Specifications
The Advocate® Lav System’s unique all-in-one design allows users to access soap, water and a hand dryer without leaving the hand washing station. This provides personal space and helps to prevent water from dripping off hands and on to the floor, making cleaning and maintenance easier while providing a safer restroom environment.

The AV-Series features a solid surface one-of-a-kind integral bowl. This system can be mounted at different heights to accommodate hand washing for adults, children, young children and those with disabilities.

Construction

Bowl
Constructed of Tereon®, a densified solid surface material composed of bio-based resin or Tereon®RE, a densified solid surface material composed of a bio-based resin and preconsumer recycled granules. Tereon and TereonRE are resistant to chemicals, stains, burns and impact. Surface damage can be easily repaired with everyday cleansers or fine grit abrasives.

Access Panel
The access panel of the Advocate lav system not only conceals plumbing and electrical connections, but also reduces time needed for installation and maintenance. Access panel is made from Class A fire-rated polystyrene. Access panel color: Coal.

End Panel
The end panels are deep drawn 18 gauge stainless steel. Stainless steel is polished 300 series with a #4 finish. End panels have internal stud welds for mounting to stainless steel frame described below.

Mounting Frame
The AV-Series includes welded 18 gauge stainless steel mounting frame with 14 gauge basin supports, eliminating the need for additional specifications and/or casework to support the fixture. All Advocate Lavatory Systems meet or exceed industry standards for load testing.

Faucet
The faucet sensor uses a collimated infrared transmitting beam as part of a position sensor to detect hands. Range is 4”. This creates a specific detection area near the faucet spout. Sensor activates 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. To ensure proper activation, lighting can not exceed 10,000 lux. The Bradley sensor is not affected by varying skin tones or darkness. The flow is a spray pattern at a rate of .38 gpm.

• Low Voltage Plug-In Adapter – A UL/CSA-listed 120VAC/120VDC or 230V/24 VAC, plug-in adapter powers the solenoid valve. The plug-in adapter, furnished as standard equipment, plugs into a standard GFCI protected electrical outlet.

Soap, water and hand dryer, unique all-in-one patent pending design
• Includes infrared, high speed, dual-sided hand dryer at each hand washing station
• Includes large capacity, top-fill, infrared soap dispenser, with low level indicator and one-of-a-kind overfill protection
• Includes hygienic hands-free infrared, 38gpm faucet
• Constructed of Tereon® Solid Surface Material
• Soap, faucet and dryer are pre-mounted to basin
• Meets International Codes & Standards

Valve
120DC, ¼” NPT electronically-activated slow-closing 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. Operating water pressure range is 20–80 psi. Flow regulator keeps flow rate constant at all pressures.

Soap Dispenser
Each hand washing station features an electronic liquid soap dispenser within the basin area. This eliminates any soap from dripping on counters or onto the floor, minimizing slip hazards and easy cleaning. Each dispenser features an integral check valve to hold prime for consistent reliable operation. Dispenser is top filled via a tamper resistant flip top cover accessed using a spinner wrench (included). Dispenser is compatible with most liquid soaps. Soap tank capacity is 64 oz. (1893 ml). The Advocate soap dispenser features built-in overflow protection using an audible chirp that increases in intensity when soap level approaches full. Soap level indicator flashes red when soap is low. The sensor uses a collimated infrared transmitting beam as part of a position sensor to detect hands. Sensor activation range is 2”. Intelligent electronics allow a maximum of three activations in a 15-second period, limiting the rate at which soap can be dispensed, preventing waste and deterring vandalism. Sensor can be activated at start up in automatic mode.

Hand Dryer
The hand washing station features an individual infrared-activated, energy efficient hand dryer. Dryer can be entered from the side immediately after washing hands. This virtually eliminates excess water on the floor. The one-of-a-kind dual-sided dryer features white LEDs to illuminate the dryer cavity while in stand-by mode, and amber LEDs while dryer is active. Dryer sensors can be turned off for 30 seconds while cleaning dryer area. The sensor uses a collimated infrared transmitting beam as part of a position sensor to detect hands. Range is 4”. The dual-sided dryer will dry hands in approximately 15 seconds. The dryer nozzles contain antimicrobial protection that inhibits the growth of microorganisms such as bacteria, mold, mildew, and fungus. Dryer motor, located inside the cabinet of the Advocate, has 3’ power cord that plugs into a standard 20-amp, 120-volt outlet or 10-amp outlet for the 230-volt model. Easily accessible filter housing uses standard rigid polyester replacement air filters. Dryer has an on/off disconnect switch. Dryer must be unplugged for any service. Hand dryer requires a dedicated 20 amp circuit or 10-amp outlet for the 230-volt model, and must be properly grounded. GFI circuit protection is recommended. Hand dryer is UL listed.

