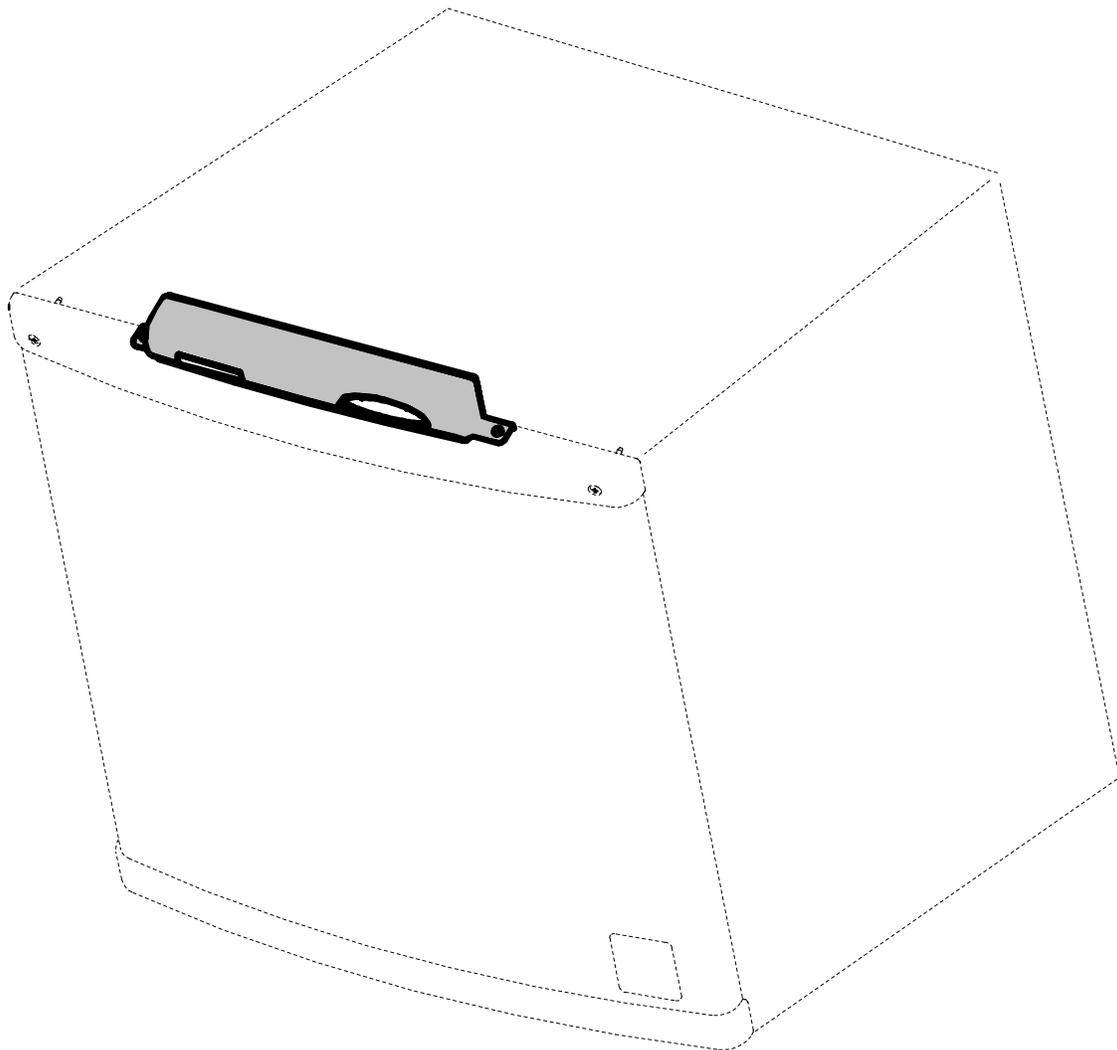




# **GUARDIAN™ GSI200**

## **Installation Use and Care**

### **Manual**



Thank you for selecting a Manitowoc Guardian™ Slime Inhibitor. With proper installation, care and maintenance, your new Manitowoc Guardian™ GSI200 will provide you with many years of reliable and economical performance.



