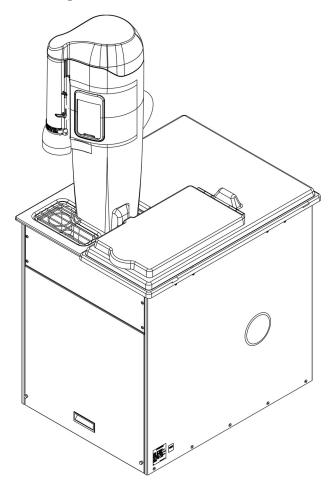


STARBUCKS UC100 PROGATE

Operator's Manual



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The products, technical information, and instructions contained in this manual are subject to change without notice. These instructions are not intended to cover all details or variations of the equipment, nor to provide for every possible contingency in the installation, operation or maintenance of this equipment. This manual assumes that the person(s) working on the equipment have been trained and are skilled in working with electrical, plumbing, pneumatic, and mechanical equipment. It is assumed that appropriate safety precautions are taken and that all local safety and construction requirements are being met, in addition to the information contained in this manual.

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Contact Information:

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This document contains the original instructions for the unit described.

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SAFETY INSTRUCTIONS

Read and Follow all Safety Instructions

Read and follow all safety instructions in this manual and on the machine (decals, labels, and laminated cards). Read and understand all applicable OSHA (Occupation Safety and Health Administration) safety regulations before operating the machine.

Recognize Safety Alerts



This is the safety alert symbol. When you see it in this manual or on the machine be alert to the potential of personal injury or damage to the machine.

Different Types of Alerts

There are 3 types of safety alerts:



DANGER — Indicates an immediate hazardous situation which if not avoided WILL result in serious injury, death, or equipment damage.



WARNING — Indicates a potentially hazardous situation which, if not avoided, COULD result in serious injury, death, or equipment damage.



CAUTION — Indicates a potentially hazardous situation which, if not avoided, MAY result in minor or moderate injury or equipment damage.

Safety Tips

- Carefully read all safety messages in this manual and safety signs on the machine.
- Keep safety signs in good condition and replace missing or damaged safety signs.
- Learn how to operate the machine and how to use the controls properly.
- Do not let anyone operate the machine without proper training. This appliance is not intended for use by very young children or infirm persons without supervision. Young children should be supervised to ensure that they do not play with the appliance.
- Keep your machine in proper working condition and do not allow unauthorized modifications to the machine.

Qualified Service Personnel



CAUTION — Only trained and certified electrical, plumbing and refrigeration technicians should service this unit. ALL WIRING AND PLUMBING MUST CONFORM TO NATIONAL AND LOCAL CODES.

CO₂ (Carbon Dioxide) Warning



WARNING — CO_2 Displaces Oxygen. Strict Attention **must** be observed in the prevention of CO_2 gas leaks in the entire CO_2 and soft drink system. If a CO_2 gas leak is suspected, particularly in a small area, **immediately** ventilate the contaminated area before attempting to repair the leak. Personnel exposed to high concentration of CO_2 gas will experience tremors which are followed rapidly by loss of consciousness.

SAFETY PRECAUTIONS

This ice dispenser has been specifically designed to provide protection against personal injury and eliminate contamination of ice. To ensure continued protection and sanitation, observe the following:



IMPORTANT: Disconnect power to the dispenser before servicing or cleaning.

NEVER: place hands inside of hopper or gate area without disconnecting power to the dispenser. Agitator rotation occurs automatically when dispenser is energized!

ALWAYS: be sure the removable lid is properly installed to prevent unauthorized access to the hopper interior and possible contamination of the ice.

ALWAYS: be sure the upper and lower front panels are securely fastened.

ALWAYS: keep area around the dispenser clean of ice cubes.

DESCRIPTION

The Undercounter ice dispenser solves your ice service needs with a sanitary, space saving, economical design. It is designed to be manually filled with Ice-O-Matic half cube ice.

KEYPAD OVERVIEW

Button Description

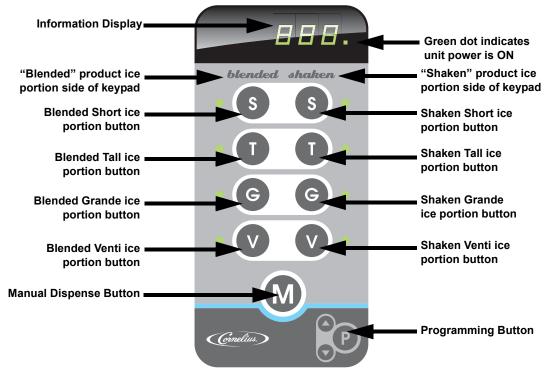


Figure 1

Functional Description

Just above the keypad is an information display that will show a code 2 through 4 letter. This code is to notify the user the status/error of the dispenser. Listed below are the codes and their meaning:

PR (Prime)

This code will display when the unit has just been powered.

