cleaning solutions need to be alkaline-based or non-chloride cleaners. Any cleaner containing chlorides will damage the protective film of the stainless steel. Chlorides are also commonly found in hard water, salts, and household and industrial cleaners. If cleaners containing chlorides are used, be sure to rinse repeatedly and dry thoroughly. Routine cleaning of stainless steel can be done with soap and water. Extreme stains or grease should be cleaned with a non-abrasive cleaner and plastic scrub pad. Always rub with the grain of the steel. There are stainless steel cleaners available which can restore and preserve the finish of the steel's protective layer. Early signs of stainless steel breakdown are small pits and cracks. If this has begun, clean thoroughly and start to apply stainless steel cleaners in attempt to restore the passivity of the steel.

 Caution

Never use an acid-based cleaning solution! Many food products have an acidic content, which can deteriorate the finish. Be sure to clean the stainless steel surfaces of ALL food products. Common items include: tomatoes, peppers and other vegetables.

DOORS/HINGES

Over time and with heavy use, doors and hinges may become loose. If this happens, tighten the screws that mount the hinge brackets to the frame of the unit. Loose or sagging doors can cause the hinges to pull out of the frame, which may damage both the doors and the hinges. In some cases this may require qualified service agents or maintenance personnel to perform repairs.

NOTE: Do not place hot pans on/against the blue ABS liner. Do not throw items into the storage area. Failure to follow these recommendations could result in damage to the interior of the cabinet or to the blower coil. Overloading the storage area, restricting the airflow, and continuous opening and closing of the doors and drawers will hamper the unit's ability to maintain operational temperature.

PREVENTING BLOWER COIL CORROSION

Immediately wipe up all spills.

Daily Cleaning - Zone 1

NOTE: The following procedures are the basic daily cleaning instructions, on-screen instructions can vary depending on the recipe that was created with the MenuConnect program. ** These items are optional and may not be displayed on all easyToUCH screens during ZONE 1 Cleaning.*

Warning

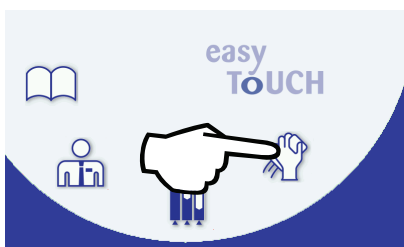
Sharp Objects/Surfaces - Beware of the shaver blade located in the bottom of the ice bin.

Warning

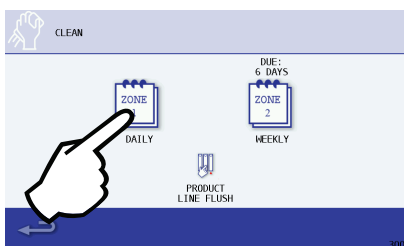
When in contact with cleaning and sanitizing solution chemicals gloves and safety glasses are recommended.

- Time to complete - 15 minutes

1. Cycle touch screen to the Main Menu and select the Cleaning icon.



2. In the Cleaning screen select the ZONE 1 icon.



GATHER THE FOLLOWING SUPPLIES

Follow the on-screen instructions and gather the following supplies:

Clean towels (Cloths*)	
Spray Cleaner & Detergent Solution (Approved mild dish detergent solution)	
Spray Sanitizer & Solution Approved sanitizers: Solution that provides 100 ppm available chlorine minimum. Or solution providing 300 ppm Quaternary Ammonium minimum. Or Manitowoc sanitizer part number 9405653, use 3.25 oz/5 gal (96 ml/19L).	
Red & Blue Cleaning Cups (1 of each per blender station)	
Ice Scoop	
Cleaning Brush, Gloves & Safety Glasses*	
<i>* These items are optional and may not be displayed on all easyToUCH screens.</i>	

NOTE: If other cleaners are used, it is possible they will not clean or sanitize your machine to NSF standards.

- Press the Down Arrow to continue.

ICE BIN WASH

Empty Ice Bin

1. Remove ice bin lid.

⚠ Warning

Sharp Objects/Surfaces - Beware of the shaver blade located in the bottom of the ice bin.

2. Use an ice scoop and an empty bucket to remove as much ice as possible from above the ice shelf.

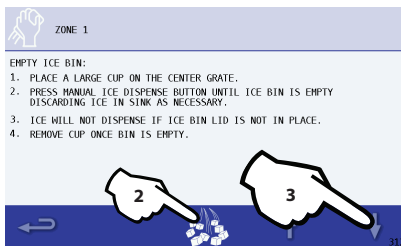


3. Replace ice bin lid.
 - Press the Down Arrow to continue.

Dispense Remaining Ice

1. Place a large cup on the center grate.
2. Press manual ice dispense button until ice bin is empty, discarding ice in sink as necessary.

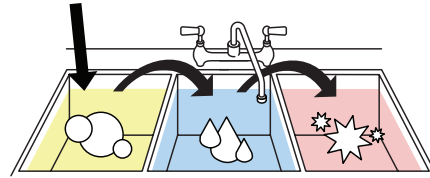
NOTE: Ice will not dispense if ice bin lid is not in place.



3. Remove cup once bin is empty.
 - Press the Down Arrow to continue.

Wash Lid & Ice Bin Ring

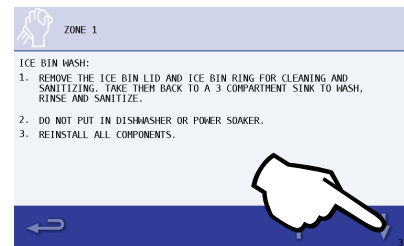
1. Remove the ice bin lid and ice bin ring for cleaning and sanitizing. Take them back to a 3 compartment sink to wash, rinse and sanitize.
2. **Do not put in dishwasher or power soaker.**



⚠ Warning

When in contact with cleaning and sanitizing solution chemicals gloves and safety glasses are recommended.

3. Reinstall all components.



- Press the Down Arrow to continue.

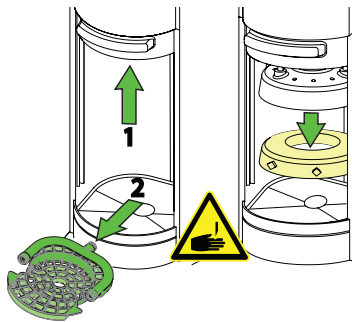
BLENDERS / DISPENSE AREA CLEANING & SANITIZING**Grate Removal / Blender Station Wash****⚠ Warning**

The blender station contains sharp moving parts. Wear gloves to protect hands.

Follow the on screen instructions:

- Put on gloves and safety glasses.*

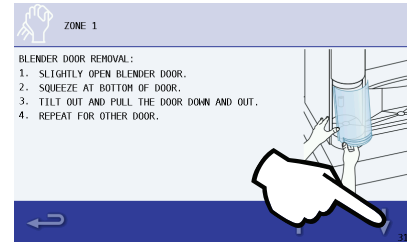
1. Remove grate from blender station(s) by pulling up and out.
2. Remove the cup cover seal from the cup cover by pushing on the front and pulling down.



3. Spray all surfaces inside of the blender station(s) with cleaning solution, then scrub thoroughly with approved cleaning brush.
4. Thoroughly wipe down all surfaces of blender station with a clean towel.
 - Press the Down Arrow.
5. Repeat for other side if applicable.
 - Press the Down Arrow. The Slide Progress screen will display while the blender(s) move into cleaning position.

Blender Door Removal

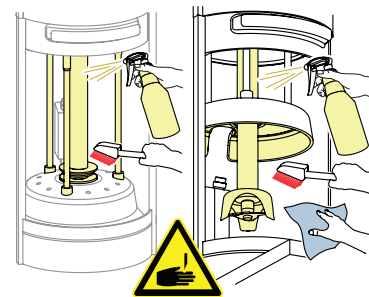
1. Slightly open blender door.
2. Squeeze at bottom of door.
3. Tilt out and pull the door down and out.
4. Repeat for other door if applicable.



- Press the Down Arrow to continue.

Blender Station Wash

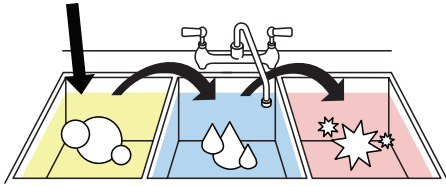
1. Completely spray blender station with cleaning solution use approved cleaning brush to thoroughly scrub the entire area.
2. Using the approved cleaning brush, thoroughly scrub down top of blender cap and blender arm.



3. Lift blender cap and thoroughly scrub (with approved cleaning brush) top of blade housing and bottom of blender cap.
4. Thoroughly spray with sanitizer solution and use approved cleaning brush scrub entire blender assembly.
5. Repeat for other side if applicable.
 - Press the Down Arrow to continue.

Wash Blender Grate(s) / Door(s)

1. Take all grates, cup cover seals, and doors to sink to wash and sanitize.
2. **Do not put in dishwasher or power soaker.**



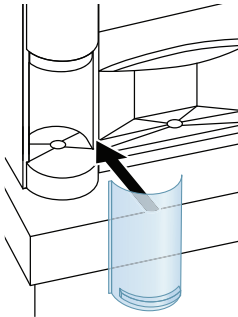
⚠ Warning

When in contact with cleaning and sanitizing solution chemicals gloves and safety glasses are recommended.

- Press the Down Arrow to continue.

Reinstall Blender Door(s)

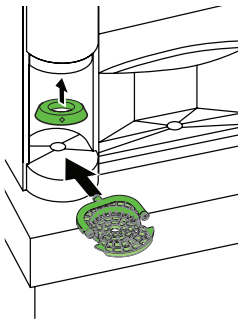
1. Reinstall blender door(s).



- Press the Down Arrow. The Slide Progress screen will display and the blender(s) will move into operating position.

Reinstall Blender Grate(s)

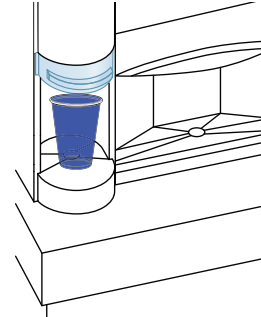
1. Reinstall blender grate(s) and cup cover(s).



