

► **Code Number**
20201403

► **Description**
Complete HET system with exposed, sensor activated, Royal® OPTIMA Plus® closet flushometer and vitreous ADA compliant china water closet.

► **Flush Cycle**
• 1.28 gpf/4.8 Lpf

► **SPECIFICATIONS**

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
- Flush accuracy controlled by CID® technology
- High Back Pressure Vacuum Breaker Flush Connection with One-Piece Bottom Hex Coupling Nut, Spud Coupling and Flange for 1-1/2" Top Spud
- 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

OPTIMA Plus® SMOOTH® Unit

- Mechanical Manual Override Flush Handle
- Four (4) size C batteries included
- "User in View" flashing LED
- 25 to 80 psi operating range
- Vandal Resistant 1/8" Ball-Type Hex Key Included

Fixture Specifications

- ADA compliant floor mounted vitreous china
- Integral flushing rim
- Elongated bowl with siphon jet flush
- Closet bolts and caps included
- Toilet seat not included
- Compatible with toilet seat models:
- Compliant with Buy American Act when purchased as a combination
- 1 1/2" 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

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► **FEATURES**

Automatic

Sloan OPTIMA Plus® 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.

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, troublefree operation. The operational components of the Flushometer are identical to a handle activated Royal® Flushometer, proven by over 100 years of experience.

► **Disclaimer**

All information contained within this document subject to change without notice.

NOTE: All vitreous china dimensions shown in these drawings are nominal and not to scale. Dimensions can vary within the tolerances established in the governing ASME A112.19.2/CSA B45.1 standard. It is important to consider this when planning rough-in and plumbing layouts.

► **Compliance & Certifications**

ASSE-1037



- 100% factory flush tested
- Water closet compliant to the applicable sections of ASME A112.19.2/CSA B45.1
- ▶ **Plumbing System Requirements**
 - Maximum Static Pressure: 80 PSI
 - Minimum Flow Rate: 25 GPM
 - Minimum Flowing Pressure: 25 PSI

- Battery Type**
(4) C Alkaline
- Battery Life**
2 Years @ 4,000 Flushes/Month
- Indicator Lights**
User in View
- Valve Operating Pressure (Flowing)**
25-80 psi (172-552 kPa)

▶ 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" (660mm – 813mm)

Normal Range (recommended for Water Closets) with 1-2 second flush delay: 26" – 32" (660mm – 813mm)

▶ OPERATION



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



2. As the user enters the beam's effective range (15" to 30") 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.

▶ ROUGH-IN

