

SANI-LAV® COLUMBIA PRODUCTS

Installation Instructions for AC and Battery Powered Sensor Faucets

Models ES2RL, ES2RL-0.5, ESB2RL and ESB2RL-0.5



Note: Model ES2RL and Hydrotek Model H-6700C-LR are the same.
Model ESB2RL and Hydrotek Model HB-6700C-LR are the same.



Columbia does not recommend use with harsh chemicals.

Product Compliance

NSF/ANSI 2 Food Equipment, NSF/ANSI 61, Section 9, ASME A112.18.1, ADA Compliant



ADA Compliant

SANI-LAV Sensor Faucets

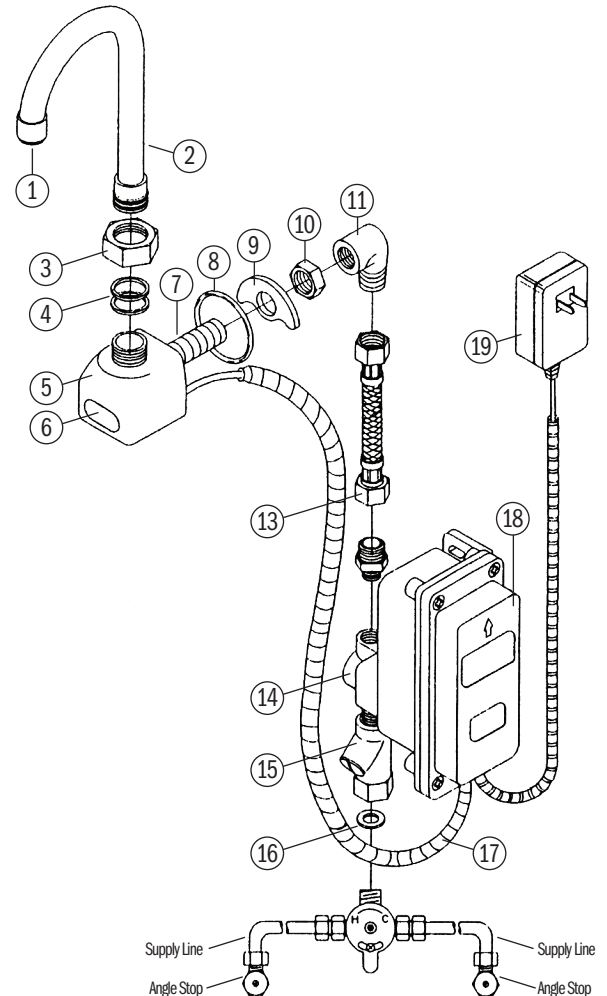
AC and Battery Powered Sensor Operated Mixing Faucet
Models ES2RL, ES2RL-0.5, ESB2RL and ESB2RL-0.5