- Press the Down Arrow.

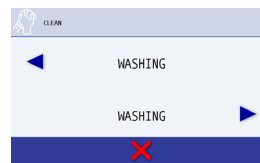
Blender Wash

1. Place blue cleaning cup with wash solution in blend chamber(s) and close the blender door(s).
 - Use approved mild dish detergent solution.



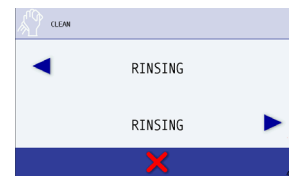
2. Press the Green Check to begin.

The blenders will lower into the wash solution and spin to clean. WASHING will display on the screen.



Follow the on screen instruction, when prompted remove the blue cup(s) and pour wash solution down the drain.

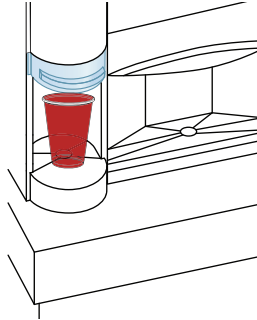
Close the blender door(s) and RINSING will display on the screen while the machine rinses the blenders.



FINISHED will display on the screen then progress to the Blender Sanitizing screen.

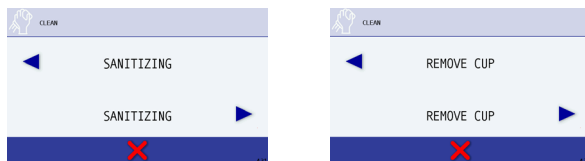
Blender Sanitizing

1. Place red sanitizing cup(s) with sanitizing solution in blender station(s) and close the blender door(s).
 - Use approved sanitizer solution.

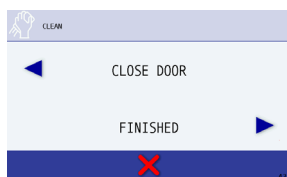


2. Press the Green Check to begin.

The blenders will lower into the wash solution and spin to sanitize. SANITIZE will display on the screen.



Follow the on screen instruction, when prompted remove the red cup(s) and pour sanitizing solution down the drain. Close the blender door(s).



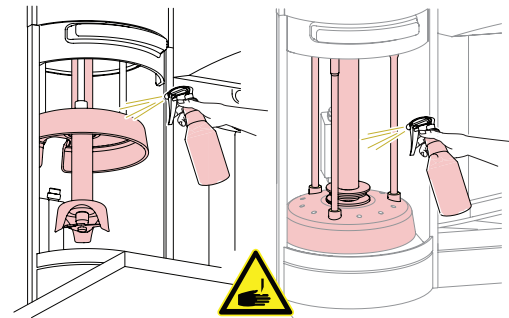
FINISHED will display on the screen then progress to the Blender Station Sanitizing screen.

Blender Station Sanitizing

⚠ Warning

The blender station contains sharp moving parts. Wear gloves to protect hands.

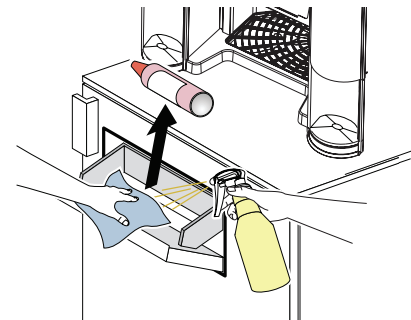
1. Completely spray blender station with sanitizer solution and use approved cleaning brush to thoroughly scrub area.
2. **Allow to air dry, Do not wipe off sanitizer!**
3. Repeat for other side if applicable.



- Press the Down Arrow to continue.

Whipped Cream Door Cleaning *

1. Remove contents from the whipped cream door and place in refrigerator.
 - For units equipped with this option.

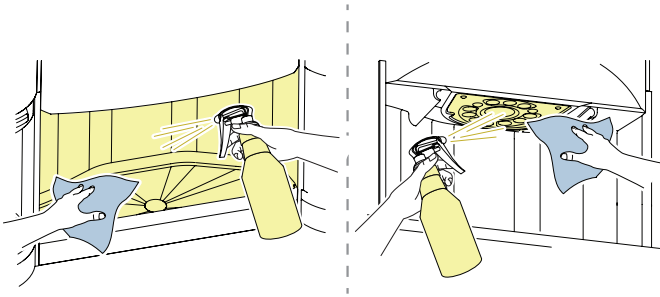


2. Completely spray interior and exterior of whipped cream door with cleaning solution, wipe thoroughly.
3. Thoroughly wipe down interior and exterior of whipped cream dispense station, let dry completely.
4. Return contents to the whipped cream door.
 - Press the Down Arrow.

Dispense Area Cleaning**⚠ Caution**

Do Not Insert a brush or sharp object into the red dispense nozzles.

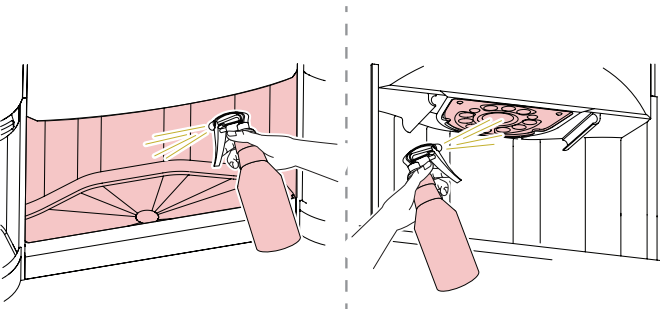
1. Spray all dispensing area surfaces with cleaning solution, then use cloth and/or use approved cleaning brush to thoroughly scrub area.
2. Thoroughly spray each individual dispense nozzle with cleaning solution and apply cleaner to each individual dispensing valve, then use approved towel to wipe the area.



- Press the Down Arrow to continue.

Dispensing Area Sanitizing

1. Thoroughly spray each individual dispense nozzle with sanitizing solution.
2. Thoroughly spray dispense area with sanitizing solution.



3. **Do Not wipe off sanitizer! Allow to air dry.**
4. Press the Green Check to signify you have completed the Zone 1 Daily Cleaning.
 - Clean, Rinse, Sanitize, and Dry any equipment before storing in a safe, protected location.

NOTE: The touch screen will return to the Main Cleaning screen.

Weekly Cleaning - Zone 2

NOTE: The following procedures are the basic weekly cleaning instructions, on-screen instructions can vary depending on the recipe that was created with the MenuConnect program or options chosen in the Managers Menu. **These items are optional and may not be displayed on all easyToUCH screens during ZONE 2 Cleaning.*

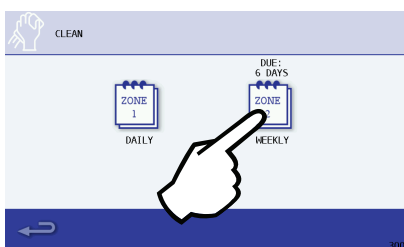
- Time to complete - 90 Minutes

NOTE: An additional 1 hour 45 minutes will be needed if the Sanitizing Ice bin option is enabled in the Managers Menu.

1. Cycle touch screen to the Main Menu and select the Cleaning icon.



2. In the Cleaning screen select the ZONE 2 icon.



NOTE: Failure to complete the weekly cleaning sequence entirely will not reset the weekly cleaning timer and will require the process to be repeated.

GATHER THE FOLLOWING SUPPLIES

Follow the on-screen instructions and gather the following supplies:

Clean towels (Cloths*)	
Spray Cleaner & Detergent Solution (Approved mild dish detergent solution)	
Spray Sanitizer & Solution Approved sanitizers: Solution that provides 100 ppm available chlorine minimum. Or solution providing 300 ppm Quaternary Ammonium minimum. Or Manitowoc sanitizer part number 9405653, use 3.25 oz/5 gal (96 ml/19L).	
Red & Blue Cleaning Cups (1 of each per blender station)	
Set of Three (3) Cleaning Buckets (Wash, Rinse & Sanitize Solutions)	
Splash Shield	
Cleaning Manifold	
Ice Scoop	
Drain cleaner & Dispenser*	
Cleaning Brush, Gloves & Safety Glasses*	
<i>* These items are optional and may not be displayed on all easyToUCH screens.</i>	

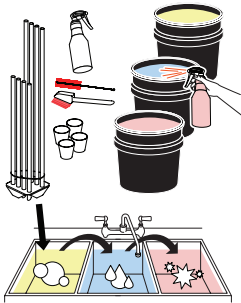
NOTE: If other cleaners are used, it is possible they will not clean or sanitize your machine to NSF standards.

- Press the down arrow to continue.

PRODUCT LINE CLEANING & SANITIZING

At Back Room Sink

1. Put on gloves & safety glasses.*



2. Clean (Scrub) - Rinse - Sanitize - Dry All Equipment.
3. Air dry buckets for 5 minutes, other supplies soak in sanitizer sink for 5 minutes.
4. Prepare solutions per chemical supplier recommendations & fill to top. Prepare drain cleaner just before use.

Prepare Cleaning Solutions

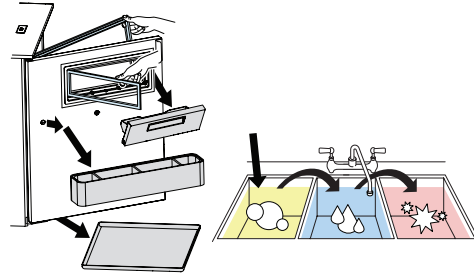
Follow the on screen instructions and fill each labeled bucket to the fill line with the appropriate solution and bring to machine.



1. Fill CLEANING bucket (labeled #1) with approved mild dish detergent solution from back sink.
2. Fill RINSE bucket (labeled #2) with warm, clean water.
3. Fill SANITIZE bucket (labeled #3) with lukewarm water, the correct amount of Approved sanitizer solution and mix thoroughly.
4. Fill two (2) blue cleaning cups with cleaning solution, and two (2) red cups with sanitizer solution then set aside.
 - Press the Down Arrow.

