



DESCRIPTION

Complete HET system with exposed, sensor activated, Royal® OPTIMA® closet Flushometer and vitreous china wall hung water fixture.

Flush Cycle

Model WETS 2050.1301-1.28-ES-S (1.28 gpf/4.8 Lpf)

Code: 20501301



Meets the American Disabilities Guidelines and ANSI A117.1 requirements when installed according to these requirements.

NOTE:

Plumbing System Requirements

- Minimum **Flowing** Pressure: 25 PSI
- Maximum Fixture Static Pressure: 80 PSI
- Minimum Flow Rate: 18 GPM

SPECIFICATIONS

Quiet, exposed, sensor activated diaphragm type, chrome plated closet Flushometer for either left or right hand supply and vitreous china wall hung water closet with the following features:

Flushometer and OPTIMA® ES-S Unit

- PERMEX® Synthetic Rubber Diaphragm with Dual Filtered Fixed Bypass
- OPTIMA® EL-1500-L Self-Adaptive Infrared Sensor with Indicator Light
- User friendly three (3) second Flush Delay
- Courtesy Flush® Override Button
- Non-Hold-Open Integral Solenoid Operator
- Two (2) Chrome Plated Wall Cover Plates (for 2-gang Electrical Box) with Vandal Resistant Screws
- High Back Pressure Vacuum Breaker Flush Connection with One-Piece Bottom Hex Coupling Nut, Spud Coupling and Flange for 1-1/2" Top Spud
- High Copper, Low Zinc Brass Castings for Dezinification Resistance
- Non-Hold-Open Integral Solenoid Operator, Fixed Metering Bypass and No External Volume Adjustment to Ensure Water Conservation
- Flush Accuracy Controlled by CID Technology
- Diaphragm, Stop Seat and Vacuum Breaker to be molded from PERMEX® Rubber Compound for Chloramine Resistance
- 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.

Fixture

- Wall hung vitreous china elongated bowl
- Siphon jet flushing action
- 1-1/2" I.P.S. top spud inlet
- 2 1/8" fully glazed trapway diameter
- Integral flushing rim
- Water spot area 9 1/2" x 8 1/4"
- Mounting hardware, carrier and toilet seat not included
- Recommended seats:
Bemis - 1955CT/1955SSCT & 2155CT/2155SSCT
Church - 295CT/295SSCT & 2155CT/2155SSCT
- Water closet shall be in compliance to the applicable sections of ASME A112.19.2/CSA B45.1
- Compliant with the Buy American Act when purchased as a combination

FEATURES

Automatic

Sloan 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.

Hygienic

User makes no physical contact with the Flushometer surface. Helps control the spread of infectious diseases. 24-hour Sentinel Flush keeps fixture fresh during periods of nonuse.

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 Royal® Flushometer, proven by more than 100 years of experience.

Warranty

3 year (limited)



This space for Architect/Engineer approval

Job Name	Date
Model Specified	Quantity
Variations Specified	
Customer/Wholesaler	
Contractor	
Architect	



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ELECTRICAL SPECIFICATIONS

• Control Circuit

Solid State
24 VAC Input
24 VAC Output
8 Second Arming Delay
24 Hour Sentinel Flush

• OPTIMA® Sensor Range

Nominal 15" – 30" (381 mm – 762 mm)
Self-adaptive Window \pm 8"(203 mm)

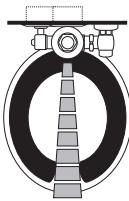
• Solenoid Operator

24 VAC, 50/60 Hz

• Transformer Accessories

EL-154 Transformer (120 VAC/24 VAC 50 VA)
EL-342 Transformer (240 VAC/24 VAC 50 VA)

OPERATION



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

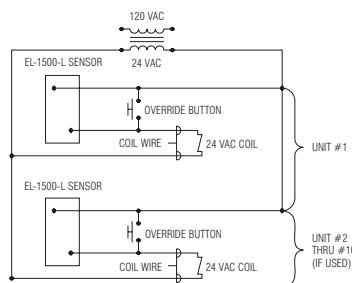


2. As the user enters the beam's effective range (15" to 30") the beam is reflected into the OPTIMA® Scanner Window and transformed into a low voltage electrical circuit. Once activated, the Output Circuit continues in a "hold" mode for as long as the user remains within the effective range of the sensor.



