

INSTALLATION MANUAL

Starbucks UC100 Progate Ice Dispenser

DESCRIPTION

The UC100 Progate ice dispenser solves your ice service needs in a sanitary, space saving, economical way. Designed to be manually filled with Ice-O-Matic half cube ice.



CAUTION: The dispenser cannot be used with crushed or flaked ice. Use of bagged ice which has frozen into large chunks can void warranty. The dispenser agitator is not designed to be an ice crusher. Use of large chunks of ice which “jam up” inside the hopper will cause failure of the agitator motor and damage to the hopper.

Specifications

Model:	UC100 Progate
Ice Storage:	100 lbs
Electrical:	120/1/60, 3 amps total unit draw
CO ₂ or Air Requirements:	100 psi max to unit regulated to 50 psi (3.4 bar) to Progate ice gate system
Dimensions:	24" Wide 30" Deep 27" Below Countertop 28" Above Countertop

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 — CO₂ Displaces Oxygen. Strict Attention **must** be observed in the prevention of CO₂ gas leaks in the entire CO₂ and soft drink system. If a CO₂ 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 CO₂ 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.

INSTALLATION INSTRUCTIONS

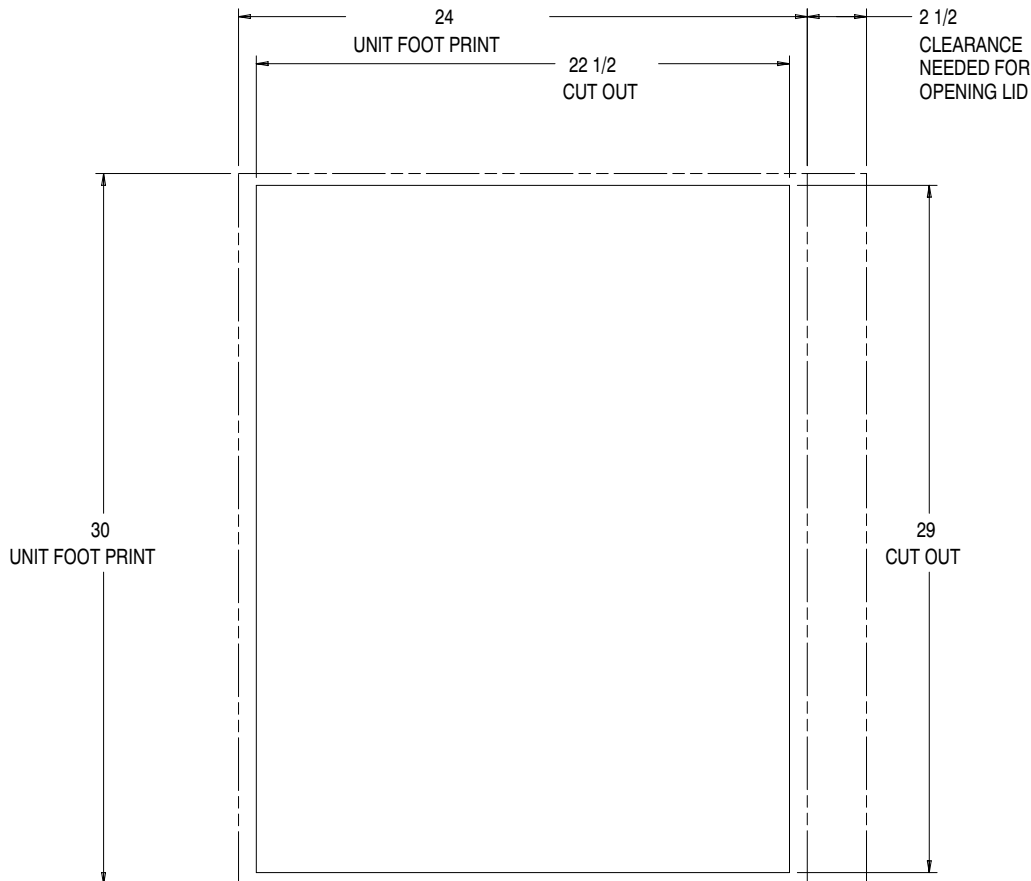
IMPORTANT: It is the responsibility of the Installer to ensure that the water supply to the dispensing equipment is provided with protection against backflow by an air gap as defined in ANSI/ASME A112. 1.2-1979; or an approved vacuum breaker or other such method as proved effective by test.

