

Model

WETS 2052.1303-1.6/1.1 ECOS® Hardwire DF

Electronic Hardwire Dual Flush HET Flushometer and HET Dual Flush Wall Hung Water Closet

DESCRIPTION

Complete HET system with exposed, sensor activated, Sloan ECOS® electronic Dual Flush hardwire Flushometer and vitreous china Dual Flush wall hung fixture.

Flush Cycle

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(Full Flush 1.6 gpf/6.0 Lpf)

Reduced Flush 1.1 gpf/4.2 Lpf)

Code: 20521303



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
- Minimum Flow Rate: 18 GPM
- Maximum Static Pressure: 80 PSI

SPECIFICATIONS

Quiet, exposed, diaphragm type, chrome plated closet Flushometer for either left or right hand supply with the following features:

Dual Flush Flushometer

- PERMEX® Synthetic Rubber Diaphragm with Dual Filtered Fixed Bypass
- If the user is present for less than one minute and leaves the sensing zone or chooses the small override button, a reduced flush initiates (1.1 gpf/4.2 Lpf) eliminating liquid and paper waste saving 1/2 gallon of water
- If the user is present for greater than one minute and leaves the zone or chooses the large override button, the full flush initiates (1.6 gpf/6.0 Lpf) eliminating solid waste and paper waste
- ADA Compliant Sloan ECOS® Infrared Sensor for automatic "No Hands" operation
- Infrared Sensor with Multiple-focused, Lobular Sensing Fields for high and low target detection
- Courtesy Flush® Override Buttons
- Line powered (120 VAC/4.5 VAC)
- Initial Set-up Range Indicator Light (first 10 minutes)
- Spud Coupling and Flange for 1-1/2" Top Spud
- High copper, low zinc brass castings for dezincification resistance
- Fixed Metering Bypass and no external volume adjustment to ensure water conservation
- Diaphragm, Stop Seat and Vacuum Breaker to be molded from PERMEX® rubber compound for chloramine resistance
- Valve Body, Tailpiece and Control Stop shall be in conformance with ASTM Alloy Classification for Semi-Red Brass. Valve complies with the applicable sections of ASSE 1037.

Dual Flush Fixture

- Wall hung vitreous china dual flush 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
- Compatible with toilet seat models: Bemis 1955CT & Bemis 2155CT
- Water closet shall be in compliance to the applicable sections of ASME A112.19.2/CSA B45.1
- Compliant with Buy American Act when purchased as a combination

FEATURES

Manual Operation

This space for Architect/Engineer approval	
Job Name	Date
Model Specified	Quantity
Variations Specified	
Customer/Wholesaler	
Contractor	
Architect	

Sloan ECOS® Hardwire Dual Flush Flushometers incorporate intuitive Split-button design for easy manual activation. The small button controls the reduced flush cycle (1.1 gpf/4.2 Lpf), the large button controls the full flush cycle (1.6 gpf/6.0 Lpf). Straightforward graphics alert user to proper activation. Reduced flush for liquid waste, full flush for solid waste. To further educate the user, two (2) instructional wall plates are included with each Sloan ECOS® Flushometer.

Automatic Operation

Sloan ECOS® Hardwire Dual Flush Flushometers can also be activated via multi-lobular infrared sensor. By detecting user presence and duration, the Sloan ECOS® Smart Sense Technology™ will determine the proper flush volume for unequalled water efficiency.

Functional & Hygienic

Touchless, sensor operation eliminates the need for user contact to help control the spread of infectious diseases. The Sloan ECOS® Hardwire Dual Flush Flushometers are provided with *Reduced or Full Flush Override Buttons* to allow a "courtesy flush" for individual user comfort.

Smart Sense Technology™

The Sloan ECOS® Hardwire Dual Flush Flushometers are equipped with Smart Sense Technology™ which applies logic techniques to significantly reduce water usage without user input. If the user is present for less than one minute a reduced flush is initiated.