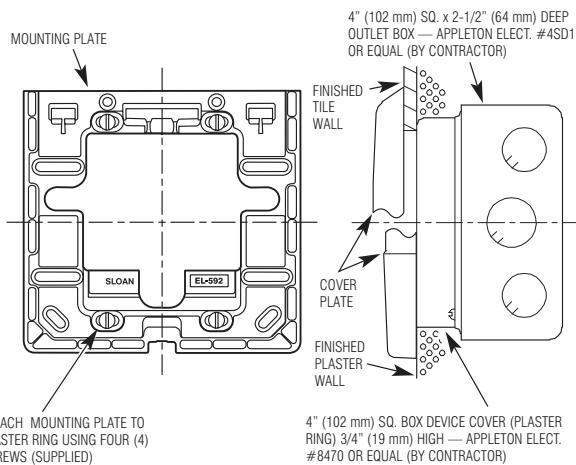
3. When the user steps away from the OPTIMA® Sensor, the circuit immediately initiates an electrical "one-time" signal that operates the Solenoid. This initiates the flushing cycle to flush the fixture. The Circuit then automatically resets and is ready for the next user.

WIRING DIAGRAM



One Transformer serves up to ten (10) OPTIMA Closet Urinal Flushometers. Specify number of transformers required accordingly.

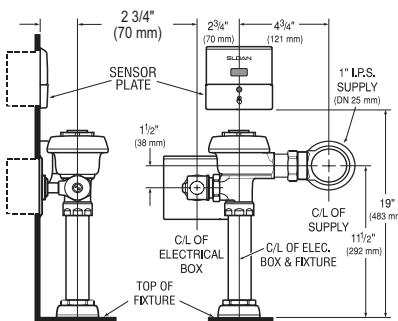
To ensure a perfect rough-in, Sloan recommends the use of the EL-485-A Flushometer electrical box positioning and support kit. Specify and order the EL-485-A kit separately. Consult factory for installation details.



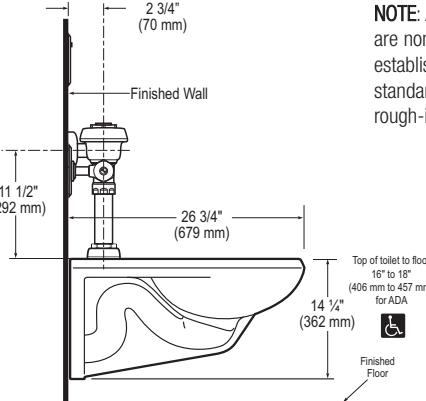
4" (102 mm) SQ. x 2-1/2" (64 mm) DEEP OUTLET BOX — APPLETON ELECT. #4SD1 OR EQUAL (BY CONTRACTOR)

4" (102 mm) SQ. BOX DEVICE COVER (PLASTER RING) 3/4" (19 mm) HIGH — APPLETON ELECT. #8470 OR EQUAL (BY CONTRACTOR)

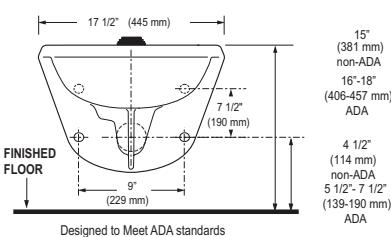
DIMENSIONS/ROUGH-IN



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



NOTE: All vitreous china dimensions shown in these drawings are nominal. Dimensions can vary within the tolerances established in the governing ASME A112.19.2/CSA B45.1 standard. Please take this into consideration when planning rough-in and plumbing layouts.



Designed to Meet ADA standards
when bowl is 17" - 19" high including seat

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