## Model Numbers

The GSI200 is compatible with the following ice machine models:

### Q MODELS

Self-Contained Air-Cooled	Self-Contained Water-Cooled	Remote Air Cooled		
		N = Traditional	C = QuietQube	
QR0200A QD0202A QY0204A	QR0201W QD0203W QY0205W			
QR0280A QD0282A QY0284A	QR0281W QD0283W QY0285W			
QR0320A QD0322A QY0324A	QR0321W QD0323W QY0325W			
QD0372A QY0374A	QD0373W QY0375W			
QR0420A QD0422A QY0424A	QR0421W QD0423W QY0425W			
QR0450A QD0452A QY0454A	QR0451W QD0453W QY0455W	QR0490N QD0492N QY0494N		
QR0600A QD0602A QY0604A	QR0601W QD0603W QY0605W	QR0690N QD0692N QY0694N	QR0690C QD0692C QY0694C	IB0624YC IB0622DC
QR0801M QD0802A QY0804A	QR0801W QD0803W QY0805W	QR0890N QD0892N QY0894N	QR0890C QD0892C QY0894C	IB0824YC IB0822DC
QR1000A QD1002A QY1004A	QR1001W QD1003W QY1005W	QR1090N QD1092N QY1094N	QR1090C QD1092C QY1094C	IB1024YC IB1022DC
QR1300A QD1302A QY1304A	QR1301W QD1303W QY1305W	QR1390N QD1392N QY1394N		
NA	QD1603W QY1605W	QD1692 QY1694N		
QR1800A QD1802A QY1804A	QR1801W QD1803W QY1805W	QR1890N QD1892N QY1894N		

## J MODELS

Self-Contained Air-Cooled	Self-Contained Water-Cooled	Remote N = Traditional
JR0200A JD0202A JY0204A	JR0201W JD0203W JY0205W	
JR0320A JD0322A JY0324A	JR0321W JD0323W JY0325W	
JR0420A JD0422A JY0424A	JR0421W JD0423W JY0425W	
JR0450A JD0452A JY0454A	JR0451W JD0453W JY0455W	JR0490N JD0492N JY0494N
JR0600A JD0602A JY0604A	JR0601W JD0603W JY0605W	JR0690N JD0692N JY0694N
JR0800A JD0802A JY0804A	JR0801W JD0803W JY0805W	JR0890N JD0892N JY0894N
JR1000A JD1002A JY1004A	JR1001W JD1003W JY1005W	JR1090N JD1092N JY1094N
JR1300A JD1302A JY1304A	JR1301W JD1303W JY1305W	JR1390N JD1392N JY1394N
JR1800A JD1802A JY1804A	JR1801W JD1803W JY1805W	JR1890N JD1892N JY1894N

## B MODELS

Self-Contained Air-Cooled	Self-Contained Water-Cooled	Remote N = Traditional
BR0200A BD0202A BY0204A	BR0201W BD0203W BY0205W	
BR0320A BD0322A BY0324A	BR0321W BD0323W BY0325W	
BR0420A BD0422A BY0424A	BR0421W BD0423W BY0425W	
BR0450A BD0452A BY0454A	BR0451W BD0453W BY0455W	BR0490N BD0492N BY0494N
BR0600A BD0602A BY0604A	BR0601W BD0603W BY0605W	BR0690N BD0692N BY0694N
BR0800A BD0802A BY0804A	BR0801W BD0803W BY0805W	BR0890N BD0892N BY0894N
BR1000A BD1002A BY1004A	BR1001W BD1003W BY1005W	BR1090N BD1092N BY1094N
BR1300A BD1302A BY1304A	BR1301W BD1303W BY1305W	BR1390N BD1392N BY1394N
BR1800A BD1802A BY1804A	BR1801W BD1803W BY1805W	BR1890N BD1892N BY1894N

## Warranty

### LABOR COVERAGE

Labor to replace any defective part is not included.