1. Locate the dispenser indoors on a level counter top.
 - A. Caster Option

Unpack the four (4) casters and install them into the threaded holes provided in the bottom of the unit. The installer must provide flexibility in the product and utility supply to permit shifting the position of the dispenser sufficiently to clean the area beneath it.
 - B. Counter Mounting

The ice dispenser must be sealed to the counter. The mounting template (see FIGURE 1) indicates where openings can be cut in the counter. Locate the desired position for the dispenser, then mark the outline dimensions on the counter using the template drawings. Cut openings in counter.

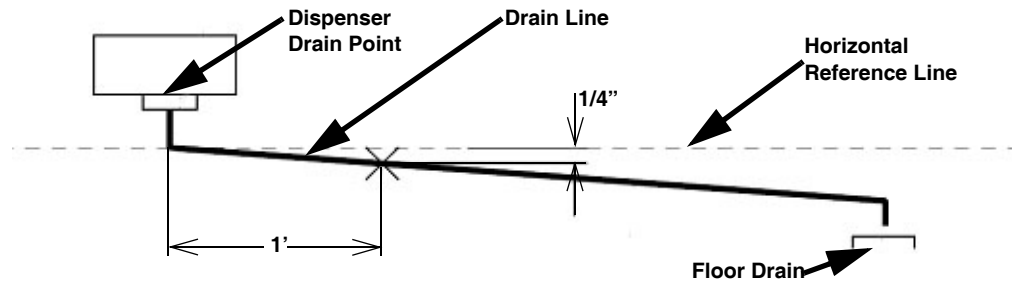
Apply a continuous bead of *NSF International* (NSF) silastic sealant (Dow 732 or equal) approximately 1/4-inch inside of the unit outline dimensions and around all openings. Then, position the unit on the counter within the outline dimensions. All excess sealant must be wiped away immediately.
2. The drain lines, power cord and air supply are routed through the openings in the bottom of the unit.



THIS FIGURE SHOWS THE REQUIRED CUTOUT FOR PLACING THE ICE DISPENSER INTO A COUNTER TOP. THE SOLID LINE IS THE ACTUAL CUTOUT DIMENSIONS WHILE THE DASHED LINE SHOWS THE UNIT FOOT PRINT

FIGURE 1

- The dispenser drain lines must slope a minimum of 1/4" per foot to the floor drain, see FIGURE 2. Drain lines must be installed to comply with federal, state and local codes. **It is required to fully insulate all drain lines and fittings to prevent condensation from forming!!!**


FIGURE 2

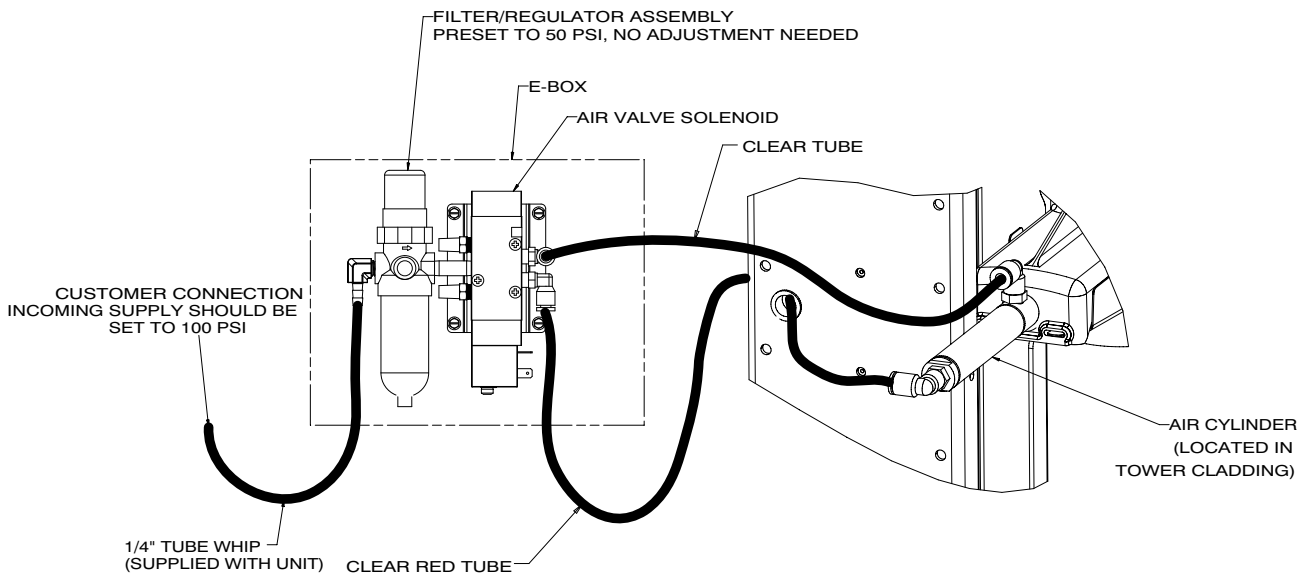
If the unit is installed in a: 36" tall counter top, the floor drain must be within 23' of the dispenser.
 34" tall counter top, the floor drain must be within 15' of the dispenser.
 30" tall counter top, the floor drain must be within 1' of the dispenser.

