

SPECIFICATIONS

| | |
|---------------------------|--|
| Sensor Range: | 12" to 60" (adjustable) |
| Battery Type : | AA Alkaline Batteries |
| Battery Life: | Three years at 4,000 flushes per month |
| Flush Volume: | ZR6000 – 4.5 gallons per flush ZR6000-WS – 3.5 gallons per flush ZR6000-WS1 – 1.6 gallons per flush ZR6001 – 3.0 gallons per flush ZR6003-WS – 1.5 gallons per flush ZR6003-WS1 – 1.0 gallons per flush |
| Voltage: | 6VDC |
| Operating Water Pressure: | 20-80 psi |
| Courtesy Flush: | Flush at the beginning of the detection cycle (switchable) |
| Automatic Flush: | Flush 24 hours after the last use (switchable) |
| Maintenance Override: | Magnetic flush triggering or inhibiting switch |
| Indicator Light: | Range Adjustment (first ten minutes) Low Battery Indication Reflective surface in view for greater than 30 minutes |
| Reset Switch: | To restart ten-minute range adjustment cycle To enter option changes in the electronics after repositioning switches |
| Operating Temperature: | 35°F to 104°F (2°C to 40°C) |
| Outside Case and Cover: | Chrome-Plated Die Casting |

OPERATION

1. Invisible light rays are continually emitted from the RetroFlush sensor.
2. When the user comes into range of the sensor's detection zone (range 12 to 60 inches), the beam is reflected back to the sensor's receiver and changed into a low voltage electrical signal that activates an eight-second time delay circuit. This time delay prevents the unit from activating from a passerby in the restroom. Once this circuit is completed, the output circuit is signaled and continues in a "hold" mode for as long as the user remains within range of the sensor. User must be in sensor range for at least 10 seconds.
3. After the user moves away from the sensor, the absence of reflected light starts an electrical "one-time" signal that operates the solenoid operator (6VDC) and activates the flushing cycle to flush the fixture. The circuit then automatically resets for the next user.

IMPORTANT NOTE: The Zurn AquaVantage is engineered for quiet operation. Excessive water flow creates noise, while too little water flow may not satisfy the needs of the fixture. Proper adjustment of stop valve is made when:

1. The plumbing fixture is cleansed after each flush without splashing water out from the lip.
2. A quiet flushing cycle is achieved.

After adjustment of the stop adjusting screw, replace the Zurn stop cap screw cover.

CARE AND CLEANING INSTRUCTIONS

Do not use abrasive or chemical cleaners to clean flushometers as they may dull the luster and attack the chrome or special decorative finishes. Use only mild soap and water, then wipe dry with a clean cloth or towel. While cleaning the bathroom tile, the flushometer should be protected from splattering of cleaner. Acids and cleaning fluids can discolor or remove chrome plating.

TROUBLE SHOOTING GUIDE

| PROBLEM | CAUSE | SOLUTION |
|--|---|---|
| Valve will not operate. | Water supply shut off | Turn on water supply, check control stop and supply |
| | Sensor range adjustment set too short | Increase sensor range adjustment |
| | Expired batteries | Replace batteries |
| | Difficulty with electronic control module | Check batteries. If problem continues, consult factory. |
| Red light flashes when user is not present. | Solenoid problem | Replace solenoid |
| | Obstruction in front of the sensor | Remove the obstruction |
| Red light flashes when user comes into view. | Sensor range set too long | Shorten sensor range |
| | Sensor is detecting opposite wall | |
| | Batteries about to expire | Replace batteries |
| Valve does not shut off. | Unit is in start-up mode | Light will stop in 10 minutes |
| | Range adjustment reset button was pressed | Light will stop in 10 minutes |
| | Dirt in diaphragm bypass hole | Clean bypass hole |
| Not enough water to fixture. | Dirt or debris at valve seat or sealing area | Clean valve seat and clean diaphragm kit |
| | Solenoid problem | Replace solenoid |
| | Wrong RetroFlush unit installed | Check fixture requirements. Install proper RetroFlush unit. |
| | Control stop improperly adjusted | Adjust control stop |
| | Riser tube filter plugged | Clean filtered riser tube S |
| Too much water for fixture. | Diaphragm damaged | Replace diaphragm |
| | Solenoid problem | Replace solenoid |
| | Wrong RetroFlush unit installed | Install proper RetroFlush unit. Check fixture requirements. |
| | Control stop improperly adjusted | Adjust control stop |
| | Dirt in diaphragm bypass hole | Clean or replace diaphragm |
| Water drips from chrome cap. | The plastic cover has been cracked by freezing or abuse | Replace plastic cover |
| | The chrome cap is not tight | Tighten chrome cap |

Note: For more detailed trouble-shooting, refer to FV1138 or call customer service at 1-800-997-3876.