### PARTS COVERAGE:

Sachet packets and batteries are excluded from the warranty.

Parts that contain defects in material or workmanship are covered for a period of one (1) year under normal use and service.

### EXCLUSIONS

The following items are not included in part warranty coverage:

Damage from improper installation, misuse or abuse, unauthorized modifications, acts of God, or lack of normal maintenance.

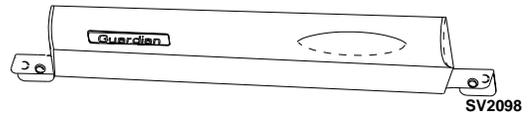
This product is intended exclusively for commercial application. No warranty is extended for personal, family, or household purposes.

## General Information

Slime is a leading cause of ice machine breakdowns and biological growth is a health concern. Manitowoc's Guardian System releases chlorine dioxide on a controlled basis to inhibit the growth of bacteria and fungi that form slime and cause malodors in the food zone of ice machines.

The ice machine and bin/dispenser must be cleaned and sanitized before initial installation of the Guardian system. The GSI200 will not control mineral or other water borne buildup. Your water quality will determine the length of time before mineral buildup affects ice machine performance. Mineral buildup must be removed as often as necessary to ensure trouble-free operation of the ice machine.

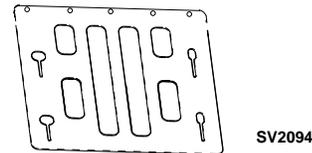
## List of kit items



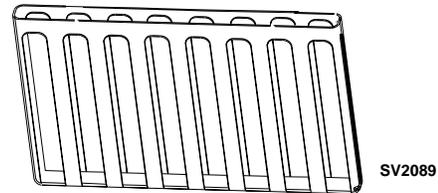
1. Timer Housing Assembly(1)



2. Timer Housing Back Cover (1)



3. Sachet Holder Mounting Plate (1)



4. Sachet Bag Holder (1)
5. Small Parts Bag
  - a. Batteries (2-AA)
  - b. Screws Pan Head (6)
  - c. Screw Flat Head (2)
6. Installation, Use and Care Manual (1)
7. Ice Sentry™ Sachet (1)

## ICE SENTRY™ SACHET REPLACEMENT FREQUENCY

Ice Sentry™ Sachet packet(s) require replacement every thirty (30) days or whenever they come in direct contact with water. Refer to chart below for requirements.

Ice Machine Model Q - IB - J - B	200 Gram Ice Sentry™ Sachet (K00206)
200 280 320 370 420 450	Use 1
600 800 1000 1300 1600 1800	Use 1 or 2*

\*Although one Ice Sentry™ sachet is recommended, extreme conditions may necessitate using two sachet packets.

A green light will blink once every 7 seconds for 30 days. After thirty (30) days the green light de-energizes and a red light energizes and blinks every 4 seconds. The red light indicates that the Ice Sentry™ sachet packet(s) are due for replacement.

The timer receives power from two (2) AA batteries. Battery life is approximately three (3) years.

A reset button is located on the rear of the timer housing. After replacing the Ice Sentry™ sachet packet(s), press and hold the button for 3 seconds to reset the 30-day timer, then release the button.

Ice Sentry™ Sachet replacement packets are available through your local Manitowoc ice machine dealer.

## ICE SENTRY™ SACHET REPLACEMENT PROCEDURE

The size of the refill Ice Sentry™ sachet required is based on the amount of ice produced and depends upon the actual conditions of use. Most applications require one 200-gram Ice Sentry™ sachet; extreme conditions may necessitate two Ice Sentry™ sachets.

1. Remove front panel from ice machine.
2. Remove and discard spent Ice Sentry™ sachet packets.
3. Remove Ice Sentry™ sachet from foil package and install into holder. Removing the foil packet allows the moisture in the air to activate the packet contents.
4. A reset button is located on the rear of the timer housing. After replacing the sachet packet(s), press and hold the button for 3 seconds to reset the 30-day timer, then release the button. The green light will blink every 7 seconds for another 30 day period.
5. Reinstall ice machine front panel.
6. Discard used Ice Sentry™ sachet in trash.