ICE

When displayed, ice levels are low or close to empty inside the hopper.



LOC (Lock)

When displayed, check to make sure that ice bin covers, ice chute transition, piece ice flapper and ice chute are attached properly. Once secured, push the "M" button on the keypad to return to dispense mode.

FILL

When displayed, all ice has been consumed and needs to be replaced. Refill the ice bin. Close all ice bin covers and push the "M" button on the keypad to return to dispense mode.

ERR (Error)

When displayed, a system fault has occurred. Push the "M" button on the keypad to reset the dispenser and return to dispense mode.

FLAP (Flapper)

This code is displayed when the flapper has not made contact or not made correct contact with the microswitch. Push the "M" button on the keypad to return to the dispense mode.

E01

Keypad pc board has failed its internal memory check. Call service.

E02

A keypad button has been held down or stuck for one minute. Push the "M" button on the keypad to return to dispense mode.

START-UP AND OPERATING INSTRUCTIONS

Fill the hopper with ice and then push one of the "V" buttons on the keypad to dispense a large cup of ice. Repeat this procedure every time the dispenser has run out of ice. This insures that the ice chute is completely filled before use. If the dispenser fails to dispense ice, see troubleshooting guide.



CAUTION: Use caution to avoid spilling ice when filling the dispenser. Clean up any spilled ice immediately. To prevent contamination of ice, the lid must be installed on the unit at all times.

Programming the Ice Weight Portion

The ice weight portion setting is factory set for each portion size or keypad button. Follow the instructions below to increase or decrease the amount of ice dispensed for a portion size.

- 1. Press "P" and Blended Short (S) buttons simultaneously until SIZE displays on the information display.
- 2. Press and hold the desired size you wish to program until corresponding green LED flashes.

NOTE: The information display will now show the current value (in milliseconds) of that portion size.

- 3. Press the up or down button to increase/decrease the duration of dispense. Each press increases/ decreases the duration by 1ms.
- 4. Press the corresponding size button currently being programed until the green LED stops flashing.
- 5. To save the new programmed size, press the "P" and the Blended Short (S) buttons simultaneously until the screen clears. If no action is taken within 60 seconds, dispense mode resumes and any changes are not saved.

Viewing & Resetting Defaults:

The controller has four default tables contained within it. These tables are: "USA", "International", "Custom" and "Data".

To view or program the current table perform the following steps:

1. Press and hold the "P" button and the "M" button simultaneously.



- 2. The current default table is displayed in the menu.
- 3. The arrow buttons can now be used to move through the four tables.
- 4. To exit without programming, press and hold the "P" button for three (3) seconds to exit.
- 5. To reset to a new table, select the table using the arrow buttons.
- 6. Press and hold the "M" button for three (3) seconds, the display flashes twice when the new setting is accepted.
- 7. Exit by pressing and holding the "P" button for three (3) seconds.

To view the Data Table, perform the following steps:

- 1. Use the arrow buttons and move to the DATA table. Data is displayed.
- 2. Press a size button to see how many dispenses of that size have been done on the dispenser.
- 3. Press the "M" button to see the total number of dispenses on the dispenser.
- 4. LED display is limited to four digits or "9999" dispenses.
- 5. Exit by pressing and holding the "P" button for three (3) seconds.

Manual Operation

If the unit fails to operate properly, users may manually obtain ice from the hopper by opening the lid and using the "size specific scoop" to scoop out ice. Figure 2 shows the unit with the ice hopper with the cover open and the cup holder in place.



Figure 2

MAINTENANCE



WARNING: Disconnect Power Before Cleaning! Do not use metal scrapers, sharp objects, or abrasives on the ice storage hopper, top cover, and agitator disk. Do not use solvents or other cleaning agents because they may damage the plastic.

Soap solution – Use a mixture of mild detergent and warm (100°F) potable water.

<u>Sanitizing solution</u> – Dissolve one packet of Kay-5 Sanitizer/Cleaner into 2-1/2 gallons of water to ensure 100 ppm of available chlorine.

The following dispenser maintenance should be performed at the intervals indicated:.



