OPTIMA® Sensor Activated Flushometer & HET Water Closet Model WETS-2220.1304 ST-2229 & Royal 153-1.28 ES-S TMO

▶ Code Number

22201304

▶ SPECIFICATIONS

Quiet, concealed, sensor activated diaphragm type, chrome plated closet Flushometer for either left or right hand supply and vitreous china ADA compliant floor mount water closet with the following features:

Flushometer and OPTIMA® ES-S TMO Unit

- OPTIMA® EL-1500-L Self-Adaptive Infrared Sensor with Indicator Light
- "Walk By" Delay of Eight (8) Seconds Prevents Unintentional Flushes
- Non-Hold-Open Integral Solenoid Operator
- Chrome Plated Wall Cover Plate and Die Cast Wall Flange (for 2-gang Electrical Box) with Vandal Resistant Screws
- High Copper, Low Zinc Brass Castings for Dezincification Resistance
- Diaphragm, Stop Seat and Vacuum Breaker to be molded from PERMEX® Rubber Compound for Chloramine Resistance
- Courtesy Flush® Non-Hold-Open True Mechanical Override Button
- 1" I.P.S. Screwdriver Bak-chek® Angle Stop
- Adjustable Tailpiece
- High Back Pressure Vacuum Breaker Flush Connection with Hex Coupling Nut,Spud Coupling, and Flanges for 1 1/2" Exposed Top Spud
- Sweat Solder Adapter with cover Tube and cast Wall Flange with Set Screw
- Fixed Metering Bypass and No External Volume Adjustment to Ensure Water conservation
- Flush Accuracy controlled by CID™ Technology

Valve Body, Cover, Tailpiece and Control Stop shall be in conformance with ASTM Alloy Classification for Semi-Red Brass. Valve shall be in compliance with the applicable sections of ASSE 1037.

- PERMEX® Synthetic Rubber Diaphragm with Dual-Filtered Fixed Bypass
- User-Friendly Three (3) Second Flush Delay

Fixture Specifications

- Integral flushing rim
- Recommended seats:
- Bemis - 1955CT/1955SSCT & 2155CT/2155SSCT
- Church - 295CT/295SSCT & 2155CT/2155SSCT
- Water spot area 9½" x 8¼"
- Floor mounted ADA compliant vitreous china elongated bowl
- Fixture bolts and caps included
- Seat not included
- 2 1/8" fully glazed trapway diameter
- 1½" IP.S. top spud inlet
- Compliant with Buy American Act when purchased as a combination
- Water closet compliant to the applicable sections of ASME

▶ FEATURES

Automatic

OPTIMA® equipped Flushometers provide the ultimate in sanitary protection and automatic operation. There are no handles to trip or buttons to push. The Flushometer operates by means of an infrared sensor that adapts to its surroundings. Once the user enters the sensor's effective range and then steps away, the Flushometer Solenoid initiates the flushing cycle to flush the fixture.

Economical

Automatic operation provides water usage savings over other flushing devices. Reduces maintenance and operation costs.

Practical

Solid state electronic circuitry assures years of dependable, trouble-free operation. The operational components of the Flushometer are identical to a handle activated Sloan® Flushometer, proven by over 100 years of experience.

Hygienic

User makes no physical contact with the Flushometer surface except to initiate the Override Button when required. Helps control the spread of infectious diseases . 24-Hour Sentinel Flush keeps fixture fresh during periods of nonuse.

▶ Compliance & Certifications

HET HIGH-EFFICIENCY TOILET

Made In The USA

Buy American Act Compliant

UPC C ®

This space for Architect/Engineer Approval

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A112.19.2/CSA B45.1

► Plumbing System Requirements

Maximum Static Pressure: 80 PSI

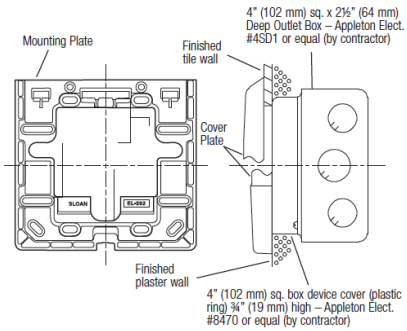
Minimum Flow Rate: 25 GPM

Minimum Flowing Pressure: 25 PSI

► WIRING DIAGRAM

Electrical Box Installation

Sensor location and positioning is critical. Failure to properly position the electrical boxes to the plumbing rough-in will result in improper installation and impair product performance. All tradesmen (plumbers, electricians, tile setters, etc.) involved with the installation of this product must coordinate their work to assure proper product installation. Installation template furnished with Flushometer.