Whip Cream Door *, Gasket Seals, & Drip Tray

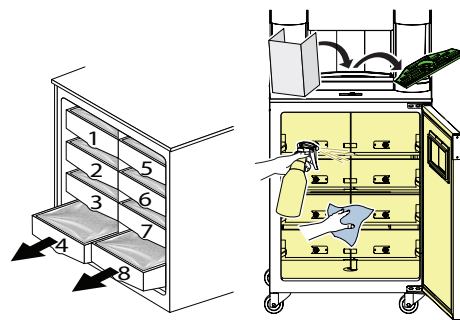
1. Move the product bags, canister, and any tray products to walk-in cooler.



2. Pull cream canister door gasket from door front
3. Remove whip cream door gasket, main door gasket, drip tray, and rail from front of the door.
4. Take all removed items to the back room sink to clean, rinse, and sanitize. Allow to air dry. **Do not put in dishwasher or power soaker.**
 - Press the Down Arrow.

Washing Instructions

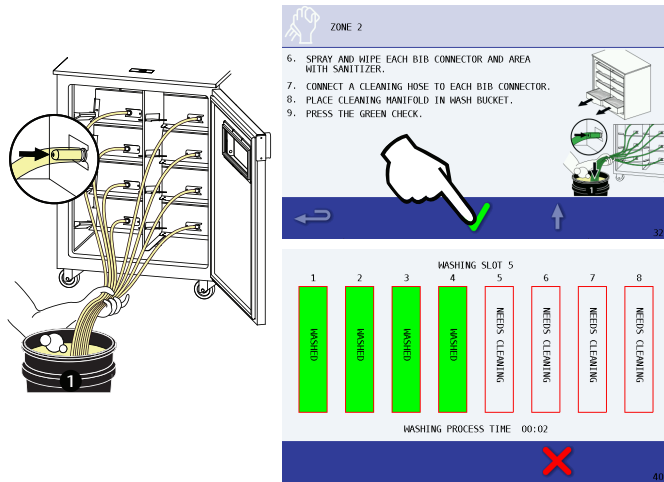
1. Remove grate from center dispense area, take to sink to wash and sanitize.
2. Install splash guard in dispense area.
3. Remove product holders from cabinet and take to refrigerated storage.



4. Spray and wipe refrigerator surfaces with new sanitized clean cloth, including each white nozzle, back rails, center divider, cleaning hose, and inner walls with cleaner.
 - Press the Down Arrow.

Connect Cleaning Tubes

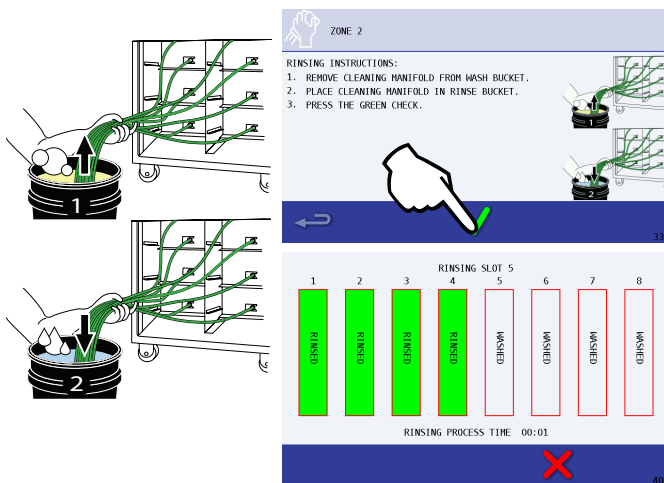
1. Place cleaning manifold into bucket #1 - Cleaner.
2. Connect the four (4) shorter tubes to bottom white nozzles - four (4) longer tubes to top white nozzles.



3. Press Green Check to continue and begin cleaning the lines. The wash solution will cycle through each line and display progress on the screen.

Rinse Lines

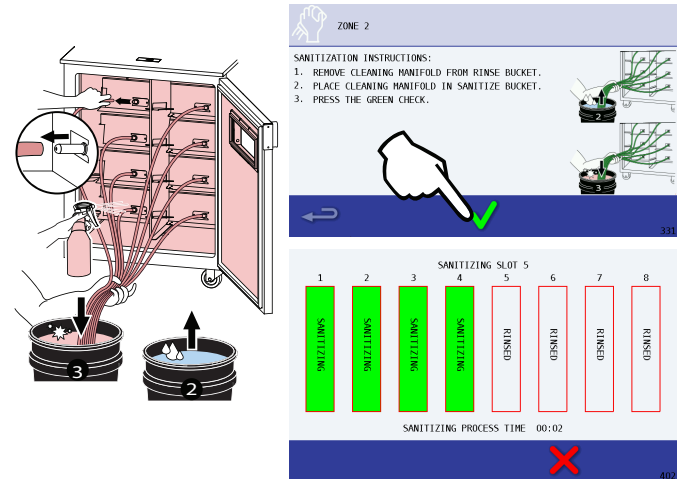
1. **DO NOT ALLOW CLEANING MANIFOLD TO TOUCH THE FLOOR.**
2. Remove cleaning manifold from bucket #1 - Cleaner and place into bucket #2 - Warm Rinse Water.



3. Ensure each of the manifold tubes are connected.
4. Press Green Check to continue and begin rinse. As Rinse solution runs through each line, the display will change from Washed to Rinsed and turn green.

Sanitize Lines

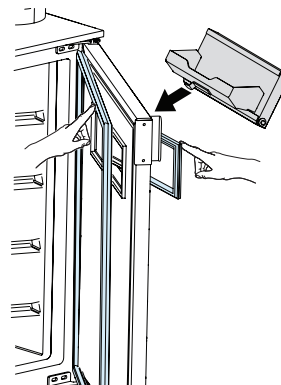
1. **DO NOT ALLOW CLEANING MANIFOLD TO TOUCH THE FLOOR.**
2. Remove cleaning manifold from bucket #2 - Warm Rinse Water and place into bucket #3 - Sanitizer.



3. Ensure each of the manifold tubes are connected.
4. Press Green Check to continue and begin rinse. As Rinse solution runs through each line, the display will change from Washed to Rinsed and turn green.

Whip Cream Door *, Gasket Seals, & Drip Tray

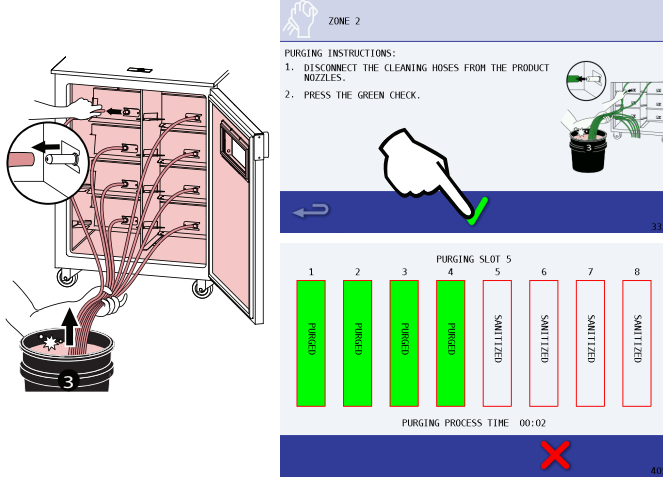
1. Install whip cream door gasket.



2. Install whip cream door by positioning the spring button into refrigerator door opening, push spring button and snap into place.
3. Replace drip tray and gasket on inside of refrigerator door, press into position all the way around the door.
4. Press Green Check to continue.

Purging Lines

1. Disconnect the cleaning hoses from the white nozzles.

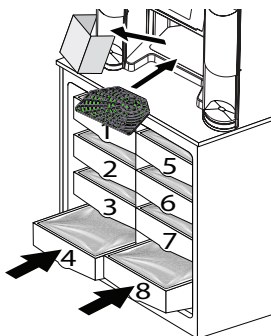


2. Press Green Check to continue and purge the lines. Air is pushed through each line blowing out any remaining liquid. The line on the display will change from Sanitized to Purged and turn green.

NOTE: Air is pushed through each line (slot) blowing out any remaining liquid, displaying the progress on the screen, 30 seconds per slot. When purging has completed the Reinstall Inventory Screen will appear automatically.

Reinstall Inventory

1. Retrieve product holders from refrigerated storage and reinstall each into their correct slot number.
2. Remove splash shield and reinstall center grate into the dispense area.

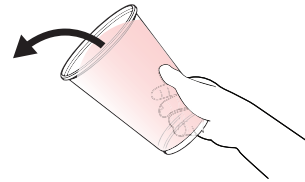


3. Place a large empty cup under the dispensing nozzles.
4. Press the Down Arrow, then press the Green Check when ready to prime all product slots.

NOTE: This will automatically prime each line with product. The screen will read Priming Slot X. Each slot will change from Purged to Primed. When priming has completed the Prime Completion Screen will appear automatically.

Auto Prime Complete

1. Remove and dispose of large cup with primed product.



Important

Do Not pour down the drain on the BIC unit!

2. Press the Green Check to continue

Empty Ice Bin

1. Remove ice bin lid.

⚠ Warning

Sharp Objects/Surfaces - Beware of the shaver blade located in the bottom of the ice bin.

2. Use an ice scoop and an empty bucket to remove as much ice as possible from above the ice shelf.

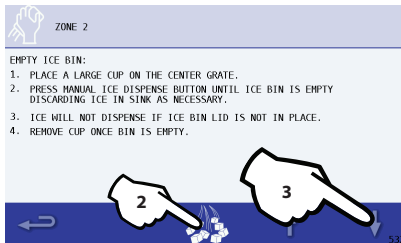


3. Replace ice bin lid.
 - Press the Down Arrow to continue.

Dispense Remaining Ice

1. Place a large cup on the center grate.
2. Press manual ice dispense button until ice bin is empty, discarding ice in sink as necessary.

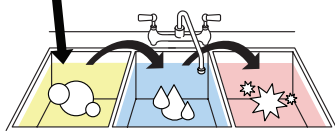
NOTE: Ice will not dispense if ice bin lid is not in place.



3. Remove cup once bin is empty.
 - Press the Down Arrow to continue.

Ice Bin Wash

1. Remove the ice bin lid and ice bin ring for cleaning and sanitizing. Take them back the three (3) compartment sink to wash, rinse and sanitize.

