Attachment F

Note: Saturated hydraulic conductivities (Ksat) presented are NRCS "representative" values in the absence of complete coverage of "low" value.
Description
Exposed, Battery Powered, Sensor Activated Sloan ECOS™ Electronic Dual Flush Model Water Closet Flushometer for floor mounted or wall hung top spud bowls.

Flush Cycle
- Full Flush (Large Button) / 1.6 gpf/6.0 Lpf
- Reduced Flush (Small Button) / 1.1 gpf/4.2 Lpf

Specifications
Quiet, Exposed, Diaphragm Type, Chrome Plated Closet Flushometer for either left or right hand supply with the following features:

- 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
- Reduces water volume by up to 30% when a reduced flush occurs
- PERMEX™ Synthetic Rubber Diaphragm with twin linear filtered bypass and vortex cleansing action
- Flex Tube Diaphragm designed for improved life and reduced maintenance
- ADA Compliant Sloan ECOS™ Electronic Dual Flush Battery Powered
- Infrared Sensor for automatic “No Hands” operation
- Infrared Sensor with Multiple-focused, Lobular Sensing Fields for high and low target detection
- Latching Solenoid Operator
- Engineered Metal Cover with replaceable Lens Window
- User friendly three (3) second Flush Delay
- Courtesy Flush™ Override Button
- Four (4) Size AA Batteries factory installed
- “Low Battery” Flashing LED
- Infrared Sensor Range Adjustment Screw
- Initial Set-up Range Indicator Light (first 10 minutes)
- Chrome Plated Metal Handle Cap
- 1” I.P.S. Screwdriver Bak-Chek® Angle Stop
- Free Spinning, Vandal Resistant Stop Cap
- Adjustable Tailpiece
- High Back Pressure Vacuum Breaker Flush Connection with One-piece Bottom Hex Coupling Nut
- Spud Coupling and Flange for 1-1/2” Top Spud
- Sweat Solder Adapter w/Cover Tube and Cast Wall Flange w/Set Screw
- High Copper Low Zinc Brass Castings for Dezincification Resistance
- Fixed Metering Bypass and No External Volume Adjustment to Ensure Water Conservation
- Flush Accuracy Controlled by CID™ Technology
- Diaphragm, Stop Seat and Vacuum Breaker molded from PERMEX™ Rubber Compound for Chloramine resistance
- 100% of the energy used in manufacturing is offset with Renewable Energy Sources – Wind Energy

Valve Body, 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 A112.19.2 and Military Specification V-29193. Installation conforms to ADA requirements.

Special Finishes
- PB Polished Brass (PVD Finish)
- GP Gold Plate (PVD Finish)
- BN Brushed Nickel (PVD Finish)
- SF Satin Chrome

See Accessories Section and Sloan ECOS™ Electronic Dual Flush Accessories Section of the Sloan catalog for details on these and other Sloan ECOS™ Electronic Dual Flush Flushometer variations.

ADA Compliant

Manual Operation
Sloan ECOS™ Electronic 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™ Electronic 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™ Electronic Dual Flush Flushometers are provided with Reduced or Full Flush Override Buttons to allow a “courtesy flush” for individual user comfort.

Warranty
3 year (limited)
**Description**
Exosed, Solar Powered, Sensor Activated Sloan SOLIS® Model Urinal Flushometer, with Smart Sense Technology™.

**Flush Cycle**
- Model 8186-0.13 High Efficiency (0.13 gpf/0.5 Lpf)
- Model 8186-0.25 High Efficiency (0.25 gpf/0.9 Lpf)
- Model 8186-0.5 High Efficiency (0.5 gpf/1.9 Lpf)

**Specifications**
- Quiet, Exosed, Diaphragm Type, Chrome Plated Urinal Flushometer for either left or right hand supply with the following features:
  - For flush volume 0.13 gpf and 0.25 gpf:
    - Pressure compensating cartridge assembly
    - Synthetic rubber seals for chloramine resistance
  - For flush volume 0.5 gpf:
    - PERIMEX™ Synthetic Rubber Diaphragm with twin linear filtered bypass and vortex cleansing action
    - Flex Tube Diaphragm designed for improved life and reduced maintenance.
  - Flush Accuracy Controlled by CID™ Technology
  - For all flush volumes:
    - Reduces water usage up to 80% over Standard Urinals
    - Solar Powered - The sensor assembly is powered by a solar cell that will harvest power from artificial indoor light, either incandescent or fluorescent light, and use it as the energy source. The solar cell can provide approximately 100% power with 850 Illuminance (lux).
    - Four (4) Size AA Battery Back-up Power Source
    - “Low Battery” Flashing LED
    - ADA Compliant Sloan SOLIS® Solar Powered Infrared Sensor for automatic “No Hands” operation
    - Infrared Sensor with Multiple-focused, Lobular Sensing Fields for high and low target detection
    - Latching Solenoid Operator
    - Engineered Metal Cover with replaceable Lens Window
    - User friendly three (3) second Flush Delay
    - Courtesy Flush™ Override Button
    - Infrared Sensor Range Adjustment Screw
    - Initial Set-up Range Indicator Light (first 10 minutes)
    - 3/4” I.P.S. Screwdriver Bak-Chek® Angle Stop
    - Free Spinning, Vandal Resistant Stop Cap
    - Adjustable Tailpiece
    - High Back Pressure Vacuum Breaker Flush Connection with One-piece Bottom Hex Coupling Nut
    - Spud Coupling and Flange for 3/4” Top Spud
    - Sweat Solder Adapter w/Cover Tube and Cast Wall Flange w/Set Screw
    - 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 molded from PERIMEX™ Rubber Compound for Chloramine resistance

Valve Body, 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. Installation conforms to ADA requirements.

**Special Finishes**
- PB Polished Brass (PVD Finish)
- BN Brushed Nickel (PVD Finish)
- SF Satin Finish

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

**Fixtures**
Consult Sloan for matching Sloan brand fixture options.

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**ADA Compliant**

**Automatic Operation**
Sloan SOLIS® Solar powered Flushometers are activated via multi-lobular infrared sensor. Sloan’s SOLIS® Solar powered Flushometer is a breakthrough in design and function that transforms light into power. The SOLIS® Series of Flushometers provide the ultimate in conservation and performance.

**Manual Operation**
Sloan SOLIS® Solar powered Flushometers incorporate an intuitive button design for easy manual activation. Straightforward graphics alert user to proper activation. To further educate the user, two (2) instructional wall plates are included with each Sloan SOLIS® Flushometer.

**Smart Sense Technology**
The Sloan SOLIS® Solar powered Flushometer is equipped with Smart Sense Technology™ which applies extended range and logic techniques to significantly reduce water usage in high use urinal applications; such as when a continuous line of people, also known as a queue, forms. In fact during continuous queue, regardless the number of users, the maximum amount of water used is only 2.0 gallons. Please contact Sloan for specific details.

**Functional & Hygienic**
Touchless, sensor operation eliminates the need for user contact to help control the spread of infectious diseases. The Sloan SOLIS® Solar powered Flushometers are provided with an Override Button to allow a “courtesy flush” for individual user comfort.

**Warranty**
3 year (limited)

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This space for Architect/Engineer approval

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Sloan SOLIS® 8186 HEU Flushometer  S.S. — Rev. 0b (09/10)

The information contained in this document is subject to change without notice.