

Royal[®] OPTIMA[®]

Sensor Operated Flushometers



Description

Concealed, Sensor Operated Royal[®] Model Urinal Flushometer, enclosed behind a 13" x 17" Wall Box with Stainless Steel Access Panel, for ¾" top spud urinals.

Flush Cycle

□ Model 197 WB ES-S Water Saver (1.5 gpf/5.7 Lpf) □ Model 197-1.0 WB ES-S Low Consumption (1.0 gpf/3.8 Lpf) □ Model 197-0.5 WB ES-S (0.5 gpf/1.9 Lpf)

Specifications

- Quiet, Concealed, Diaphragm Type, Rough Brass Urinal Flushometer with the following features:
- PERMEX[™] Synthetic Rubber Diaphragm with Dual Filtered Fixed Bypass
- OPTIMA® EL-1500 Self-Adaptive Infrared Sensor with Indicator Light
- Non-Hold-Open Integral Solenoid Operator
- 13" x 17" EASY ACCESS[®] Wall Box with Stainless Steel Access Panel and Vandal Resistant Screws
- ¾" I.P.S. Wheel Handle Bak-Chek[™] Angle Stop
- Adjustable Tailpiece
- High Back Pressure Vacuum Breaker Flush Connection, Spud Coupling and Flanges for ³/₄" Exposed Top Spud
- Sweat Solder Adapter
- Chrome Plated Exposed Flushometer Parts
 High Copper, Low Zinc
 Brass Castings for Dezincification 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, ANSI/ASME A112.19.6 and Military Specification V-29193. Installation conforms to ADA requirements.

L Dimension

Specify the "L" Dimension for the proper length of the Flush Connection. The "L" Dimension is equal to the Wall Thickness (to nearest whole inch) plus 2%".

Accessories

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

See Accessories Section and OPTIMA Accessories Section of the Sloan catalog for details on these and other OPTIMA Flushometer variations.

U R Listed	(R) Certified	UPC [®] Listed by I.A.P.M.O.	F
	This space for Ar	chitect/Engineer approval	
Job Name		Date	
Model Specified		Quantity	
Variations Specified			
Customer/Wholesaler _			
Contractor			
Architect			





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 surrounding. Once the user enters the sensor's effective range and then steps away, the Flushometer Solenoid initiates the flushing cycle to flush the fixture. Wall Box allows for vandal-proof concealed installation where pipe chase is not available or pipe space is limited.

Hygienic

User makes no physical contact with the Flushometer surface. Helps control the spread of infectious diseases. Twenty-four 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 operated Royal® Flushometer, proven by 90 years of experience.

- Warranty
 3 year (limited)
- Made in the U.S.A.



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ELECTRICAL SPECIFICATIONS

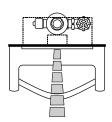
Control Circuit Solid State

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 ± 8" (203 mm)

OPERATION

 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.

Solenoid Operator

Wall Box Specifications

EASY ACCESS® Wall Box

x 432 mm x 102 mm) #16

Assembly — Part #EL-192-A

Frame: 13" x 17" x 4" (330 mm

Cover (Access Panel): 141/2" x

181/2" (368 mm x 470 mm) #15

Screws: (6) #8-32 x 3/4" Drilled

Spanner Head — Spanner Bit

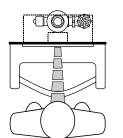
Gauge #304 Stainless Steel,

24 VAC. 50/60 Hz

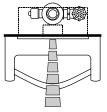
Gauge Steel

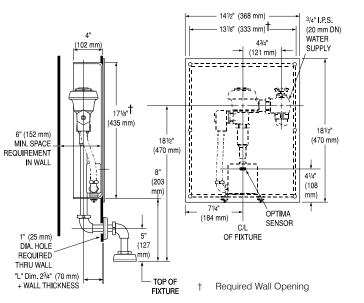
#4 Finish

Provided



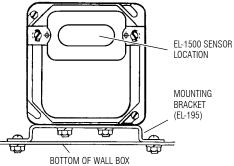
3. When the user steps away from the OPTIMA Sensor, the circuit immediately initiates an electrical "one-time" signal that operates the Solenoid. This initiates the flushing cycle to flush the fixture. The Circuit then automatically resets and is ready for the next user.





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.



Adjust the Mounting Bracket so that the Sensor sits flush against the Cover Plate. Refer to the instructions packaged with the Flushometer for additional installation information.

SLOAN VALVE COMPANY • 10500 SEYMOUR AVENUE • FRANKLIN PARK, IL 60131

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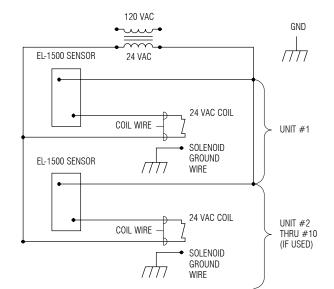
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Royal Optima 197 WB ES-S S.S. - Rev. 1 (01/02)

WIRING DIAGRAM



Transformer

Sloan Part #EL-154 120 VAC, 50/60 Hz Primary 24 VAC, 50/60 Hz Secondary Class II, UL Listed, 50 VA.

Sloan Part #EL-342 240 VAC, 50/60 Hz Primary 24 VAC, 50/60 Hz Secondary Class II, UL Listed, 50 VA. One Transformer serves up to ten (10) OPTIMA Closet/Urinal Flushometers. Specify number of transformers required accordingly.