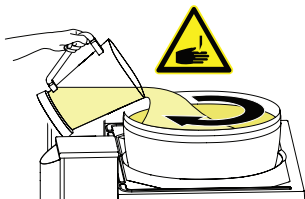


Warning

When in contact with cleaning and sanitizing solution chemicals gloves and safety glasses are recommended.

NOTE: Do not put in dishwasher or power soaker.

2. Place a large empty cup under dispensing nozzles.
3. Fill another cup with approved cleaner and slowly pour the cleaner into the ice hopper in a circular motion, as close to and as high up the inside walls as possible, without splashing solution outside the unit.



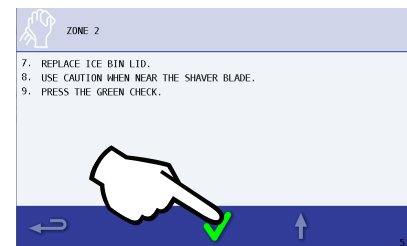
4. Empty cleaning cup and repeat 3 times.
5. Use clean cleaner-soaked towel to clean inside of bin.
 - Press the Down Arrow to continue.
6. **Use Caution when wiping near the shaver blade.**
 - Press the Down Arrow to continue.

Ice Bin Rinse / Sanitize

1. Rinse ice bin with clean water.
2. Fill a cup with clean water and slowly pour the clean water into the ice bin in a circular motion, as close to and as high up the inside walls as possible, without splashing outside the unit.
3. Repeat if needed for a thorough rinse.



4. Spray interior of ice bin with sanitizer solution and allow to air dry.
 - Press the Down Arrow.
5. Reinstall ice bin ring and lid, being careful of the shaver blade.



6. Press the Green Check to continue.

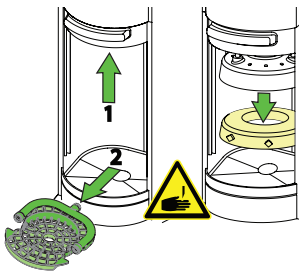
BLENDERS / DISPENSE AREA CLEANING & SANITIZING**Grate Removal / Blender Station Wash****Warning**

The blender station contains sharp moving parts. Wear gloves to protect hands.

Follow the on screen instructions:

- Put on gloves and safety glasses.*

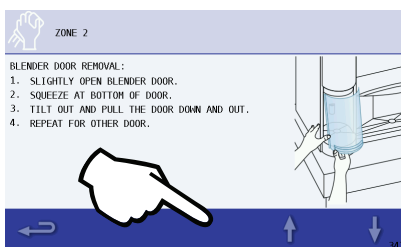
1. Remove grate from blender station(s) by pulling up and out.
2. Remove the cup cover seal from the cup cover by pushing on the front and pulling down.



3. Spray all surfaces inside of the blender station(s) with cleaning solution, then scrub thoroughly with approved cleaning brush.
4. Thoroughly wipe down all surfaces of blender station with a clean towel.
 - Press the Down Arrow.
5. Repeat for other side if applicable.
 - Press the Down Arrow. The Slide Progress screen will display while the blender(s) move into cleaning position.

Blender Door Removal

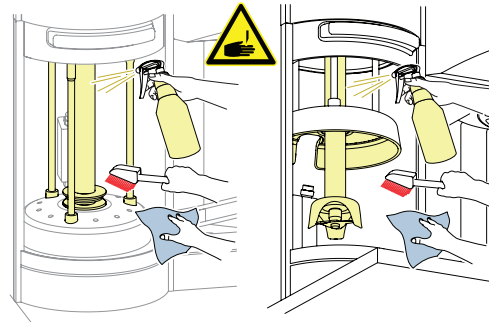
1. Slightly open blender door.
2. Squeeze at bottom of door.
3. Tilt out and pull the door down and out.
4. Repeat for other door if applicable. Take them back the three (3) compartment sink to wash, rinse and sanitize



- Press the Down Arrow to continue.

Blender Station Wash

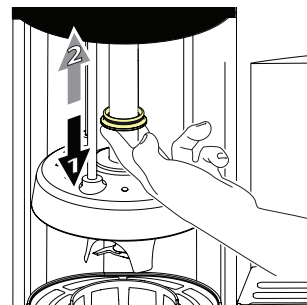
1. Completely spray blender station with cleaning solution, use cleaning brush to thoroughly scrub down the entire area.



2. Using the approved cleaning brush, thoroughly scrub down top of blender cap and arm.
3. Lift blender cap and thoroughly scrub top of blade housing and bottom of blender cap.
4. Repeat on other side if applicable.
 - Press the Down Arrow to continue.

Clean Blender Shaft Bushing

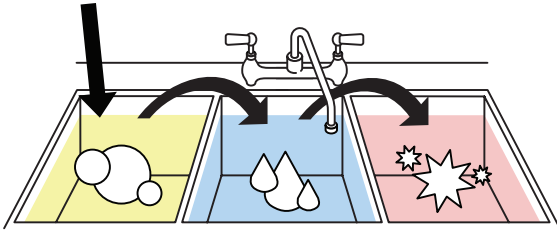
1. Follow the blender shaft up above the blender cap, use fingers to pull the bushing out of the blender chamber.
2. Spray with cleaner and use a brush and/or clean cloth to wipe.



3. Spray with sanitizer and push back up into place.
 - Press the Down Arrow.
4. Thoroughly spray with sanitizer solution and use approved cleaning brush to scrub entire blender assembly.
5. Repeat for other side if applicable.
 - Press the Down Arrow to continue.

Wash Blender Grate(s) / Door(s)

1. Take all grates, cup cover seals, and doors to sink to wash and sanitize.
2. **Do not put in dishwasher or power soaker.**

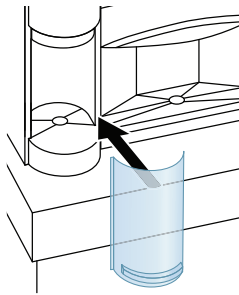
**⚠ Warning**

When in contact with cleaning and sanitizing solution chemicals gloves and safety glasses are recommended.

- Press the Down Arrow when completed

Reinstall Blender Door(s)

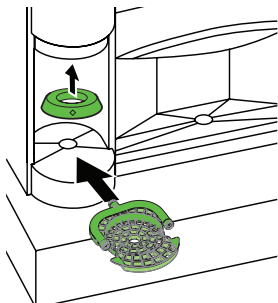
1. Reinstall blender door(s).



- Press the Down Arrow. The Slide Progress screen will display and the blender(s) will move into operating position.

Reinstall Blender Grate(s)

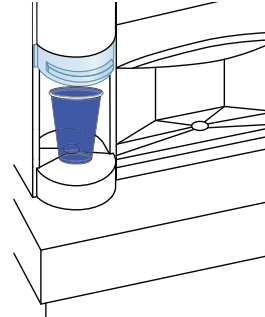
1. Reinstall blender grate(s) and cup cover(s)* (if equipped).



- Press the Down Arrow to continue.

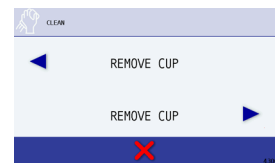
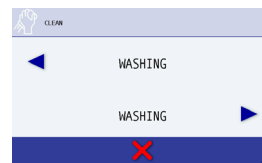
Blender Wash

1. Place blue cleaning cup with wash solution in blend chamber(s) and close the blender door(s).
 - Use approved mild dish detergent solution.



2. Press the Green Check to begin.

The blenders will lower into the wash solution and spin to clean. WASHING will display on the screen.



Follow the on screen instruction, when prompted remove the blue cup(s) and pour wash solution down the drain.

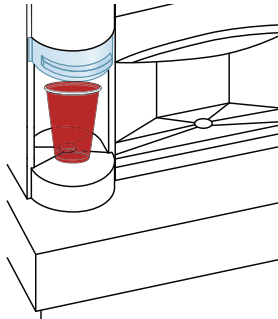
Close the blender door(s) and RINSING will display on the screen while the machine rinses the blenders.



FINISHED will display on the screen then progress to the Blender Sanitizing screen.

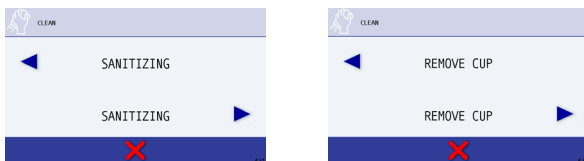
Blender Sanitizing

1. Place red sanitizing cup(s) with sanitizing solution in blender station(s) and close the blender door(s).
 - Use approved sanitizer solution.



2. Press the Green Check to begin.

The blenders will lower into the wash solution and spin to sanitize. SANITIZE will display on the screen.



Follow the on screen instruction, when prompted remove the red cup(s) and pour sanitizing solution down the drain. Close the blender door(s).



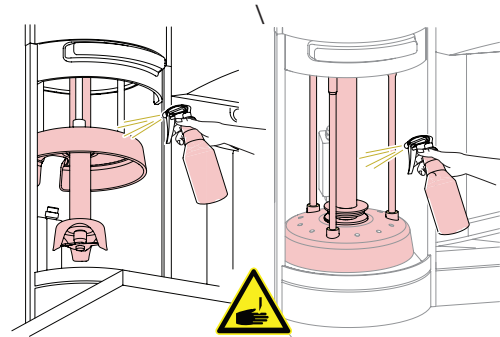
FINISHED will display on the screen then progress to the Blender Station Sanitizing screen.

Blender Station Sanitizing

⚠ Warning

The blender station contains sharp moving parts. Wear gloves to protect hands.