Daily (or as required)

Remove foreign material from vending area drip tray to prevent drain blockage. Clean vending area. Check for proper water drainage from the vending area drip tray.

Cleaning Exterior Surfaces

IMPORTANT: Perform the following daily.

- 1. Remove the cup rest from drip tray.
- 2. Wash the drip tray with soap solution. Rinse with potable water and allow solution to run down the drain.



CAUTION — Do not pour hot coffee or other hot liquids into the drip tray. This causes the plastic drip tray to develop cracks and leaks.

- 3. Wash cup rest with soap solution and rinse in potable water. Install the cup rest into the drip tray.
- 4. Clean all exterior surfaces with soap solution and rinse with potable water.



Ice Chute Maintenance

IMPORTANT: Perform the following daily.

NOTE: The ice chute has a built in safety feature which disables the unit when the ice chute cover is removed. If the ice chute cover is not properly installed, the agitator and ice chute gate will not function.

- 1. Press and hold the "P" and "UP" buttons for five (5) seconds to enter purge mode. LED displays "Purg".
- Holding a large container or bucket beneath the ice chute, press and hold the "Manual" button to open the ice gate. Gate stays open as long as the button is depressed.
- 3. Press and hold the "P" button for five (5) seconds to exit the purge mode.
- 4. Remove the finger guard from the ice chute cover by sliding the guard upward then out.
- Remove the ice chute cover from the ice chute by pushing the black locking tab (Figure 4) back and sliding the ice chute upward and out.
- 6. Wash the ice chute, ice chute cover, finger guard, and ice level flapper with a nylon bristle brush and a clean rag using the soap solution.
- 7. Rinse the parts with clean potable water then rinse with sanitizing solution. Allow all parts to air dry.
- 8. Replace the ice chute and slide down into place.
- If the agitator or ice chute are not working, remove the ice chute cover and replace it.
- 10. Reinstall the finger guard onto the ice chute cover.
- 11. If ERR is displayed, press "M" button to return to dispense mode.

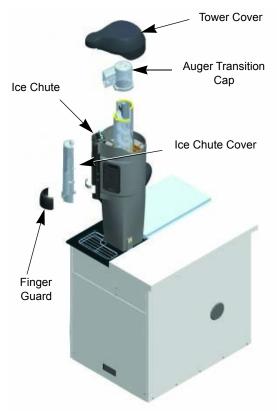


Figure 3



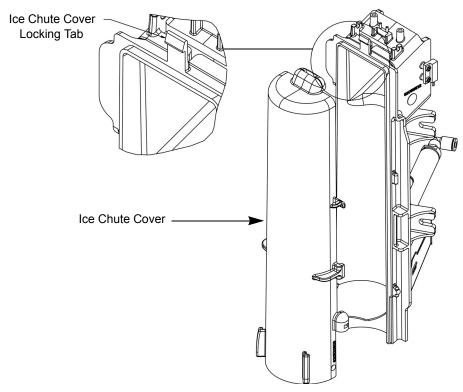


Figure 4

Monthly Maintenance

Clean and sanitize the hopper interior and auger assembly.

Cleaning Interior Surfaces



CAUTION: When pouring liquids into the hopper, do not exceed the rate of 1/2 gallon per minute.

IMPORTANT: Perform the following procedure at least once a month.

- 1. Open right hand hopper cover and remove all ice from hopper.
- 2. Remove the agitator disk and agitator assembly.
- 3. Remove the tower cover. (See Figure 5.)
- 4. Move the retaining bail to the rear of the tower. This allows removal of the auger transition cap.
- 5. The auger tubes are in two halves. Slowly pull up and remove front half of auger tube, then the back half of the auger tube.
- 6. Grasp the ice auger by the shaft end and slowly pull it up and out. It may be necessary to lean the auger forward during removal to avoid hitting the ceiling.
- 7. Remove the front panel of the cabinet below the hopper, this provides access to the lower auger drive area and the passage between the hopper and the auger for cleaning.
- 8. Using the previously prepared soap solution to clean the hopper cover, agitator disk and agitator assembly, interior of the hopper, both halves of the ice chute, auger, auger tubes, and the lower auger area of the auger housing. Thoroughly rinse all parts with potable water. Spray all components with sanitizing solution and allow to air dry.
- 9. Reassemble the agitator assembly and disc into the hopper. Make certain that the retaining screw is tight.
- 10. Reinstall the auger.