AC OR BATTERY POWERED



Installation Instructions

- Prior to installation, thoroughly flush all water lines and replace stop washers, if required.
- To ensure proper operation, "DRY TEST" the faucet by plugging the **Sensor Eye Cable (17)** into the matching connector on the PC board inside of the **Control Box (18)**.
 - AC Powered:** Connect the **Power Adapter (19)** to the PC board inside of the **Control Box (18)**, then plug the Power Adapter into a 120 V AC wall outlet. Place your hand in front of the sensor eye and listen for a clicking sound. If there is no clicking sound, call the factory.
 - Battery Powered:** Properly install new batteries into the battery holder and ensure the battery holder is connected to the PC board. Place your hand in front of the sensor eye and listen for a clicking sound. If there is no clicking sound, call the factory.
- After a successful "DRY TEST", unplug the **Sensor Eye Cable (17)** and **Power Adapter (19)** or battery holder from the PC board.
- Loosen **Flow Control Device (1)** and assemble the **Gooseneck Spout (2)** using the **Split Washers (4)** and **Spout Nut (3)**. Mount the **Gooseneck Spout (2)** onto the **Body (5)**. Feed the **Sensor Eye Cable (17)** through the sink wall and tighten the faucet onto the sink using the **O-Ring (8)**, **Washer (9)**, and **Mounting Nut (10)**. Attach the **90-Degree Elbow (11)** to the **Supply Rod (7)**.
USE TEFLON TAPE ONLY, NO PIPE DOPE
- Reconnect the **Sensor Eye Cable (17)** and **Power Adapter (19)** connections described in STEP #2, making sure the cables are seating in the **Control Box (18)** housing properly.
- Attach the **Compression Fitting (13)** to the **Solenoid Valve (14)** and connect it to the **Elbow (11)** using the **Supply Tube (12)**. Insert the **Nylon Washer (16)** into the swivel nut located on the **In-Line Filter (15)**.
 - Pre-tempered or cold water only:** Use a union fitting (not supplied) to connect the supply line (not supplied) from the supply stop to the In-Line Filter (15).
 - Tempered water:** Attach an optional Hydrotek HC-001 or HC-003 mixing valve to the In-Line Filter (15). Connect the supply lines (not supplied) to the mixing valve.
- Turn on water and check for leaks. Plug the **Power Adapter (19)** into a 120V AC outlet (for AC Powered). Push the reset button on the PC Board. Reinstall the cover for the **Control Box (18)** and tighten screws to ensure water resistance. Place hands in front of the sensor eye to activate water flow. Remove hands and the water should stop. If not, refer to the troubleshooting guide or call the factory.
- Periodically clean the filter element located inside the **In-Line Filter (15)**.
- For minor adjustments, refer to the instructions located inside the cover of the **Control Box (18)**.
- IMPORTANT:** The stop valve should never be opened to the point where the water flow exceeds the flow capability of the fixture. The fixture must be able to accommodate the continuous water flow from the faucet in the event of a failure. Should the fixture overflow due to water exceeding the capability of the fixture and/or the drain pipe, Hydrotek will not be responsible for any damages.



Parts

1. Flow Control Device	11. 90 Degree Elbow
2. Gooseneck Spout	12. Supply Tube
3. Spout Nut	13. Compression Fitting
4. Split Washers	14. Solenoid Valve
5. Body	15. In-Line Filter
6. LED Sensor Cover	16. Nylon Washer
7. Supply Rod	17. Sensor Eye Cable
8. O-Ring	18. Control Box
9. Washer	19. Power Adapter (not included with model ESB2RL)
10. Mounting Nut	

Notice for California Consumers

WARNING: This product can expose you to chemicals including Chromium (hexavalent compounds), Lead, and Phthalates (DEHP) which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

NOTE: Lead content originates from Brass components in valves and faucets and is certified under NSF/ANSI 372 as containing less than 0.25% lead in wetted surfaces.

COLUMBIA PRODUCTS

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SANI-LAV Sensor Faucets

AC and Battery Powered Sensor Operated Mixing Faucet

Models ES2RL, ES2RL-0.5, ESB2RL and ESB2RL-0.5



ADA Compliant

Operation

1. A continuous, invisible beam is emitted from the sensor.
2. The faucet is activated by placing hands under the spout within the effective range of the beam. Water starts to flow immediately for as long as the user's hands remain in the sensor range.
3. When hands are removed, the water flow stops. The sensor will automatically reset and be ready for the next user.
4. In the battery powered version, a flashing red light will indicate a low battery condition.