1. Completely spray blender station with sanitizer solution and use approved cleaning brush to thoroughly scrub area.

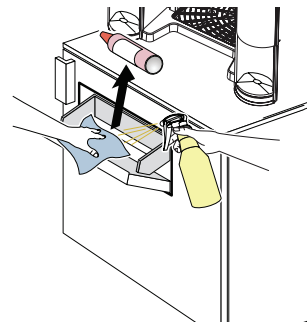


2. Allow to air dry, Do not wipe off sanitizer!

3. Repeat for other side if applicable.
 - Press the Down Arrow to continue.

Whipped Cream Door Cleaning *

1. Remove contents from the whipped cream door and place in refrigerator.
 - For units equipped with this option.

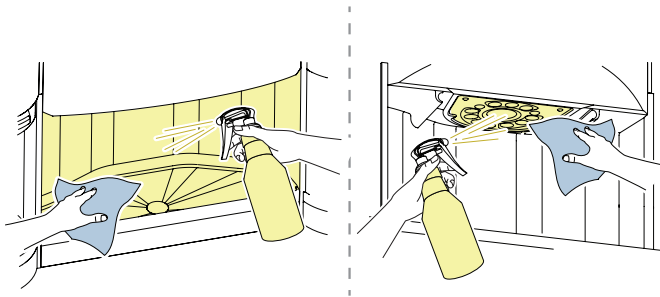


2. Completely spray interior and exterior of whipped cream door with cleaning solution, wipe thoroughly.
3. Thoroughly wipe down interior and exterior of whipped cream dispense station, let dry completely.
4. Return contents to the whipped cream door.
 - Press the Down Arrow to continue.

Dispense Area Cleaning**⚠ Caution**

Do Not Insert a brush or sharp object into the red dispense nozzles.

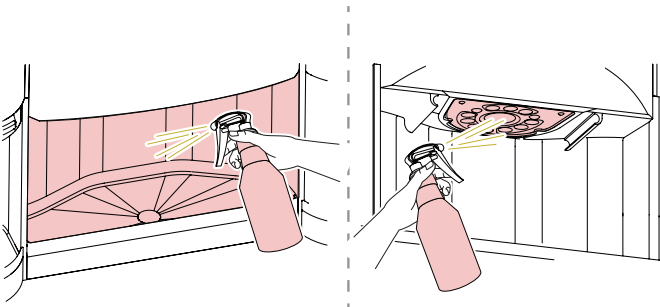
1. Spray all dispensing area surfaces with cleaning solution, then use cloth and/or use approved cleaning brush to thoroughly scrub area.
2. Thoroughly spray each individual dispense nozzle with cleaning solution and apply cleaner to each individual dispensing valve, then use towel to wipe the area.



- Press the Down Arrow to continue.

Dispensing Area Sanitizing

1. Thoroughly spray each individual dispense nozzle with sanitizing solution.
2. Thoroughly spray dispense area with sanitizing solution.

**3. Do Not wipe off sanitizer! Allow to air dry.**

4. Press the Green Check to signify you have completed the Zone 2 Daily Cleaning or if the continue to Drain Cleaning if this option is enabled in the recipe file.

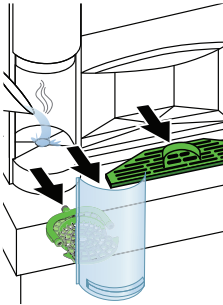
NOTE: The touch screen will return to the Main Menu screen if Drain Cleaning is not active.

DRAIN CLEANING - BIO-SHIELD® (OPTIONAL)

**Only for units with this feature. These steps will only display during the ZONE 2 Cleaning on units with this feature turned on in the loaded recipe file. If this feature is not active, the interface will automatically proceed to "Weekly Cleaning Completed" on page 53.*

Prepare Unit for Drain Cleaning

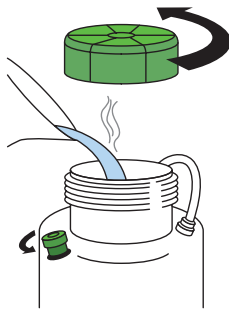
1. Remove blender door(s) and grate(s).
2. Remove grate from center dispensing area.



3. Slowly pour 1 gal / 3.8 L of hot (120-130°F / 49-54°C) water into each drain.
 - Press the Down Arrow to continue.

Prepare Drain Cleaning Solution

1. On the top of the dispenser, open pressure relief knob by turning counter-clockwise.
2. Remove the cap from the dispenser.

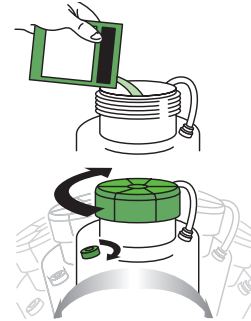


- Press the Down Arrow to continue.
3. Pour 1 gal / 3.8 L of hot (120-130°F / 49-54°C) water into the dispenser, DO NOT EXCEED 140°F/60°C.
 - Press the Down Arrow to continue.

Mix Drain Cleaning Solution**Important**

When in contact with drain cleaning chemicals gloves and safety glasses are recommended.

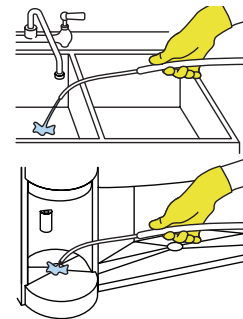
1. Quickly pour one packet of drain cleaner into dispenser.
2. Immediately replace and tighten cap.



3. On the top of the dispenser, close pressure relief knob by turning clockwise.
4. Shake dispenser to dissolve cleaner.
 - Press the Down Arrow to continue.

Drain Cleaning

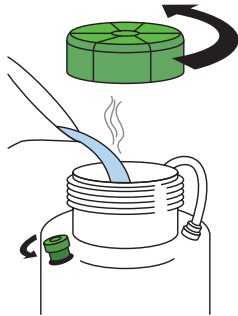
1. Carefully purge a small amount of solution from the dispenser into the sink.
2. This helps prevent "sputtering" of solution and possible splash onto clothing or eyes.



3. Carefully spray an equal amount of the solution into each drain.
 - Press the Down Arrow to continue.

Post Drain Cleaning

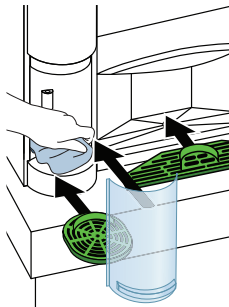
1. Open the pressure relief knob again by turning counter-clockwise.
2. Remove cap from the dispenser.
3. Rinse the dispenser with warm (75-90°F/23-32°C) water and return to the proper storage area.



- Press the Down Arrow to continue.

Reinstall Grate(s) / Door(s)

1. Wipe drain areas and work surface with sanitized towel to remove drain cleaner.



2. Reinstall mixer grate(s).
 3. Reinstall dispensing area grate.
 4. Reinstall mixer door(s).
- Press the Down Arrow to continue.

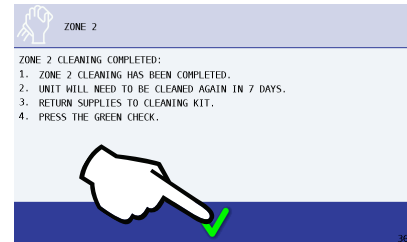
Important

Drain cleaner is most effective when left for four (4) hours, but the machine can be used as needed.

- Press the Green Check to continue.

Weekly Cleaning Completed

1. Remove gloves and safety glasses.*
2. Weekly cleaning has been completed.
3. Unit will need to be cleaned again in 7 days.
4. Clean, Rinse, Sanitize, and Dry any equipment before storing in a safe, protected location.

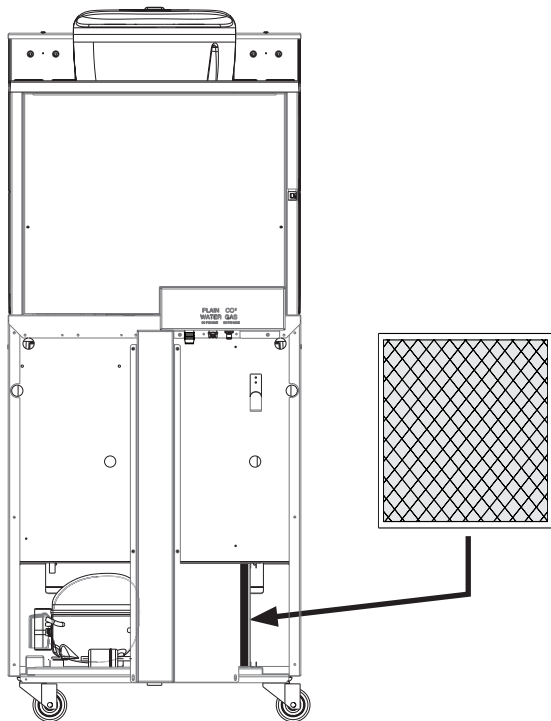


5. Press the green check to signify you have completed the Zone 2 Weekly Cleaning. The screen will return to the Main Menu screen.

OTHER MONTHLY TASKS

Air Filters

For units equipped with an air filter. Each month check the air filter to be sure it is clean and allows proper airflow.



Air Filter Location

First access the rear of the unit, slide it out and inspect. If it is dirty or light will not pass through when held up to light, take to a sink and wash with dish soap until clean. **DO NOT** put in a dishwasher.

Once clean, slide it back into place on the unit and move unit back into place.

Cleaning the Condenser Coil

In order to maintain proper refrigeration performance, the condenser fins must be cleaned of dust, dirt and grease regularly. It is recommended that this be done at least every three months. If conditions are such that the condenser is totally blocked in three months, the frequency of cleaning should be increased. Clean the condenser with a vacuum cleaner or stiff brush. If extremely dirty, a commercially available condenser cleaner may be required.

Failure to maintain a clean condenser coil can initially cause high temperatures and excessive run times. Continuous operation with a dirty or clogged condenser coil can result in compressor failure. Neglecting the condenser coil cleaning procedures will void any warranties associated with the compressor and cost to replace the compressor.

Caution

Never use a high-pressure water wash for this cleaning procedure as water can damage the electrical components located near or at the condenser coil.

Exterior Cleaning

Remove dust and dirt from the exterior surfaces with a mild household dish washing detergent and warm water. Wipe dry with a clean, soft cloth.

Use cleaners designed for use with stainless steel products.

Heavy stains should be removed with stainless steel wool. Never use plain steel wool or abrasive pads. They will scratch the panels.

Plastic exterior panels and UI (User Interface) Screen should be cleaned with a mild household dish washing detergent and warm water on a damp cloth. Wipe dry with a clean, soft cloth.

