

# Futura Faucet with Adaptive Infrared Metering Control

## Model 900



- Reliable Infrared Metering Activation
- Broad Sensing Zone Within Bowl
- Vandal Resistant
- Automatic Sensor Adaptation to Lav Bowl
- Centershank or 4" Centerset Mounting, 8" Centerset Optional
- Diagnostic LED Indicator

## Specifications

### User Operation

The faucet activates water flow only when the user's hands enter a broad infrared detection zone within the lavatory bowl perimeter. The faucet turns itself off after the hands are removed from the lavatory bowl area, allowing users to dry hands or groom without wasting water.

### Component Operation

The Futura Model 900 controls water flow by using an adaptive-style sensor module to electronically open and close a 24V solenoid valve. Both electronic components are powered by a 24V class II transformer (provided by Bradley as an option).

The Bradley adaptive sensor module uses a zone-focused infrared transmitting beam to create a large detection area confined strictly to the lavatory bowl. When the hands enter the detection area, the sensor starts water flow by electronically opening the solenoid valve. When hands leave the detection area, the sensor stops water flow by closing the solenoid valve.

### Adaptive Sensing Technology

When installed and powered up, the Bradley adaptive sensor suppresses a learned background environment (lavatory bowl) and responds (activates) when a change to that environment (user's hand) is detected. This technology allows the faucet to learn and adapt to a variety of lavatory bowls and installation environments.

The incoming water supply can be tempered or cold. An optional Bradley Vernatherm Thermostatic Mixing Valve delivers tempered water at a temperature no greater than 105°F.

## Standard Equipment

### Infrared Sensor

The sensor module uses a zone-focused infrared transmitting beam, creating a detection area not exceeding the bowl perimeter. Adaptive-style sensor shall learn installation environment upon power-up and react (activate) when the user's hands enter the detection area. A timing turn-off delay of 2-3 seconds results in a smooth, controlled hand-washing operation. The Bradley adaptive sensor is not affected by varying color tones or darkness. Direct sunlight or bright washroom lights (up to 10,000 foot candles) will not activate the system.



### Solenoid

24V, 50/60Hz, 3/8" NPT. The electronically activated solenoid valve provides reliable performance since there are few moving parts and its operation is unaffected by most chemicals and minerals often present in municipal water supplies.

### Flow Control/Rate

Operating range 20-100 PSI. Flow restrictor keeps flow rate constant at all pressures. The flow rate is .5 GPM, laminar flow outlet.

### Body

Chrome plated, solid cast brass body, centershank or 4" centerset mounting (standard), 8" centerset mounting (optional) with mounting plate.

### Diagnostic LED

Short circuit or overload will cause visible LED on sensor module to flash repeatedly. Under normal operating conditions, sensor module LED is on steady, indicating power on.

### Sanitary

No-touch operation reduces water/soap splatter and addresses the public's increasing awareness and concern about communicable diseases.

### Vandal Resistant

There are no surface-mounted controls to tempt vandals. The sensor module is hermetically sealed and can be located under the countertop. The sensor's infrared send-and-receive optics are protected by a shatter-resistant polycarbonate shield. The adaptive sensor will automatically shut off water flow after 30-45 seconds if a vandal attempts to trigger constant operation by covering the sensor or placing a stationary object in the sensor's detection zone.

### Barrier-Free (ANSI A117-1-1990)



The sensor module produces a broad detection zone which allows disabled users to easily activate the faucet from either a front or side approach.