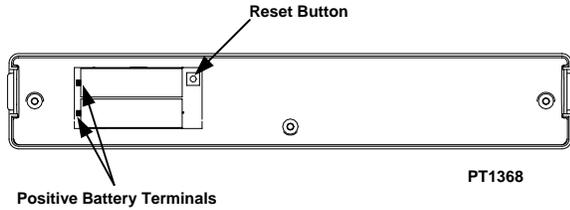
## CLEAN UP PROCEDURE FOR DAMAGED SACHET PACKET

1. Remove all ice from bin/dispenser and discard.
2. Initiate a cleaning and sanitizing sequence on the ice machine (refer to Ice Machine Installation, Use and Care Manual).
3. Clean the bin/dispenser. Flush the drain thoroughly to prevent future drain blockage.
4. Sanitize the bin/dispenser.
5. Install a replacement sachet packet and reinstall all covers.

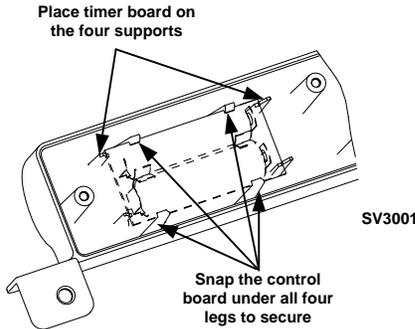
Assembly Instructions

ALL MODELS

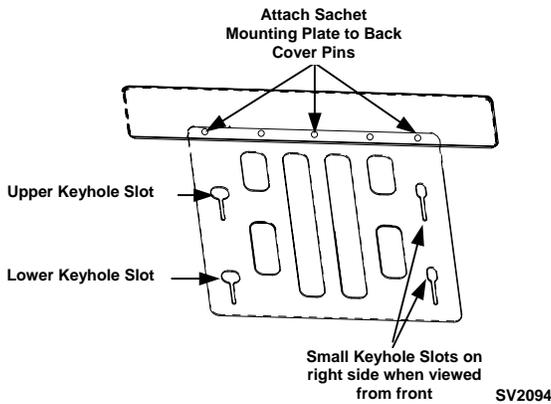
1. Install two (2) AA batteries in timer housing noting proper polarity (+/-).



Verify timer circuit board is in the correct position. The circuit board is incorrectly positioned if both lights (red and green) flash at the same time when the rear cover is installed. Snapping the control board under all four legs will correctly position the control board.

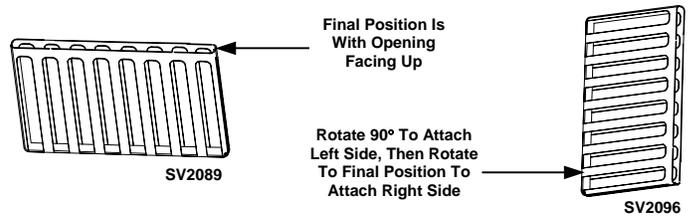


2. Verify the small key slots are on the right side when viewed from the front of the timer housing. Align sachet holder mounting plate holes with pins in the timer cover housing and snap into place.



3. Use four pan head screws to secure the back cover/sachet mounting plate to the timer housing.

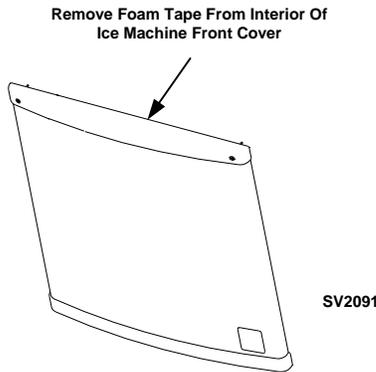
4. Attach sachet holder to mounting plate. Final assembly will be with sachet holder opening facing up.
  - a. Rotate sachet holder 90° clockwise.
  - b. Refer to table to determine if upper or lower keyhole slots are used. Place left side pin in the sachet mounting plate keyhole.
  - c. Rotate sachet holder 90° counterclockwise and place right side pin in keyhole slot.
  - d. Push sachet holder down into keyhole slots to secure.