Product Line Flush

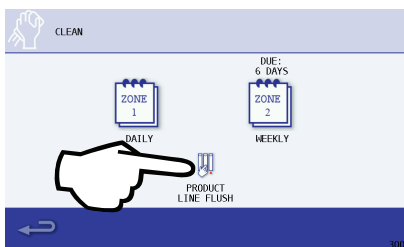
NOTE: The following procedures are the basic product line flushing instructions. On-screen instructions can vary depending on the recipe that was created with the MenuConnect program or options chosen in the Managers Menu. The Product Line Flush procedure allows a user to choose which lines to flush instead of being forced to flush every product line in the unit.

**These items are optional and may not be displayed on all easyToUCH screens during the Product Line Flush procedure.*

1. Cycle touch screen to the Main Menu and select the Cleaning icon.



2. In the Cleaning screen select the PRODUCT LINE FLUSH icon.



NOTE: Performing the product line flush through this interface procedure will not reset the Zone 2 cleaning countdown timer, Zone 2 cleaning will need to be performed in its entirety in order to reset the counter.

GATHER THE FOLLOWING SUPPLIES

Follow the on screen instructions and gather the following supplies:

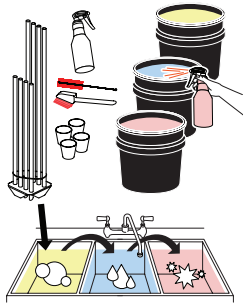
Clean towels (Cloths*)	
Spray Cleaner & Detergent Solution (Approved mild dish detergent solution)	
Sanitizing Solution Approved sanitizers: Solution that provides 100 ppm available chlorine minimum. Or solution providing 300 ppm Quaternary Ammonium minimum. Or Manitowoc sanitizer part number 9405653, use 3.25 oz/5 gal (96 ml/19L).	
Set of Three (3) Cleaning Buckets (Wash, Rinse & Sanitize Solutions)	
Splash Shield	
Cleaning Manifold	
Cleaning Brush, Gloves & Safety Glasses*	
<i>* These items are optional and may not be displayed on all easyToUCH screens.</i>	

If other cleaners are used, it is possible they will not clean or sanitize your machine to NSF standards.

- Press the down arrow to continue.

At Back Room Sink

1. Put on gloves & safety glasses.*



2. Clean (Scrub) - Rinse - Sanitize - Dry All Equipment.
3. Air dry buckets for 5 minutes, other supplies soak in sanitizer sink for 5 minutes.
4. Prepare solutions per chemical supplier recommendations & fill to top. Prepare drain cleaner just before use.

Prepare Cleaning Solutions

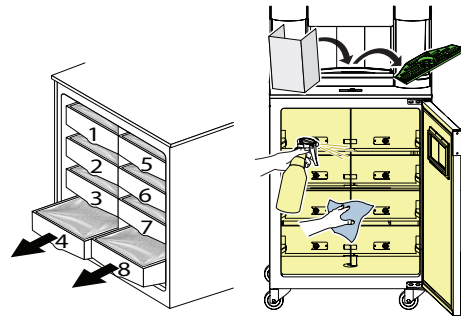
Follow the on screen instructions and fill each labeled bucket to the fill line with the appropriate solution and bring to machine.



1. Fill CLEANING bucket (labeled #1) with approved mild dish detergent solution from back sink.
2. Fill RINSE bucket (labeled #2) with warm, clean water.
3. Fill SANITIZE bucket (labeled #3) with lukewarm water, the correct amount of Approved sanitizer solution and mix thoroughly.
4. Fill two (2) blue cleaning cups with cleaning solution, and two (2) red cups with sanitizer solution then set aside.
 - Press the Down Arrow.

Washing Instructions

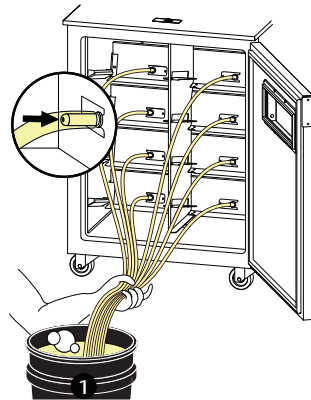
1. Remove grate from center dispense area, take to sink to wash and sanitize.
2. Install splash guard in dispense area.
3. Remove product holders from cabinet and take to refrigerated storage.



4. Spray and wipe refrigerator surfaces with new sanitized clean cloth, including each white nozzle, back rails, center divider, cleaning hose, and inner walls with cleaner.
 - Press the Down Arrow.

Connect Cleaning Tubes

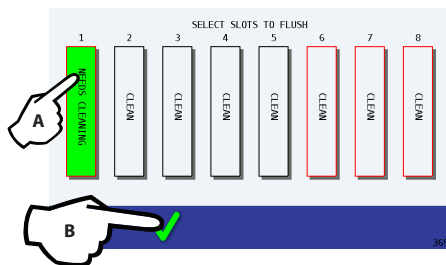
1. Place cleaning manifold into bucket #1 - Cleaner.
2. Connect the four (4) shorter tubes to bottom white nozzles - four (4) longer tubes to top white nozzles.



3. Press Green Check to continue.

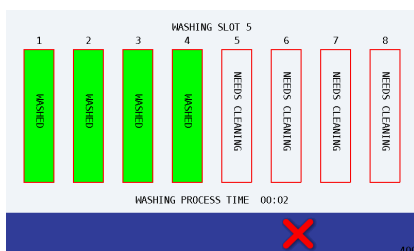
Select Slots to Flush

- A. Touch each slot that needs to be flushed, select any or all slots. Selected slots will become highlighted in green and say NEEDS CLEANING.
- Slots that are not selected will say CLEAN.
- Slots outlined in red do not currently have a product assigned but may be selected to flush.



- B. The Green Check will appear once a slot has been selected. Once all the slots to be flushed have been selected, press the Green Check to continue.

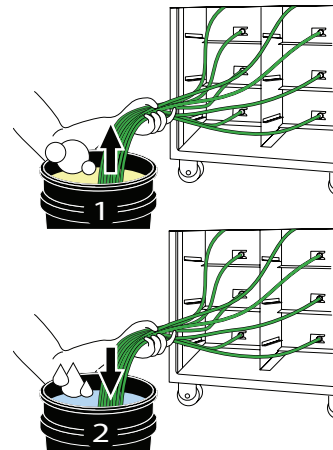
This will automatically send the wash solution through each line (slot) that was selected, displaying the progress on the screen, 30 seconds per slot.



When washing has completed, the Rinsing Instructions screen will appear automatically.

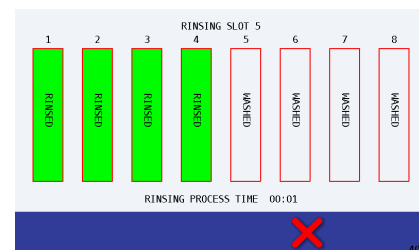
Rinse Lines

1. **DO NOT ALLOW CLEANING MANIFOLD TO TOUCH THE FLOOR.**
2. Remove cleaning manifold from bucket #1 - Cleaner and place into bucket #2 - Warm Rinse Water.



3. Ensure each of the manifold tubes are connected.
4. Press Green Check to continue and begin rinse. As Rinse solution runs through each line, the display will change from Washed to Rinsed and turn green.

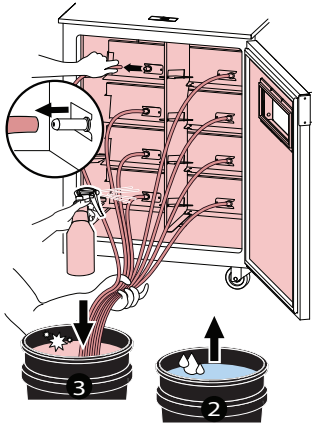
This will automatically send the rinse solution through each line (slot) that was selected, displaying the progress on the screen, 30 seconds per slot.



When rinsing has completed, the Sanitization Instructions screen will appear automatically.

Sanitize Lines

- DO NOT ALLOW CLEANING MANIFOLD TO TOUCH THE FLOOR.**
- Remove cleaning manifold from bucket #2 - Warm Rinse Water and place into bucket #3 - Sanitizer.



- Ensure each of the manifold tubes are connected.
- Press Green Check to continue and begin rinse. As Rinse solution runs through each line, the display will change from Washed to Rinsed and turn green.

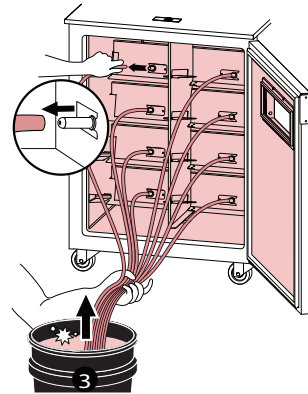
This will automatically send the sanitizing solution through each line (slot) that was selected, displaying the progress on the screen, 30 seconds per slot.



When sanitizing has completed, the Purging Instructions screen will appear automatically.

Purging Lines

- Disconnect the cleaning hoses from the white nozzles.



- Press Green Check to continue and purge the lines. Air is pushed through each line blowing out any remaining liquid. The line on the display will change from Sanitized to Purged and turn green.

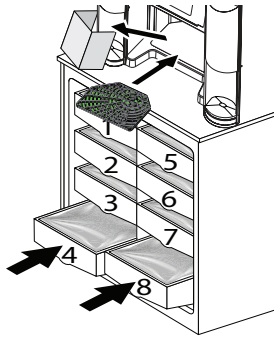
Air is pushed through each line (slot) that was selected, blowing out any remaining liquid, displaying the progress on the screen, 30 seconds per slot.



When purging has completed, the Reinstall Inventory screen will appear automatically.

Reinstall Inventory

1. Retrieve product holders from refrigerated storage and reinstall each into their correct slot number.
2. Remove splash shield and reinstall center grate into the dispense area.



3. Place a large empty cup under the dispensing nozzles.
4. Press the Down Arrow, then press the Green Check when ready to select product slots to prime.

Select Slots to Prime

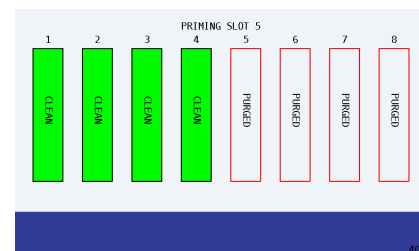
- A. Touch each slot that needs to be primed. Only the slots that were selected at the beginning of this sequence and flushed will be available as a choice.
 - Selected slots will become highlighted in green.



