OPTIMA® Sensor Activated HET Flushometer and ADA Compliant HET Water Closet
WETS 2020.1302-1.28 HWS

▶ Code Number
20201302

▶ SPECIFICATIONS
Specifications
Quiet, exposed, sensor activated diaphragm type, chrome plated HET Flushometer for either left or right hand supply and ADA compliant HET vitreous china fixture with the following features:

Flush Cycle
1.28 gpf/4.8 Lpf

Flushometer Specification
- Quiet, diaphragm type, chrome plated closet Flushometer and vitreous china water closet with the following features:
- Non-Hold-Open Handle, Fixed Metering Bypass and no external volume adjustment to ensure water conservation
- Free spinning Vandal Resistant Stop Cap and Adjustable Tailpiece
- 1" I.P.S screwdriver Bak-Chek® angle stop
- Flush accuracy controlled by CID® technology
- Infrared Sensor with Multiple-focused,Lobular Sensing fields for high and low target detection

Valve Body, Cover, Tailpiece and Control Stop shall be in conformance with ASTM Alloy Classification for Semi-Red Brass. Valve shall be in compliance to the applicable sections of ASSE 1037/ ASME A112.19.2/CSA B45.1

- Sweat Solder Adapter w/Cover Tube and Cast Wall Flange with Set Screw
- Diaphragm, Stop Seat and Vacuum Breaker to be molded from PERMEX® rubber compound for Chloramine resistance

▶ SPECIFICATIONS (continued)
OPTIMA® Hardwire SMOOTH™ Unit
- ADA compliant OPTIMA® SMOOTH™ AC powered infrared sensor for automatic "Hands-free" operation
- Mechanical Manual Override Flush Handle
- "User in View" flashing LED
- 25 to 80 psi operating range
- Vandal Resistant 1/8" Ball-Type Hex Key included

Fixture Specifications
- Integral flushing rim
- Compatible with toilet seat models:
- Toilet seat not included
- Closet bolts and caps included
- Elongated bowl with siphon jet flush
- ADA compliant floor mounted vitreous china
- 1 ½" I.P.S. top spud inlet
- 2 1/8" fully glazed trapway diameter
- Bemis 1955CT & Bemis 2155CT
- 100% factory flush tested
- Water closet compliant to the applicable sections of ASME A112.19.2/CSA B45.1

▶ FEATURES
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.

Automatic
Sloan OPTIMA® SMOOTH™ 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 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

This space for Architect/Engineer Approval

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► ELECTRICAL SPECIFICATIONS

Control Circuit
- 6 VDC input, 8 second arming delay, 72 hour Sentinel Flush

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

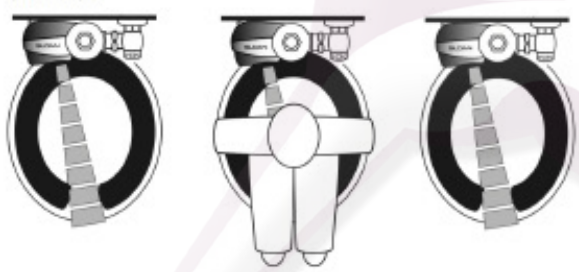
Transformer
- EL-386 (Plug-in) 120 VAC, 50/60 Hz Primary 6 VAC, 50/60 Hz Secondary Class II, 25 VA.
- EL-451 (Box Mount) 120 VAC, 50/60 Hz Primary 6 VAC, 50/60 Hz Secondary Class II, 25 VA.

Transformer Options
- EL-451 (120 VAC/6 VAC 50/60 Hz (25 VA) – Box Mount (will operate up to 8 units)
- EL-386 (120 VAC/6 VAC 50/60 Hz (3 VA) – Plug-in (will operate 1 unit)

Sensor Type
- Active Infrared with Automatic Adjustment

Valve Operating Pressure (Flowing
- 25-80 psi (172-552 kPa)

OPERATION



1. A continuous, invisible light beam is emitted from the OPTIMA Plus® Sensor.
2. As the user enters the beam's effective range the beam is reflected into the OPTIMA Plus® 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 Plus® 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 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.

► Plumbing System Requirements

Maximum Static Pressure: 80 PSI

Minimum Flow Rate: 25 GPM

Minimum Flowing Pressure: 25 PSI

► ROUGH-IN