NOTE: The bottom of the auger has a depression in the shape of a D. When replacing the auger, it will be necessary to rotate the auger after insertion in the tube to engage the motor shaft. Make



certain that the auger slips into it drive pin. Auger transition cap will not assemble properly if the auger is not seated on its drive pin.

- 11. Reinstall the two auger tube halves.
- 12. Replace the auger transition cap onto the auger and lock it down by snapping the retaining bail onto the auger transition cap. Reinstall the tower cover.
- 13. Close the hopper access cover.

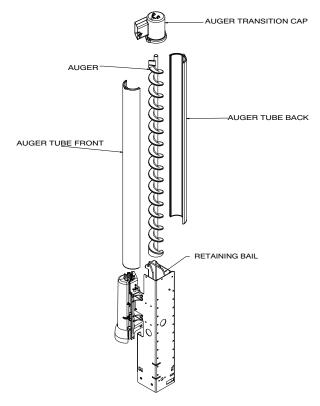


Figure 5

SPECIFICATIONS

Model: UC100 Progate Ice Storage: 100 lbs

Electrical: 120/1/60, 3 amps total unit draw

CO₂ or Air: 100 psi max to unit regulated to 65 psi (4.48 bar) to Progate ice gate system

Dimensions: 24-3/16 in. Wide; 30-3/8 in. Deep

27 in. Below Countertop; 28 in. Above Countertop



TROUBLESHOOTING

IMPORTANT: Only qualified personnel should service internal components or electrical wiring.



WARNING: If repairs are to be made to the ${\rm CO_2}$ or air system, stop dispensing, shut off the ${\rm CO_2}$ or air supply, then relieve the system pressure before proceeding. If repairs are to be made to the ice dispensing system, make sure electrical power is disconnected from the unit.

Trouble	Probable Cause			Remedy				
NOTE: Should your unit fail to operate properly, check that there is power to the unit and that the hopper contains ice. If the unit does not dispense, check the following chart under the appropriate symptom(s) to aid in locating the defect.								
BLOWN FUSE OR	A.	Short circuit in wiring (115V circuit).	A.	Contact service agent.				
CIRCUIT BREAKER.	B.	Defective agitator motor.	B.	Contact service agent.				
SLUSHY ICE. WATER IN	A.	Blocked drain.	A.	Open-up/flush out drain.				
HOPPER	B.	Unit not level.	B.	Level unit.				
	C.	Poor ice quality due to water quality or ice maker problems.	C.	Contact service agent. For Icemaker problems, consult icemaker service agent.				
	D.	Improper use of flaked ice.	D.	Replaced flaked ice with cube style ice.				
NO ICE DISPENSED	Α.	Insufficient ice supply in ice bin.	A.	Replenish ice supply as required.				
	B.	Ice in ice bin bridged (stuck together).	B.	Gently tap on ice to break it loose.				
	C.	No electrical power to dispenser.	C.	Plug in dispenser power cord, or check fuse or circuit breaker.				
	D.	Insufficient or no CO ₂ or air supply to dispenser.	D.	Restore CO ₂ or air supply to dispenser.				
	E.	Ice chute cover not properly installed.	E.	Make sure that cover is "snapped" into place.				
	F.	Defective interlock switches.	F.	Contact service agent.				
	G.	Defective interlock relay.	G.	Contact service agent.				
	Н.	Defective 24V transformer.	Н.	Contact service agent.				
	I.	Defective keypad.	I.	Contact service agent.				
	J.	Defective ice gate cylinder.	J.	Contact service agent.				
	K.	Defective ice gate solenoid valve.	K.	Contact service agent.				
	L.	Defective agitation timer board.	L.	Contact service agent.				
	M.	Defective agitator motor start capacitor	М.	Contact service agent.				
	N.	Hopper covers not properly installed/ closed.	N.	Make sure covers are in place and closed.				
NO ICE DISPENSED FROM MANUAL ICE	A.	Insufficient or no CO ₂ or air supply to dispenser.	A.	Restore CO ₂ or air supply to dispenser.				
DISPENSE	B.	Defective 24VAC transformer.	B.	Contact service agent.				
PUSHBUTTON SWITCH	C.	Defective keypad.	C.	Contact service agent.				
	D.	Defective agitator motor or start capacitor.	-D.	Contact service agent.				
	E.	Defective ice gate cylinder.	E.	Contact service agent.				
ICE DISPENSING DURING AUTOMATIC AGITATION	A.	Defective ice gate cylinder.	A.	Contact service agent.				
	B.	Defective ice gate solenoid valve.	B.	Contact service agent.				
	C.	Defective keypad.	C.	Contact service agent.				



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