NOTE: If a line that does not have product assigned was cleaned, it will not need priming.

- B. The Green Check will appear once a slot has been selected. Once all the slots to be primed have been selected, press the Green Check to continue.

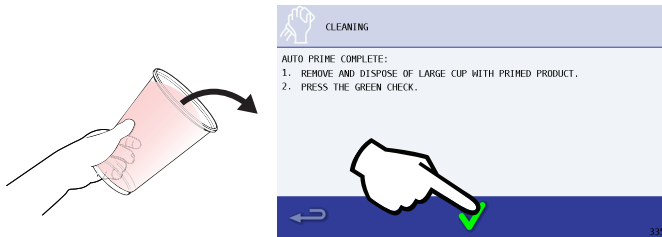
This will automatically prime each line that was selected with product. The screen will read PRIMING SLOT X. Each slot will change from PURGED to PRIMED.



When priming has completed the Prime Complete screen will appear automatically.

Auto Prime Complete

1. Remove and dispose of large cup with primed product.



Important

Do Not pour down the drain on the BIC unit!

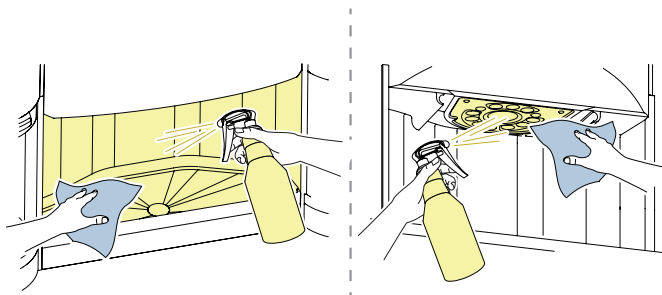
2. Press the Green Check to continue to the Dispensing Area Cleaning screen.

Dispensing Area Cleaning

Important

Do Not Insert a brush or sharp object into the red dispense nozzles.

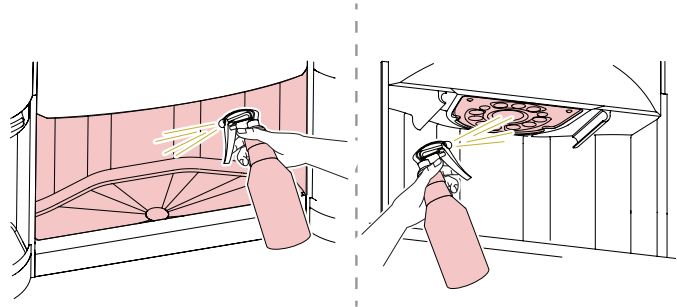
1. Remove center grate from dispensing area.
2. Spray all dispensing area surfaces with cleaning solution. Then use approved cleaning brush to thoroughly scrub area.



3. Thoroughly spray each individual dispense nozzle with cleaning solution and apply cleaner to each individual dispensing valve. Then use brush to carefully scrub the area.
 - Press the Down Arrow to continue.
4. Thoroughly wipe all dispense valves and dispense area with a clean towel.
 - Press the Down Arrow to continue.

Dispensing Area Sanitizing

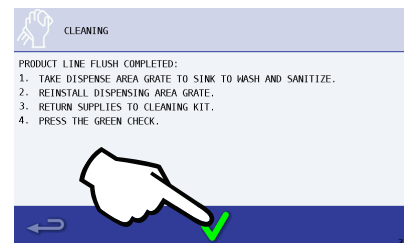
1. Thoroughly spray each individual dispensing nozzle with sanitizer solution.
2. Thoroughly spray dispense area with sanitizer solution.
3. Allow to air dry.
4. **Do not wipe off sanitizer!**



- Press the Green Check to continue.

Product Line Flush Completed

1. Take dispense area grate to sink to wash and sanitize.
2. Reinstall dispense area grate.
3. Remove gloves and safety glasses.*
4. Clean, Rinse, Sanitize, and Dry any equipment before storing in a safe, protected location.



5. Press the Green Check to complete Product Line Flush. The screen will return to the Main Menu.

Annual Planned Maintenance

The following parts are recommended for annual planned maintenance replacement to ensure optimum unit performance and minimize downtime:

- Refrigerator door gasket (cleaning may be sufficient)
- Two (2) #6 O-rings for the water and CO₂/air quick connect lines
- Nine (9) LMS valves
- (1 Or 2) Mixer assemblies
- Ice Dispense Wheel
- Blender Shaft Assemblies

NOTE: All planned maintenance must be done by an approved, certified Manitowoc Field Service Technician.

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Section 5

Troubleshooting

If a problem arises during operation of your Blend-In-Cup Beverage System, follow the checklist below before calling service. Routine adjustments and maintenance procedures are not covered by the warranty.

Before Calling For Service Checklist

Symptom	Possible Cause	Corrective Action
Display Screen is off or refrigeration system is not running	Fuse blown or circuit breaker tripped.	Replace fuse or reset circuit breaker.
	Power cord unplugged.	Plug in power cord.
	Thermostat set too high.	Set thermostat to lower temperature.
	Main power switch turned off.	Turn main power switch on.
Display screen is on, but does not respond to commands	No recipe installed.	Develop recipe in MenuConnect and transfer to control system with USB drive.
	Control board locked up.	Reboot by disconnecting and reconnecting the main power supply.
Recipe does not dispense correctly	Low CO ₂ pressure.	Replace CO cylinder, set regulator to correct pressure. See "System Pressures" on page 10.
	No water supply or Low water pressure.	Restore water supply, set regulator to correct pressure. See "System Pressures" on page 10.
	Product is not installed, is installed incorrectly, or product line is blocked.	Install product, re-install correctly. See "Procedure to Clear Blocked Line" on page 65.
	Ice does not dispense.	Call for service.
Blender does not start when cup is inserted	Blender door is not closed.	Close blender door.
	Blender door switch is not closing.	Call for service.
Compressor runs for long periods or continuously	Excessive amount of warm product placed in cabinet.	Allow adequate time for product to cool down.
	Prolonged door openings or door(s) ajar.	Make sure door(s) are closed when not in use. Avoid prolonged door openings.
	Door gasket(s) not sealing properly.	Check gasket condition. Adjust door or replace gasket if necessary.
	Dirty condenser coil.	Clean the condenser coil.
	Evaporator coil iced over.	Turn unit off and allow coil to defrost. Make sure thermostat is not set too cold. Also, check gasket condition.
Ineffective Blend Chamber Rinse	Rinse nozzle is not installed properly.	Make sure nozzle is fully seated and indicator arrows are pointing up.
	Low water pressure	Verify pressure at gauges, call service if low.

Symptom	Possible Cause	Corrective Action
Cabinet temperature is too high	Thermostat set too high.	Set thermostat to lower temperature.
	Evaporator Fan(s) will not operate or fan blade is off or spinning on shaft.	Call for service.
	Excessive amount of warm product placed in cabinet.	Allow adequate time for product to cool down.
	Prolonged door openings or door(s) ajar.	Make sure door(s) are closed when not in use. Avoid prolonged door openings.
	Dirty condenser coil.	Clean the condenser coil.
	Evaporator coil iced over.	Turn unit off and allow coil to defrost. Make sure thermostat is not set too cold. Also, check door gasket condition.
	System low on refrigerant.	Call for service - Service company must locate and repair leak, recover, evacuate and recharge.
	Compressor will not start - hums and trips on overload protector.	Clean the condenser coil. Move cabinet or make other adjustments to gain proper cabinet clearances. See "Clearances" on page 8. Check and correct incoming voltage to cabinet.
Cabinet is noisy	Loose part(s).	Locate and tighten loose part(s).
	Tubing vibration.	Ensure tubing is free from contact with other tubing or components.
Refrigerator is freezing product	Thermostat is set too low.	Set thermostat to higher temperature. See "Normal Operation" on page 19.
Will Not Dispense Ice	Ice bin cover not in position.	Make sure ice bin cover is in place and secure.
	Excessive amount of ice in ice bin causing the cover not to correctly close.	Remove excessive ice from bin and correctly place ice bin cover.
	Excessive vibration disengages lid.	Verify ice is in bin.
Light corrosion is present on whipped cream door or other stainless steel parts.	Environmental factors, hard water, salts, over use of chloride based cleaners and/or food products with acidic content.	Wipe up all spills immediately. Use nylon brush, soft cloth, soap, and water to clean and remove corrosion. See "Stainless Steel Care & Cleaning" on page 36.

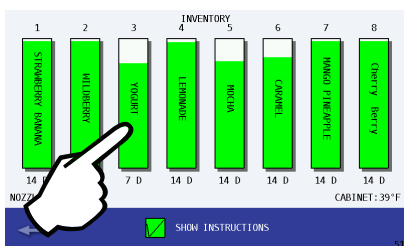
Procedure to Clear Blocked Line

NOTE: Verify product is available and properly connected before performing this procedure.

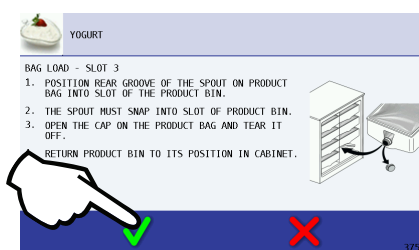
1. Fill a squirt bottle with very warm water.
2. Remove product bin.
3. Connect squirt bottle with vinyl tubing to product tube inlet.
4. Select the Inventory icon from the Main Menu.



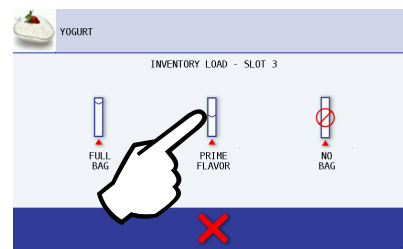
5. Select the product with the blocked line.