Model	Correct Keyhole Slot
Q, J or B 200/280/320/370/420	Use <b>lower</b> keyhole slots
Q, J or B 450/600/800/ 1000/1300/1600/1800	Use <b>upper</b> keyhole slots
QuietQube Models Q600C/Q800C/Q1000C IB600C/IB800C/IB1000C	Use <b>upper</b> keyhole slots

5. Remove front cover from ice machine.
6. Clean and sanitize ice machine and bin/dispenser.

- Remove 13" (33 cm) foam tape from interior of front panel. Refer to chart below for location.

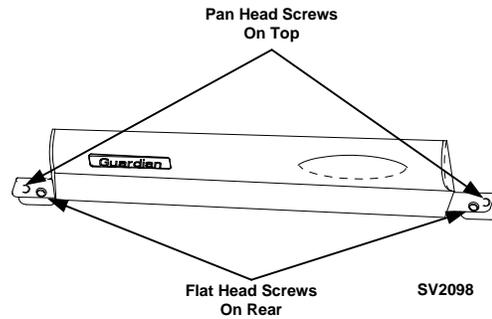


<b>Model Q320/370/420 or Q, J or B 450/600/800/1000/1300/1600/1800 QuietQube Models Q600C/Q800C/Q1000C</b>
GSI200 will be centered on the front panel. Measure 6.5" (16.5 cm) left and right of center
<b>Model Q200/280 or J - B 200/320/420</b>
GSI200 will be offset 1/2" (1.27 cm) on the front panel. Measure 6.0" (15 cm) left and 7.0 (17.8 cm) right of center. Verify the ice machine control box cover screw aligns with a slot in the sachet holder. This prevents bulging of the front panel.
<b>QuietQube® Models IB600C/IB800C/IB1000C</b>
GSI200 will be offset 3.5" (8.9 cm) to the left on the front panel. Measure 10.0" (25.4 cm) left and 3.0 (7.6 cm) right of center. Verify the GSI200 does not interfere with the water curtain (at the ice thickness probe).

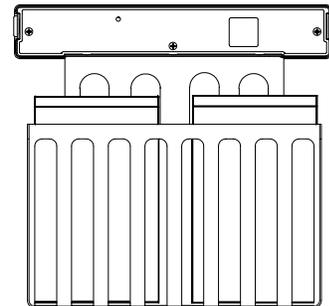
- Remove backing from double-sided tape on the bottom of the timer housing.
- Locate the timer housing on the front panel where the foam tape was removed in step 7, then press to seal tape.
- Mark and drill four 3/32" pilot holes (two on top, two at rear). Secure timer to front cover with screws.

Top - Use two pan head screws

Rear - Use two flat head screws

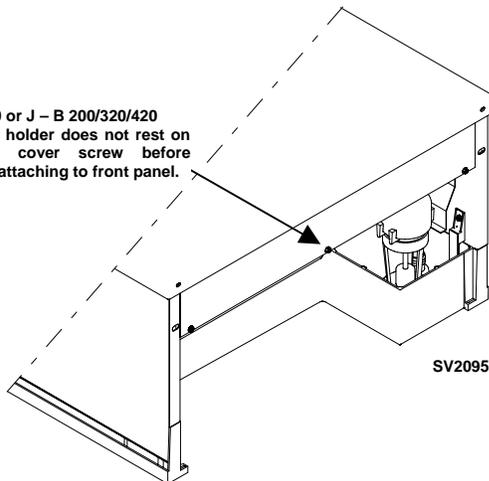


- Remove Ice Sentry™ sachet packet(s) from foil package and install into holder. Removing the foil packet allows the moisture in the air to activate the packet contents.



- Replace ice machine front cover

Q200/280 or J - B 200/320/420  
Verify sachet holder does not rest on control box cover screw before permanently attaching to front panel.



We reserve the right to make product improvements at any time.

Specifications and design are subject to change without notice.

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