- Clean the hopper interior (see CLEANING INSTRUCTIONS in Operator's Manual).
- Connect the power cord to a 120 volt, 60 cycle, 15-Amp, 3-wire grounded receptacle.

Set Up Supplied Air Compressor

- Set up and install the air compressor, follow the manufacturer's installation instructions.
- Route the 1/4" beverage tube from the air compressor to the air valve solenoid inlet tube connector on the dispenser.

NOTE: The filter/regulator is preset to 50 psi and should not require adjustment.


AIR SCHEMATIC
FIGURE 3

Adjust Carbonator CO₂ Regulator (if applicable)

CAUTION: Before connecting the CO₂ regulator assembly to a CO₂ cylinder, turn the regulator adjusting screw to the left (counterclockwise) until all tension is relieved from the adjusting screw spring.

1. Open (counterclockwise) CO₂ cylinder valve slightly to allow lines to slowly fill with gas, then open the valve fully to back-seat the valve. (Back-seating the valve prevents leakage around the valve shaft).
2. The CO₂ regulator is fixed at a nominal 100 psi.
3. Route the 1/4" beverage tube from the CO₂ regulator to the air valve solenoid inlet tube connection.

NOTE: The filter/regulator is preset to 50 psi and should not require adjustment.

UNIT OPERATION



WARNING: The unit must be electrically grounded to avoid possible fatal electrical shock or serious injury to the operator. The unit power cord is equipped with a three-prong plug. If a three-hole (grounded) electrical outlet is not available, use an approved method to ground the unit.

1. Fill the hopper with ice.
2. Connect electrical power to the dispenser. The dispenser will enter the Prime mode and fill the ice chute completely full.
3. Check for air and CO₂ leaks and tighten any loose connections.
4. Push one of the "V" buttons on the keypad to dispense a large (Venti) cup of ice. This ensures the ice chute is completely full.