Warranty

3 year (limited)

U.S. Patent No. D598, 976



SLOAN

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ELECTRICAL SPECIFICATIONS

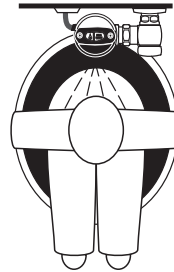
- **Control Circuit**
Solid State
6 VAC Input required
8 Second Arming Delay
3 Second Flush Delay
- **Sloan ECOS® Dual Flush Sensor Type**
Active Infrared
- **Sloan ECOS® Dual Flush Sensor Range**
Nominal 22" - 42" (559 mm - 1067 mm),
Adjustable ± 8" (203 mm)
- **Indicator Lights**
Range Adjustment
- **Valve Operating Pressure (Flowing)**
15 - 100 psi (104 - 689 kPa)
- **Sentinel Flush**
Once Every 72 Hours After the Last Flush
- **Transformers**
Sloan Part No. EL-38
(powers one ECOS® unit)
120 VAC, 60 Hz Primary
6 VAC, 60 Hz Secondary
Class II, 1/2 Amp-Plug-in Style

Sloan Part No. EL-451
(powers up to six ECOS® units)
120 VAC, 60 HZ Primary
6 VAC, 60 Hz Secondary
Class II, 25 VAC-Box Style

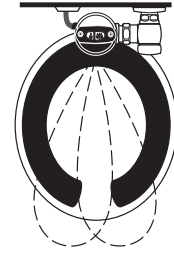
OPERATION



1. A continuous, invisible light beam is emitted from the Sloan ECOS® Dual Flush Sensor.

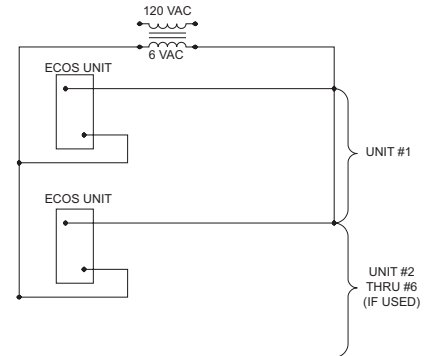


2. As the user enters the beam's effective range, 22 to 42 inches (559 mm to 1067 mm), the beam is reflected into the Scanner Window to activate the Output Circuit. Once activated, the Output Circuit continues in a "hold" mode for as long as the user remains within the effective range of the sensor. If the user stays longer than 65 seconds, a full flush will automatically initiate when the user leaves.



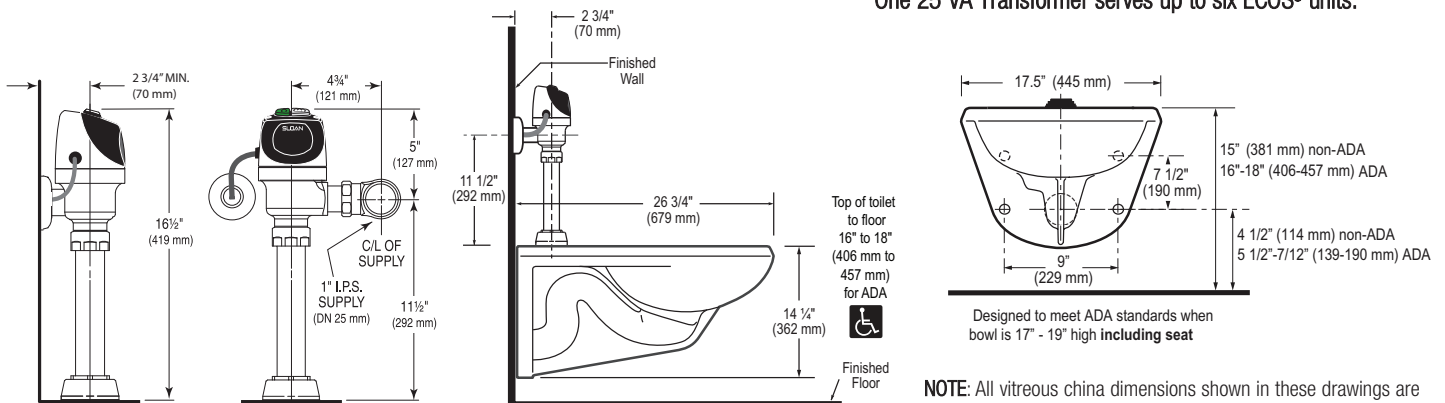
3. Once a user is detected, if the user leaves in 65 seconds or less, a reduced flush will automatically initiate. The circuit automatically resets and is ready for the next user.

WIRING DIAGRAM



One 25 VA Transformer serves up to six ECOS® units.

DIMENSIONS/ROUGH-IN



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.

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