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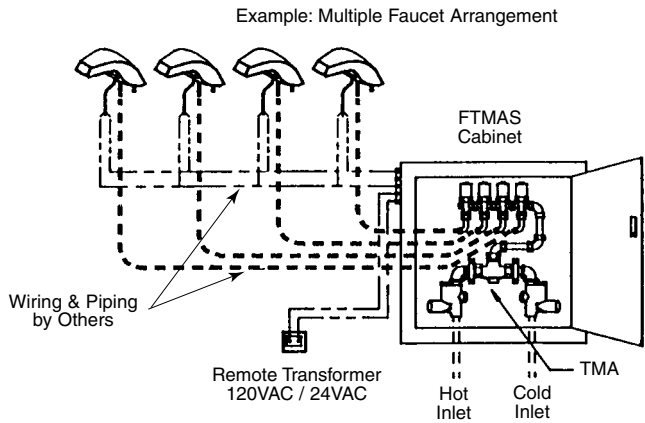
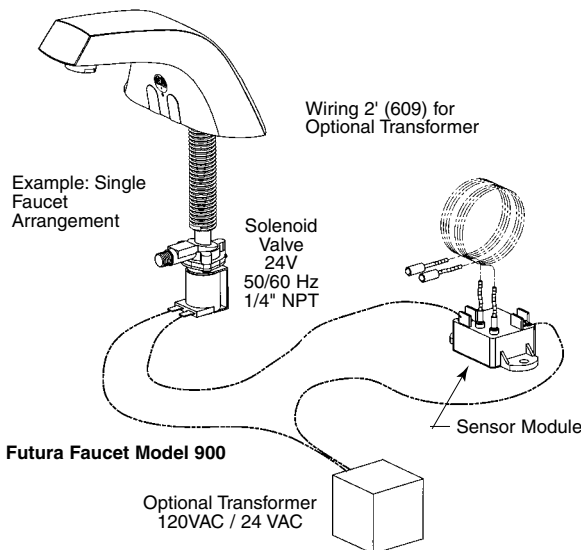
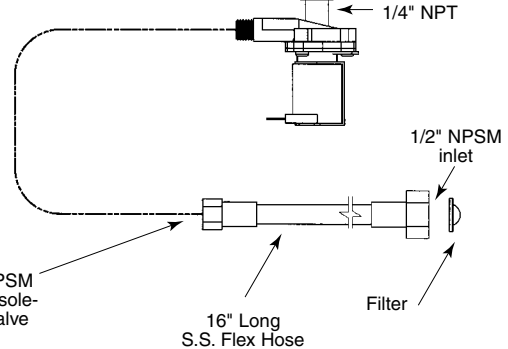
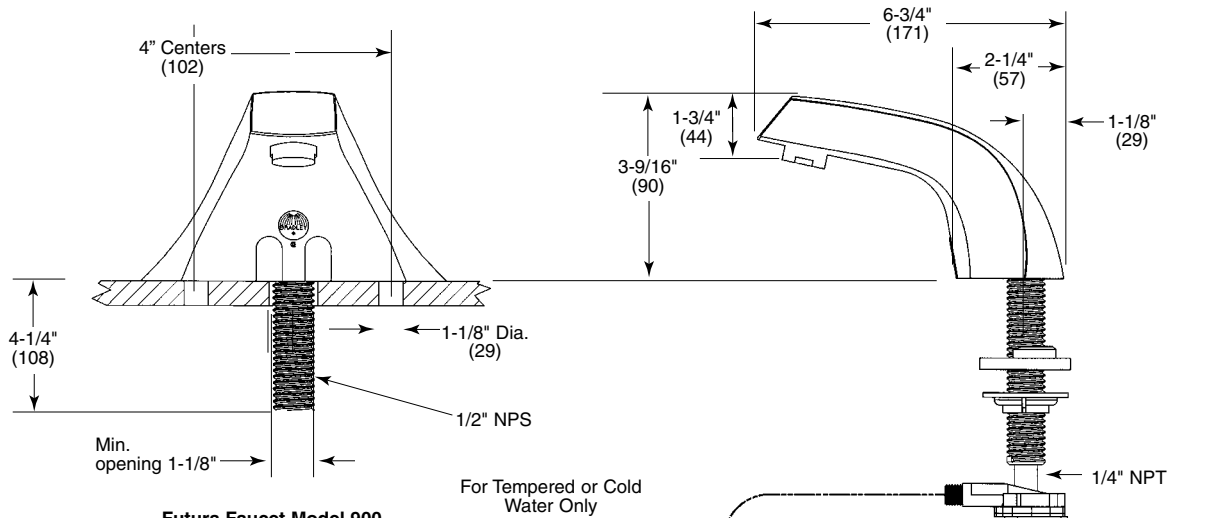
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# PLUMBING FIXTURES TECHNICAL DATA

Dimensions shown in parentheses are in millimeters.



Bradley Corporation reserves the right to make changes in design and material without formal notice and without incurring obligation. Verify all rough-in dimensions prior to installation.

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### Sample Specification

No-touch infrared faucet shall be Bradley Futura Model 900 with adaptive sensor module. Infrared sensor to use zone-focused transmitting beam, creating a detection area not exceeding the bowl perimeter. The infrared sensor module shall electronically activate a 24V solenoid valve using a 24-volt AC, 50/60Hz power supply. Infrared sensor module to have auto shut-off after 30-45 seconds of continuous triggering by a stationary object, a timing turn-off delay of 2 to 3 seconds. Sensor module send-and-receive optics shall be protected by a flush-mounted, shatter-resistant polycarbonate shield. Faucet shall include chrome-plated, solid cast brass body with center-shank mounting.

<b>MODEL</b> <u>Must select one</u>	
Model No.	Description
<input type="checkbox"/> 900	Centershank or 4" Centerset Mounting
<input type="checkbox"/> 900-8"	w/8" Centerset Mounting Plate

### OPTIONAL SELECTIONS

#### 24V Transformer:

- PT** Plug-In with Anti-Theft Bracket for Single Faucet Locations Only
- 4RT** Remote Transformer for 1-4 Faucets
- 8RT** Remote Transformer for 5-8 Faucets
- 12RT** Remote Transformer for 9-12 Faucets
- NT** None. Futura Faucets Set Up for Customer Supplied 24 VAC System

Transformers are UL/CSA listed, 120/24 VAC, 50/60 Hz, Class II. Location and box, if required, (by others) per local electrical code.

#### Water Supply:

- TMA** Thermostatic Mixing Valve Assembly: (Includes (2) Stop, Strainer and Check Valves)
- TL** Single Tempered Line

#### Cabinets with TMA: (LESS SOLENOIDS)

- TMAR** TMAR w/Recess-Mounted Cabinet
- TMAS** TMAS w/Surface-Mounted Cabinet

#### Temperature Selection Valve:

- MM2** User-Adjustable Mixing Valve for One Futura Faucet

### OPTIONAL SELECTIONS (continued)

#### Stainless Steel Cabinets with Thermostatic Mixing Assembly for Mounting Solenoid Valves:

- 1-4FTMAR** Recess-Mounted w/TMA capable of holding 1-4 solenoid valves (Solenoids furnished as standard w/faucets)
- 1-4FTMAS** Surface-Mounted w/TMA capable of holding 1-4 solenoid valves (Solenoids furnished as standard w/faucets)
- 5-8FTMAR** Recess-Mounted w/TMA capable of holding 5-8 solenoid valves (Solenoids furnished as standard w/faucets)
- 5-8FTMAS** Surface-Mounted w/TMA capable of holding 5-8 solenoid valves (Solenoids furnished as standard w/faucets)
- 9-12FTMAR** Recess-Mounted w/TMA capable of holding 9-12 solenoid valves (Solenoids furnished as standard w/faucets)
- 9-12FTMAS** Surface-Mounted w/TMA capable of holding 9-12 solenoid valves (Solenoids furnished as standard w/faucets)

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