Keypad Button Description

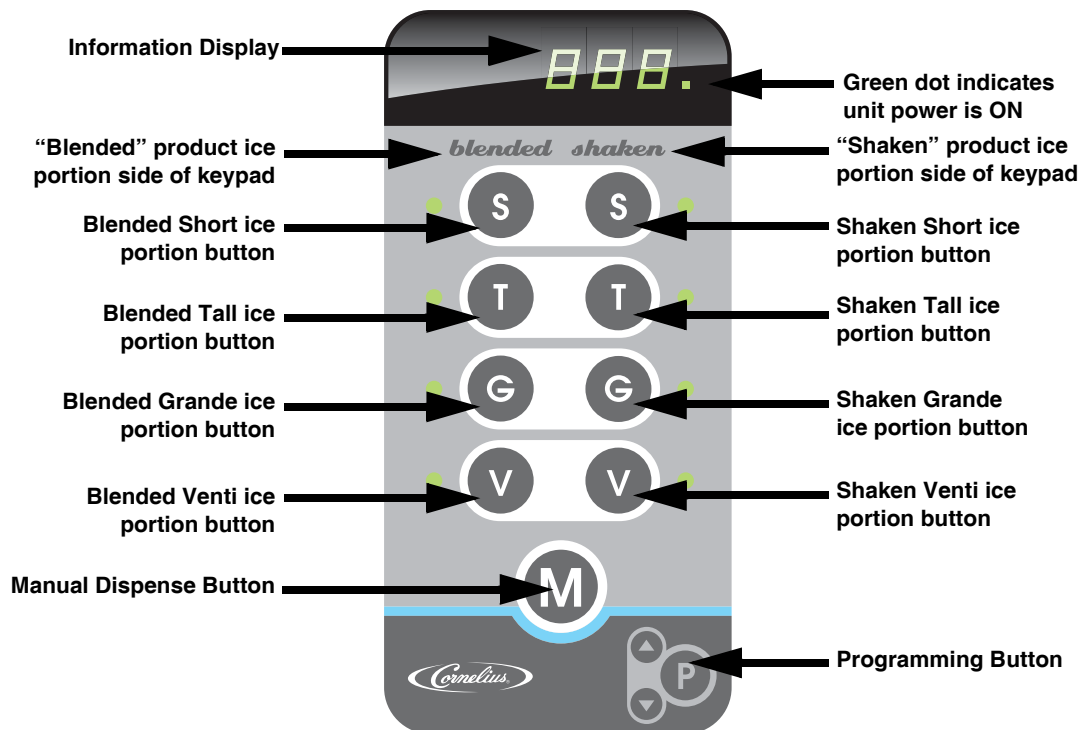


FIGURE 4

Keypad Function 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.

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. Dispense a large cup of ice. Repeat this procedure whenever the dispenser has run out of ice. This insures that the ice chute is completely filled before use.



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.

If the dispenser fails to dispense ice, see troubleshooting guide.

Programming the Ice Weight Portion

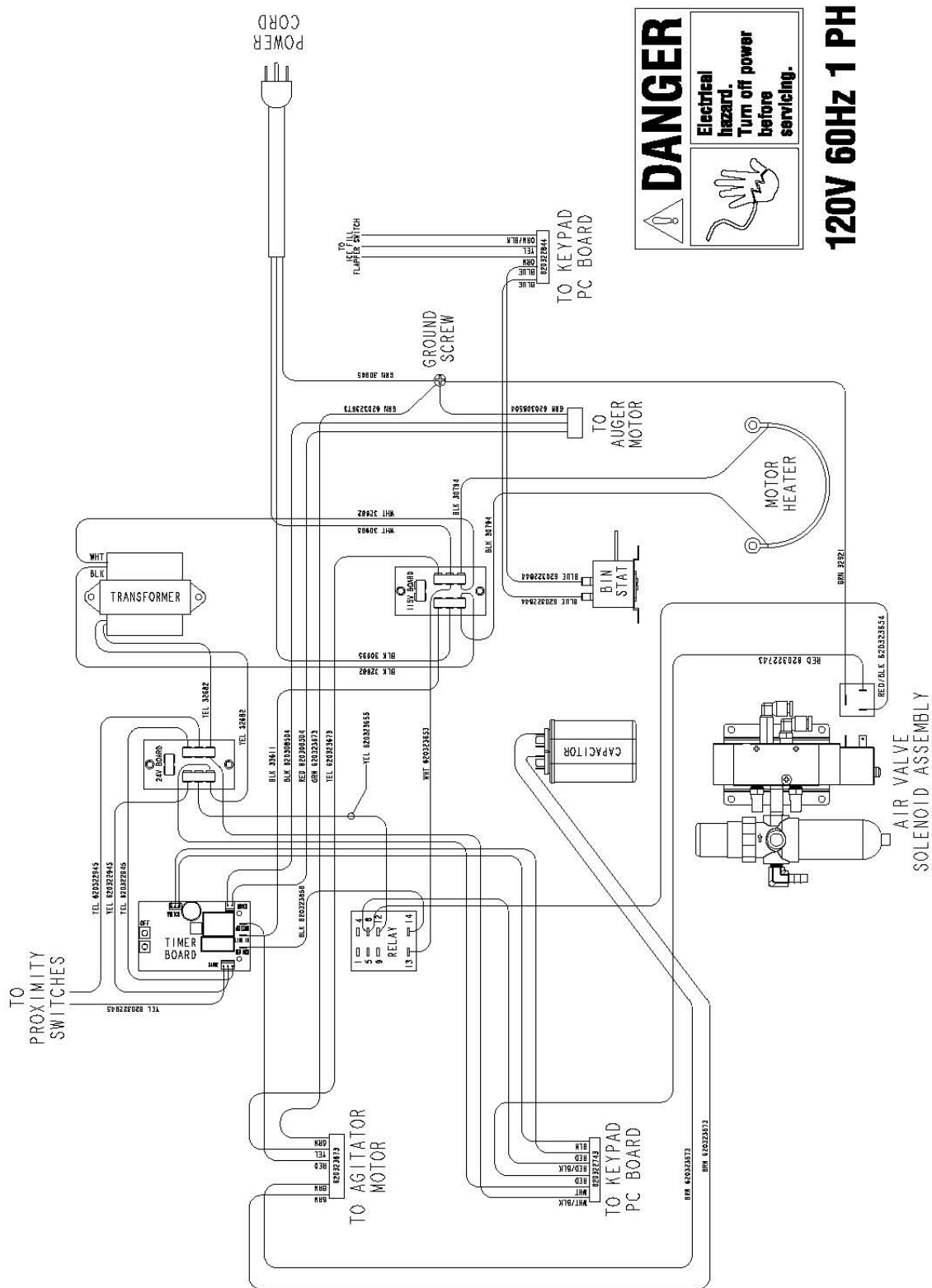
The ice weight portion setting is factory set for each portion size or keypad button. Follow the instructions below to increase or decrease the amount of ice dispensed for a portion size.

