**EBF-650**

**Description**
Battery Powered, Sensor Activated, Chrome Plated Brass, 4" Centerset Electronic Hand Washing Faucet for tempered or hot/cold water operation.

**Flow Rate**
- 0.5 gpm/1.9 Lpm Vandal Resistant Spray Head
  (See Accessories for other Spray Head options)

**Specifications**
ADA Compliant, Battery Powered, Sensor Activated, Chrome Plated Cast Brass, 4" Centerset Hand Washing Faucet with the following features:
- Splash-proof Circuit Control Module
- Sensor Range Adjustment Screw
- Low Battery LED Indicator Light
- User friendly Variable Time Out Settings
- Serviceable Filtered Solenoid Valve
- Bak-Chek® Tee for Hot/Cold Supply
- Vandal Resistant Spray Head with Pressure Compensating Flow Control
- Metal Jacketed Wire Protection for Sensor lead
- Includes four (4) AA-size Alkaline Batteries
- Appropriate Mounting Hardware included
- Optional 6 VDC Plug-in Adapter available (Batteries act as backup when using optional transformer)

**Variations**
(Add suffix to Model Number for inclusion with Faucet)
- **Trim Plate (Optional)**
  - **-8** Trim Plate for 8" Centerset Sink
- **Temperature Mixing Valves (Optional)**
  - **BDM** Below Deck Mechanical Mixing Valve
  - **BDT** Below Deck Thermostatic Mixing Valve
  Bak-Chek® Tee not required or provided when a Temperature Mixing Valve is included with the faucet.
- **Finishes (Optional)**
  - **PVDPB** Polished Brass (PVD Finish)
  - **PVDBN** Brushed Nickel (PVD Finish)
  - **PVDSF** Satin (PVD Finish)

**Accessories (Specify separately)**
- **Vandal Resistant Spray Heads**
  - **ETF-1029-A** 2.2 gpm/8.3 Lpm Laminar Flow Spray Head
    (recommended for medical applications)
  - **ETF-1024-A** 2.2 gpm/8.3 Lpm Aerator
- **Grid Strainer**
  - **ETF-460-A** Chrome Plated Brass Grid Strainer w/1¼" Outlet Tube
- **Adapter**
  - **SFP-6** 110 VAC/6 VDC Plug-in Adapter

See OPTIMA Accessories Section of the Sloan Catalog for a complete listing of OPTIMA Faucet Accessories and Variations.

**Automatic**
The Sloan OPTIMA Plus® EBF-650 Battery Powered Hand Washing Faucet activates by means of an infrared sensor. Once the user’s hands enter the sensor’s effective range, the solenoid activates the water flow. Tempered water flows from the faucet until hands are moved away. The faucet then automatically shuts off.

**Hygienic**
The ultimate in sanitary protection — there are no handles to turn or buttons to push. Helps to control the spread of infectious diseases. Ideal for high traffic commercial installations.

**Economical**
Automatic operation provides water usage savings over other faucet devices. Reduces maintenance and operation costs. The 4-inch centerset design makes the EBF-650 Faucet secure against abuse and vandalism. Battery powered ideal for retrofit installations. Optional plug-in adapter available.

**Warranty**
3 year (limited)

**Compliant to:**
ASME A112.18.1-2005/CSA B125.1-05
ISO/IEC 17025

This information contained in this document is subject to change without notice.
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(See Accessories for other Spray Head options)

ELECTRICAL SPECIFICATIONS

Control Circuit
6 VDC — operates on four (4) alkaline AA-size batteries. Optional 6 VDC Plug-in Adapter.

Battery Life
2 years at 8,000 cycles/month

Indicator Lights
Range Adjustment/Low Battery

Solenoid Valve
Filtered Solenoid Valve with serviceable Strainer Filter

Optima® Sensor Range
Factory Set: 4" - 5"
(102 mm - 127 mm)
Adjustable: 2" - 7" (51 mm - 178 mm)

Time Out Adjustment Settings
30 seconds — The Faucet Time Out Setting determines the maximum time the faucet will run upon continuous detection. The EBF-650 is factory set at the 30 second time out. Consult factory for time out settings to meet individual application requirements.

OPERATION

1. A continuous invisible beam of light is emitted from the OPTIMA® Sensor located at the base of the lavatory faucet.

2. As the user’s hands enter the beam’s effective range, the beam is reflected back into the Sensor Receiver and activates the Solenoid Valve allowing tempered water to flow from the faucet. Water will flow until the hands are removed or until the faucet reaches its automatic time out limit setting.

3. When hands are moved away from the OPTIMA® Sensor, the loss of reflected light initiates an electrical signal that deactivates the Solenoid Valve, shutting off the water flow. The Circuit then automatically resets and is ready for the next user.

EBF-650 Faucet with Bak-Chek® Tee for Hot and Cold Water Supply
EBF-650 Faucet with BDM and BDT Variation Mixing Valves for Hot and Cold Water Supply