Specifications

Faucet Construction

Solid brass, chrome plated

Control Circuit

Solid state, AC or battery, switchable

- Auto. Time-out
Preset at 20 seconds and adjustable to 10, 30, or 60 seconds
- Line Purge (request only)
2 minute run every 12 hours or 24 hours
- Scrub Mode Delay (request only)
60, 120, 180 seconds
- Sensor Range
Preset and adjustable
- Shut-off Delay
Presets and adjustable from 1-8 seconds

Control Cable

Armored, vandal resistant

Solenoid Valve

6V DC, normally closed

- Wattage: 0.4W (idle), 5W (in use)
- Operating Pressure: 5 psi to 125 psi

Flow Control

2.0 or 0.5 GPM, Laminar Flow Control

AC Mode

Power Adapter

- Standard Plug-in
Input AC 120V 60 Hz or 220V
- (UL/CSA)
Output DC 12V, 0.8A/Class 2
- Power Cable
Armored, vandal resistant
- Optional Multi-Unit Adapter
Serves up to 8 faucets
- (UL/CSA)
Input AC 120V, Output DC 12V, 3A

Battery Mode

Battery Powered Models

(4) AA Alkaline Batteries

Battery Service Life

400,000 on/off cycles, up to 4 years

Package Includes

- (1) Faucet with electronic sensor
- (1) Control box w/6V DC solenoid
- (1) 12V DC plug-in power adaptor (HB-6700C, -DC, -LR and -LRDC only)
- (1) In-line filter with clean-out trap
- (1) 18" Flex, S.S. supply tube, 3/8"(1) 6" Gooseneck Spout
- (1) Mounting hardware
- (1) 2.0 GPM Flow Control(4) AA Alkaline batteries (HB-6700C, -DC, -LR, -LRDC only)
- (1) Battery holder (HB-6700C, -DC, -LR, -LRDC only)

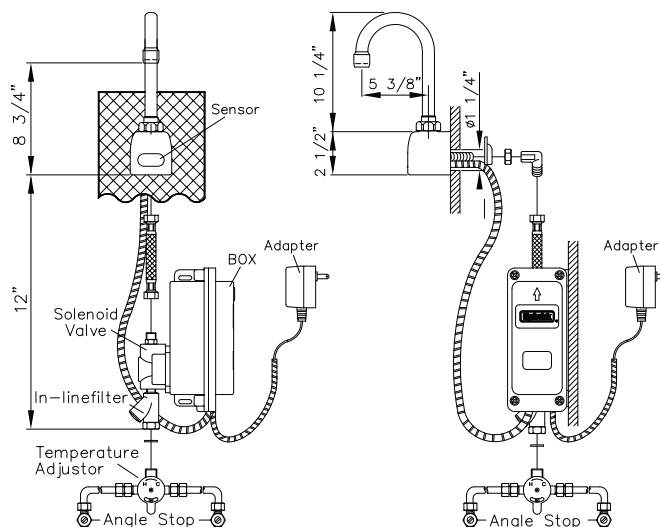
Dimensions

- Base Width (Outside Measurement) 2-1/4"
- Base Depth 2-1/2"
- Faucet Height (Aerator to Base) 8-3/4"
- Faucet Height Overall 12-3/4"
- Depth (Center of Aerator to Center of Faucet Base) 5-3/8"
- Mounting Bolt Length 1-7/16"
- Mounting Bolt Pattern Single-hole mount

Optional Variations and Accessories

- 0.35, 0.5, 1.5, 2.2 GPM Laminar Flow
- HC-010 Multi-Unit Voltage Adapter (AC Powered Only) - 8 units
- HC-0104 Multi-Unit Voltage Adapter (AC Powered Only) - 4 units
- HC-001 Mixing/Check Valve (Mechanical)
- HBL-04-LR Thermostatic Mixing Valve with Checks (Low Lead)
- 8" deep Gooseneck and 6" or 8" Swing Swing Spout Model

Model	Sensor Type	Flow-Rate
ES2RL	AC Powered	Standard 2.0 GPM
ES2RL-0.5	AC Powered	Low-Flow 0.5 GPM



Model	Sensor Type	Flow-Rate
ESB2RL	Battery Powered	Standard 2.0 GPM
ESB2RL-0.5	Battery Powered	Low-Flow 0.5 GPM