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 will increase/decrease the duration by 5ms.
4. Press the corresponding size button currently being programed until the green LED stops flashing.

- 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 will resume and any changes will not be saved.



DANGER
 Electrical hazard. Turn off power before servicing.

120V 60HZ 1 PH

FIGURE 5

TROUBLESHOOTING

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



WARNING: If repairs are to be made to the CO₂ or air system, stop dispensing, shut off the CO₂ 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
<p>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.</p>		
BLOWN FUSE OR CIRCUIT BREAKER.	A. Short circuit in wiring (115V circuit). B. Defective agitator motor.	A. Contact service agent. B. Contact service agent.
SLUSHY ICE. WATER IN HOPPER	A. Blocked drain. B. Unit not level. C. Poor ice quality due to water quality or ice maker problems. D. Improper use of flaked ice.	A. Open-up/flush out drain. B. Level unit. C. Contact service agent. For Icemaker problems, consult icemaker service agent. D. Replaced flaked ice with cube style ice.
NO ICE DISPENSED	A. Insufficient ice supply in ice bin. B. Ice in ice bin bridged (stuck together). C. No electrical power to dispenser. D. Insufficient or no CO ₂ or air supply to dispenser. E. Ice chute cover not properly installed. F. Defective interlock switches. G. Defective interlock relay. H. Defective 24V transformer. I. Defective keypad. J. Defective ice gate cylinder. K. Defective ice gate solenoid valve. L. Defective agitation timer board. M. Defective agitator motor start capacitor. N. Hopper covers not properly installed/closed.	A. Replenish ice supply as required. B. Gently tap on ice to break it loose. C. Plug in dispenser power cord, or check fuse or circuit breaker. D. Restore CO ₂ or air supply to dispenser. E. Make sure that cover is "snapped" into place. F. Contact service agent. G. Contact service agent. H. Contact service agent. I. Contact service agent. J. Contact service agent. K. Contact service agent. L. Contact service agent. M. Contact service agent. N. Make sure covers are in place and closed.
NO ICE DISPENSED FROM MANUAL ICE DISPENSE PUSHBUTTON SWITCH	A. Insufficient or no CO ₂ or air supply to dispenser. B. Defective 24VAC transformer. C. Defective keypad. D. Defective agitator motor or start capacitor. E. Defective ice gate cylinder.	A. Restore CO ₂ or air supply to dispenser. B. Contact service agent. C. Contact service agent. D. Contact service agent. E. Contact service agent.
ICE DISPENSING DURING AUTOMATIC AGITATION	A. Defective ice gate cylinder. B. Defective ice gate solenoid valve. C. Defective keypad.	A. Contact service agent. B. Contact service agent. C. Contact service agent.