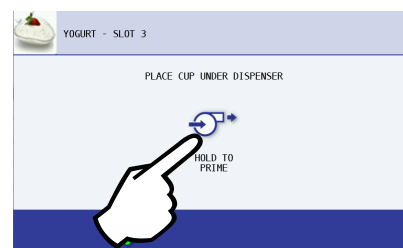
6. Select the green check twice without following the product replacement instructions.



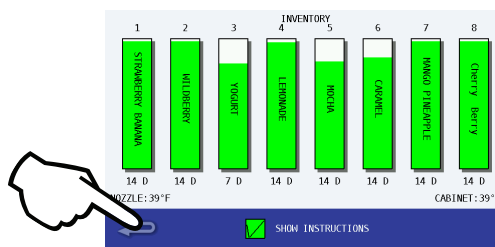
7. Select PRIME FLAVOR.



8. Place a cup under dispenser.
9. Select HOLD TO PRIME icon while squeezing the squirt bottle. Watch for product to enter the cup.



10. Repeat until valve clears, product and/or water enters the cup.
11. Disconnect squirt bottle with vinyl tubing. Insert product bin back into unit.
12. Select HOLD TO PRIME icon until only product flows into cup.
13. Press the Green Check when finished to return to the product Inventory screen.



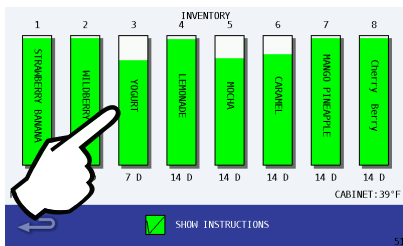
14. Press the Back Arrow to return to the Main Menu.

How to Check Product Pumps Air/CO₂ Pressure

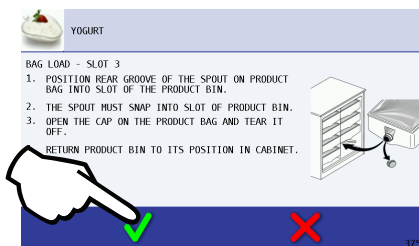
- Using the touch screen, go to the Prime Screen, which is accessed through the Inventory icon from the Main Menu.



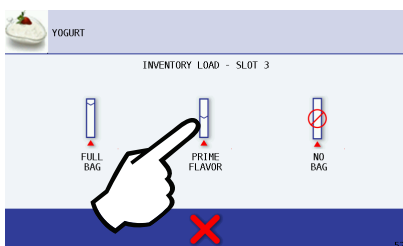
- On the inventory screen select any assigned product slot.



- Select the Green Check twice without following the product replacement instructions.

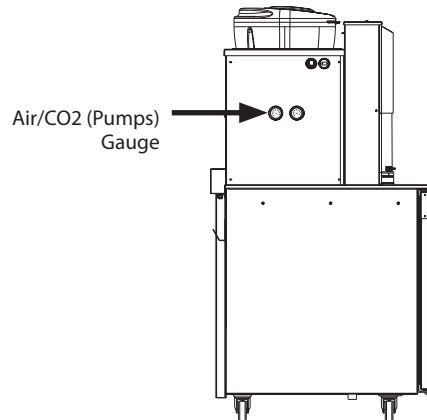


- Select the PRIME FLAVOR icon.

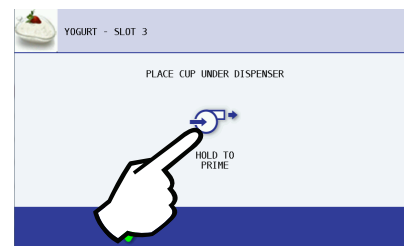


- Place a cup under dispenser.

- Locate the Product Pumps Air/CO₂ regulator on rear of the unit.



- Press and hold the HOLD TO PRIME icon while checking the CO₂ pressure reading on the regulator on the left side of the unit.



- The regulator will decrease to a stable pressure while the product is priming and then rise back to a higher pressure when the prime button is released.

35 psi
(.24 MPa, 241 kPa, 2.41 bar)
+/- 2 psi (.014 MPa, 14 kPa, .14 bar)



- The regulator should maintain 35 psi (0.24 MPa, 241 kPa, 2.41 bar) +/- 2 psi (.014MPa, 14 kPa, .14 bar) under flowing conditions.
- If the Air/CO₂ regulator fails to maintain this pressure during flowing conditions, call service to adjust.

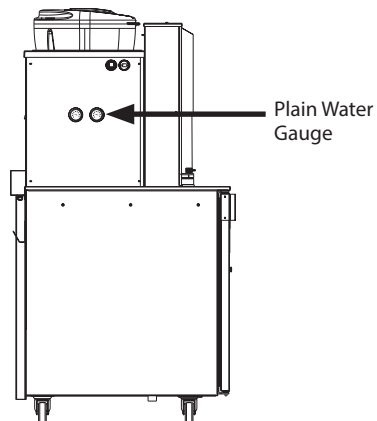
NOTE: To save product, Air/CO₂ pressure can be checked during Zone 2 Cleaning or at any time product pumps are in use.

How to Check Plain Water Pressure

1. Using the touch screen, gain access to the Blend Chamber Rinse Button(s) located at the bottom of either the Drink or Flavor Selection screen.



2. Activate a rinse cycle by touching the right or left rinse button while reading the plain water regulator on the rear of the unit.



NOTE: Units with only one (1) mixer will only display one (1) right rinse button.

3. The regulator will decrease to a stable pressure while the water is flowing and then rise back to a higher pressure once the rinse completes.

35 psi
 (.24 MPa, 241 kPa, 2.41 bar)
 +/- 2 psi (.014 MPa, 14 kPa, .14 bar)

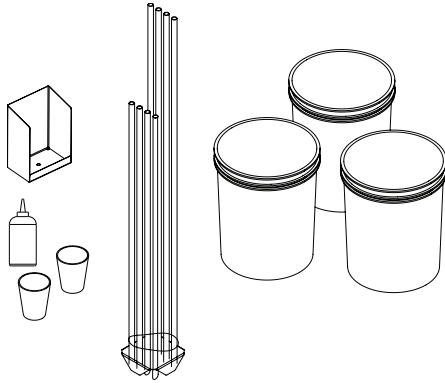


4. The Plain Water regulator should maintain 35 psi (0.24 MPa, 241 kPa, 2.41 bar) +/- 2 psi (.014 MPa, 14 kPa, .14 bar) under flowing conditions.
5. If the plain water regulator fails to maintain this pressure during flowing conditions, call service to adjust.

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Tools & Cleaning Supplies

Cleaning Kits



Complete cleaning kits are available (part number 000-BIC-006Q). These kits include the following;

- (3) three 5 gallon buckets
- Bucket labels for Wash, Rinse, & Sanitizing
- Red & Blue cups for blender cleaning
- Squeeze Bottle
- Dispense Area Shield
- Blender Cleaning Brush
- Tubing Manifold for product line cleaning

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Limited Warranty

WHO IS COVERED

This Limited Warranty is available only to the original end user of the product and is not transferable.

Exclusions From Coverage

This warranty shall not apply to:

- Any part or assembly that has been altered, modified, or changed.
- Repair or replacement of parts or assemblies required because of misuse, abuse, improper care or storage, negligence, alteration, accident, use of incompatible supplies or lack of specified maintenance.
- Normal maintenance items, including but not limited to, light bulbs, fuses, containers, gaskets, LMS Valves or product stickers used in the unit, O-rings, interior and exterior finishes, lubrication, de-liming, broken glass, etc.
- Improper or unauthorized repair.
- Failures caused by improper or erratic voltages.
- Any parts subject to damage beyond the control of Company, or to equipment which has been subject to alteration, misuse or improper installation, accidents, damage in shipment, fire, floods, power changes, other hazards or acts of God that are beyond the control of Company.
- Any machine that has been installed and/or maintained inconsistent with the technical instructions provided by the Company.
- Any machine initially installed more than five years from the serial number production date.
- Any products or equipment manufactured or sold by Company when such products or commercial equipment is installed or used in a residential or non-commercial application. Installations not within the applicable building or fire codes render this Limited Warranty and any responsibility or obligations associated therein null and void. This includes any damage, costs or legal actions resulting from the installation of any Company equipment in a non-commercial application or installation, where the equipment is being used for applications other than those approved for by Company.
- Any product cleaned without using an approved Company cleaning solution shall void this Limited Warranty.
- This warranty shall not apply if the Machine's refrigeration system is modified with a condenser, heat reclaim device, or parts and assemblies other than those manufactured by the Company, unless the Company approves these modifications for specific locations in writing.

LIMITATIONS OF LIABILITY

The preceding paragraphs set forth the exclusive remedy for all claims based on failure of, or defect in, products or services sold hereunder, whether the failure or defect arises before or during the warranty period, and whether a claim, however instituted, is based on contract, indemnity, warranty, tort (including negligence), strict liability, implied by statute, common-law or otherwise, and Company its servants and agents shall not be liable for any claims for personal injuries or consequential damages or loss, howsoever caused. Upon the expiration of the warranty period, all such liability shall terminate. THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, WHETHER WRITTEN, ORAL, IMPLIED OR STATUTORY. NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE SHALL APPLY. COMPANY DOES NOT WARRANT ANY PRODUCTS OR SERVICES OF OTHERS.

Remedies

The liability of Company for breach of any warranty obligation hereunder is limited to: (i) the repair or replacement of the Machine on which the liability is based, or with respect to services, re-performance of the services; or (ii) at Company's option, the refund of the amount paid for said Machine or services. Any breach by Company with respect to any item or unit of equipment or services shall be deemed a breach with respect to that item or unit or service only.

WARRANTY CLAIM PROCEDURE

Customer shall be responsible to:

- Immediately advise the Company's Authorized Service Agent of the equipment serial number and the nature of the problem.
- Verify the problem is a factory responsibility.
- Cooperate with the Service Agency so that warranty service may be completed during normal working hours.

To secure prompt and continuing warranty service, the warranty registration card must be completed and sent to the COMPANY within five (5) days from the installation date.

GOVERNING LAW

For equipment, products and services sold in the United States, this Limited Warranty shall be governed by the laws of the state of Delaware, USA, excluding their conflicts of law principles. The United Nations Convention on Contracts for the International Sale of Goods is hereby excluded in its entirety from application to this Limited Warranty.



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