ZURN INDUSTRIES, INC. COMMERCIAL BRASS OPERATION, 5900 ELWIN BUCHANAN DRIVE, SANFORD, NC, U.S.A. 27330
 PHONE: 1-800-997-3876 FAX: 919/775-3541 WEBSITE: www.zurn.com

ZURN INDUSTRIES LIMITED 3544 NASHUA DRIVE, MISSISSAUGA, ONTARIO L4V 1L2 PHONE: 905/405-8272 FAX: 905/405-1292

SPECIFICATIONS

| | |
|---------------------------|--|
| Sensor Range: | 12" to 60" (adjustable) |
| Battery Type : | AA Alkaline Batteries |
| Battery Life: | Three years at 4,000 flushes per month |
| Flush Volume: | ZRK-C-1.6 – 1.6 gallons per flush ZRK-C-3.5 – 3.5 gallons per flush ZRK-C-4.5 – 4.5 gallons per flush ZRK-U-1.0 – 1.0 gallons per flush ZRK-U-1.5 – 1.5 gallons per flush ZRK-U-3.0 – 3.0 gallons per flush |
| Voltage: | 6VDC |
| Operating Water Pressure: | 20-80 psi |
| Courtesy Flush: | Flush at the beginning of the detection cycle (switchable) |
| Automatic Flush: | Flush 24 hours after the last use (switchable) |
| Maintenance Override: | Magnetic flush triggering or inhibiting switch |
| Indicator Light: | Range Adjustment (first ten minutes) Low Battery Indication Reflective surface in view for greater than 30 minutes |
| Reset Switch: | To restart ten-minute range adjustment cycle To enter option changes in the electronics after repositioning switches |
| Operating Temperature: | 35°F to 104°F (2°C to 40°C) |
| Outside Case and Cover: | Chrome-Plated Die Casting |

OPERATION

1. Invisible light rays are continually emitted from the RetroFlush sensor.
2. When the user comes into range of the sensor's detection zone (range 12 to 60 inches), the beam is reflected back to the sensor's receiver and changed into a low voltage electrical signal that activates an eight-second time delay circuit. This time delay prevents the unit from activating from a passerby in the restroom. Once this circuit is completed, the output circuit is signaled and continues in a "hold" mode for as long as the user remains within range of the sensor. User must be in sensor's range for at least 10 seconds.
3. After the user moves away from the sensor, the absence of reflected light starts an electrical "one-time" signal that operates the solenoid operator (6VDC) and activates the flushing cycle to flush the fixture. The circuit then automatically resets for the next user.

IMPORTANT NOTE: The Zurn AquaVantage is engineered for quiet operation. Excessive water flow creates noise, while too little water flow may not satisfy the needs of the fixture. Proper adjustment of stop valve is made when:

1. The plumbing fixture is cleansed after each flush without splashing water out from the lip.
2. A quiet flushing cycle is achieved.
3. Sensor units should not be located across from each other or in close proximity to highly reflective surfaces.

After adjustment of the stop adjusting screw, replace the Zurn stop cap screw cover.

CARE AND CLEANING INSTRUCTIONS

Do not use abrasive or chemical cleaners to clean flushometers as they may dull the luster and attack the chrome or special decorative finishes. Use only mild soap and water, then wipe dry with a clean cloth or towel. While cleaning the bathroom tile, the flushometer should be protected from splattering of cleaner. Acids and cleaning fluids can discolor or remove chrome plating.

TROUBLE SHOOTING GUIDE

| PROBLEM | CAUSE | SOLUTION |
|--|--|---|
| Valve will not operate. | Water supply shut off | Turn on water supply, check control stop and supply. |
| | Sensor range adjustment set too short | Increase sensor range adjustment |
| | Expired batteries | Replace batteries |
| | Difficulty with electronic control module | Check batteries. If problem continues, consult factory. |
| | Solenoid problem | Replace solenoid |
| Red light flashes when user is not present. | Obstruction in front of the sensor | Remove the obstruction |
| | Sensor range set too long Sensor is detecting opposite wall | Shorten sensor range |
| Red light flashes when user comes into view. | Batteries about to expire | Replace batteries |
| | Unit is in start-up mode | Light will stop in 10 minutes |
| | Range adjustment reset button was pressed | Light will stop in 10 minutes |
| Valve does not shut off. | Dirt in diaphragm bypass hole | Clean bypass hole |
| | Dirt or debris at valve seat or sealing area | Clean valve seat and clean diaphragm kit |
| | Solenoid problem | Replace solenoid |
| Not enough water to fixture. | Wrong RetroFlush unit installed | Install proper RetroFlush unit. Check fixture requirements. |
| | Control stop improperly adjusted | Adjust control stop |
| | Diaphragm damaged | Replace diaphragm |
| | Solenoid problem | Replace solenoid |
| Too much water for fixture. | Wrong RetroFlush unit installed | Install proper RetroFlush unit. Check fixture requirements. |
| | Control stop improperly adjusted | Adjust control stop |
| | Dirt in diaphragm bypass hole | Clean or replace diaphragm |
| Water drips from chrome cap. | The plastic cover has been cracked by freezing or abuse | Replace plastic cover |
| | The chrome cap is not tight | Tighten chrome cap. |
| RetroFlush kit does not fit handle port. | Sloan A-29 copper ring used as handle port gasket | Remove copper ring. |

Note: For more detailed trouble shooting, refer to FV1138 or call Customer Service at 1-800-997-3876.