

Sloan® Optima Plus® SMOOTH® Exposed Hardwire Side-Mount Sensor-Activated Flushometer Sloan 180 HWS

► Code Number

3772407

► SPECIFICATIONS

Description

- Exposed, AC Powered, Sensor Activated, Sloan® Optima® SMOOTH™ Urinal Flushometer for 1¼" top spud urinals.

Flush Cycle

- 1.0 gpf/3.8 Lpf
- 3.5 gpf/13.2 Lpf
- 1.5 gpf / 5.7 Lpf

Specifications

- Exposed parts Polished Brass
- Quiet, Exposed, Diaphragm Type, Chrome Plated Urinal Flushometer with the following features:
- 1" I.P.S. Screwdriver Bak-Chek® Angle Stop with Vandal Resistant Stop Cap
- Vacuum Breaker with Flush Connection
- Sweat Solder Adapter with Cover Tube and Cast Wall Flange
- Non-Hold-Open Handle and No External Volume Adjustment to Ensure Water Conservation
- Low Consumption flush accuracy
- Spud Coupling and Spud Flange for 1¼" Top Spud
- Handle Packing, Stop Seat and Vacuum Breaker Molded from PERMEX® Rubber Compound for Chloramine Resistance
- "User in View" Flashing LED
- FLUSHOMETER
- Optima SMOOTH Unit
- Sensor with Automatic Range Adjustment
- Mechanical Manual Override Flush Handle
- 25 to 80 psi Operating Range
- Vandal Resistant 1/8" Ball-Type Hex Key included
- ADA Compliant OPTIMA® SMOOTH™ AC Powered Infrared Sensor for automatic "Hands-free" operation
- ADA Compliant Metal Oscillating Non-Hold-Open Handle
- 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 and ANSI/ASME 112.19.2.
- High Chloramine Resistant PERMEX® Synthetic Rubber Diaphragm with Linear Filtered Bypass and Vortex Cleansing Action™
- Chrome Plated Infrared Sensor Housing

Variations

- DFB - Dual Filtered Bypass Diaphragm
- 1½" Flush Connection"

Accessories (Sold Separately)

- See Accessories Section of the Sloan catalog for available accessories

Accessories (specify separately)

- EL-386 Plug-In Adaptor (120 VAC/6 VAC, 3 VA) – will operate 1 unit



► FEATURES

Automatic Operation

- Sloan SMOOTH™ equipped Flushometers provide the ultimate in sanitary protection and automatic operation. Once the user enters the sensor's effective range and then steps away, the SMOOTH™ Unit initiates the flushing cycle to flush the fixture. State-of-the-art Technology enables override activation without "double flushing" as the user departs (sensor is locked-out for approximately 10 seconds). True manual override eliminates the need for expensive battery back-up systems."

Hygienic

- The Sloan® Optima® SMOOTH™ Flushometer is the next advancement in hygiene. It uses sensor technology to transform manual installations into electronic, hands-free operation. User makes no physical contact with the Flushometer surface except to initiate the Override Handle when required. Helps control the spread of infectious diseases.

Economical

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

► Compliance & Certifications



This space for Architect/Engineer Approval

- EL-451 Box Mount Transformer (120 VAC/6 VAC, 25 VA) – will operate up to 6 units

► ELECTRICAL SPECIFICATIONS

Control Circuit

- 6 VDC Input
- 72 Hour Sentinel Flush
- 8 Second Arming Delay

Operating Pressure

- 25-80 psi (172-552 kPa)

Sensor Range

- Reduced Range (recommended for Urinals) with 1 - 2 second flush delay: 20" - 26" (508 mm - 660 mm)
- Normal Range (recommended for Water Closets) with 1 - 2 second flush delay: 26" - 32" (660 mm - 813 mm)
- Normal Range (recommended for Water Closets) with 2-3 second flush delay: 26" - 32" (660mm - 813mm)

Sensor Type

- Active Infrared with Automatic Adjustment

Transformers

- Sloan Part #EL-451 (Box Mount) 120 VAC, 50/60 Hz Primary 6 VAC, 50/60 Hz Secondary Class II, 25 VA.
- Sloan Part #EL-386 (Plug-in) 120 VAC, 50/60 Hz Primary 6 VAC, 50/60 Hz Secondary Class II, 3 VA.

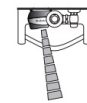
► OPERATION



1. A continuous, invisible light beam is emitted from the SMOOTH® unit's Infrared Sensor.

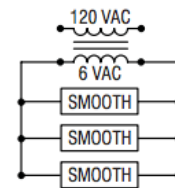


2. When the user enters the sensor's effective range, the Red LED light in the sensor window flashes for eight seconds. After eight seconds of sensing the user, the light will stop flashing and the unit waits for the user to step away before initiating a flush cycle

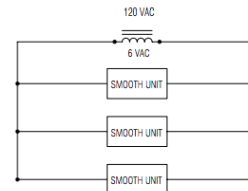


3. When the user steps away, the unit initiates a flush cycle. The unit then automatically resets and is ready for the next user.

► WIRING DIAGRAM



One EL-451 Transformer serves up to eight (8) OPTIMA® Closet/Urinal Flushometers.



One EL-386 Transformer serves one (1) OPTIMA Closet/Urinal Flushometer. One EL-451 Transformer serves up to six (6) OPTIMA Closet/Urinal Flushometers. Specify part number and number of transformers required accordingly.

► ROUGH-IN