Note: install plaster ring so that screw holes are on the left and right side of box. (View with cover removed)

To ensure a perfect rough-in, sloan recommends the use of the EL-485-A Flushometer electrical box positioning and support kit. Specify and order the EL-485-A kit separately. Consult factory for installation details.

► ELECTRICAL SPECIFICATIONS

Solenoid Operator

24 VAC, 50/60 Hz

Sensor Range

Self-adaptive Window ± 8"(203 mm)

Nominal 15"-30" (381 mm-762 mm), adjustable ± 8" (203 mm)

Control Circuit

Solid State

8 Second Arming Delay

24 VAC Input

24 VAC Output

24 Hour Sentinel Flush

Transformer Accessories

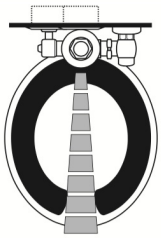
EL-154 Transformer (120 VAC/24 VAC 50 VA)

EL-342 Transformer (240 VAC/24 VAC 50 VA)

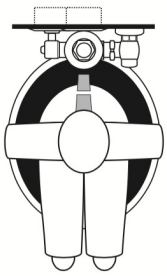
Valve Operating Pressure (Flowing)

15 - 100 psi (104 - 689 kPa)

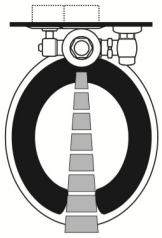
1. A continuous, invisible light beam is emitted from the OPTIMA® Sensor.

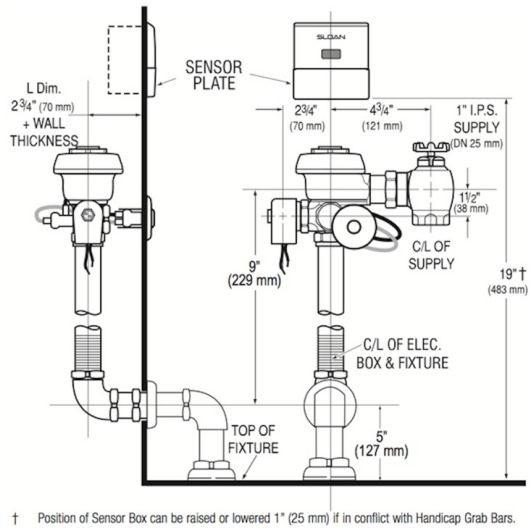
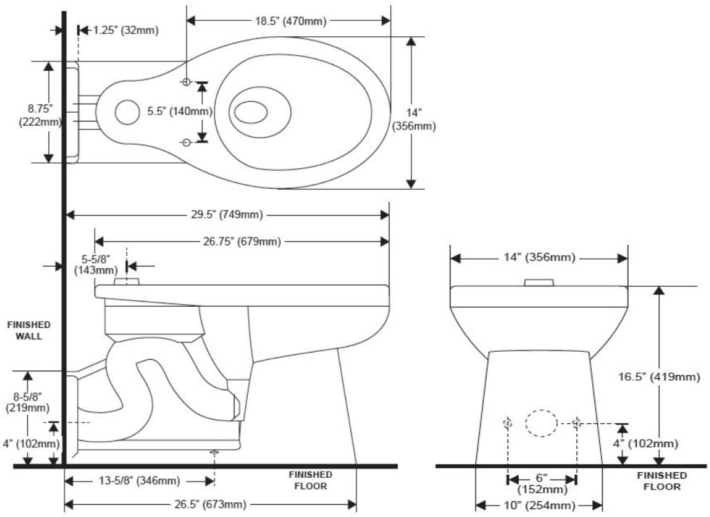


2. As the user enters the beam's effective range (22" to 42") the beam is reflected into the OPTIMA® Scanner Window and transformed into a low voltage electrical circuit. Once activated, the Output Circuit continues in a "hold" mode for as long as the user remains within the effective range of the Sensor.



3. When the user steps away from the OPTIMA® Sensor, the circuit waits 3 seconds (to prevent false flushing) then initiates an electrical "one-time" signal that operates the Solenoid. This initiates the flushing cycle to flush the fixture. The Circuit then automatically resets and is ready for the next user.





† Position of Sensor Box can be raised or lowered 1" (25 mm) if in conflict with Handicap Grab Bars.