AV Dryer Option Code Voltage/Hz Watts Amps Circuit Required (Amps) CFM dB Plug Type
HD2 120/60 1150 12 20 69 80 B
HD3 230/50 1150 8.6 10 70 80 F
HD4 230/50 1150 8.6 10 70 80 G

Protected by one or more of the following patents: D663,016; D674,967. Other equipment, plugs into a standard GFCI protected electrical outlet.

This information is subject to change without notice.
Bradley_Sink_Advocate_AV30
Code Compliance and Certifications

Electrical Safety - United States and Canada
- UL 507 Electric Fans
- CSA C22.2 no. 113-10 Fans and Ventilators
- UL 60730-1 Electrical Controls for Household and Similar Use, Part 1: General Requirements.
- CSA-E60730-1-02, Automatic Electrical Controls for Household and Similar Use - Part 1: General Requirements
- FCC Part 15 Subpart B Class A

Electrical Safety - Europe
- IEC 60730-1 Automatic Electrical Controls for Household and Similar Use - Part 1: General Requirements
- IEC 60335-1 Household and Similar Electrical Appliances Safety Part 1: General Safety Requirements - Edition 4 - Revisions Date 2004/03/01
- IEC 60335-2-23 Household and Similar Electrical Appliances - Safety Pt. 2-23, Particular Requirements for Appliances for Skin or Hair Care - Edition 5.2 - Issue Date 2012/03/01
- EN 61000-3-2 Harmonic Current Emissions
- EN 61000-3-3 Limits - Limitation of Voltage Changes, Voltage Fluctuations and Flicker in Public Low-Voltage Supply Systems, for Equipment with Rated Current ≤ 16A per Phase and not Subject to Conditional Connection
- EN 61000-6-2 Generic Standards - Immunity for Industrial Environments
- EN 61000-6-4 Generic Standards - Emission Standard for Industrial Environments
- EN62233: 2008 Measurement Measurements for Electromagnetic Fields of Household Appliances and Similar Apparatus with Regard to Human Exposure

Plumbing - United States and Canada
- CSA B45.0 General Requirements for Plumbing Fixtures
- B45.5/IAPMO Z124 Plastic Plumbing Fixtures
- ASME A112.18.1-2011/CSA B125.1-11 Plumbing Supply Fittings
- ASME 1070-2004 Performance Requirements for Water Temperature Limiting Devices
- IAPMO IGC 156 Washfountains and Lavatory Systems with or without Water Closets
- NSF/ANSI 372-2011 Drinking Water System Components - Lead Content

Plumbing - Europe
- EN 14688 Washbasins. Functional Requirements and Test Methods
- EN 695 Kitchen Sinks. Connecting Dimensions
- EN 31 Washbasins. Connecting Dimensions

Solid Surface - United States and Canada
- CSA B45.5/IAPMO Z124 Plastic Lavatories - Home Innovation Lab Certified
- ASTM E84 Surface Burn Characteristics - Rated Flame Class A
- GREENGUARD Certified as low emitting materials.

Solid Surface - Europe
- DIN ISO 4586-2: 07-1997 High-Pressure Decorative Laminate Sheets Made from Thermosetting Resins - Part 1: Classification and Specifications
- DIN EN 438 - Part 1 1991 High-Pressure Decorative Laminates (HPL). Sheets Based on Thermosetting Resins (Usually Called Laminates). Classification and Specifications for Alternative Core Laminates
- DIN EN13501-1 Fire Classification of Construction Products and Building Elements - Part 1: Classification Using Data from Reaction to Fire Tests Rated B-s1, d0

Standard Height Mounting
The standard height hand washing stations are designed to be mounted with a 34" rim height to comply with all ADA guidelines on reaches and clearances.

Juvenile Height Mounting
The juvenile height hand washing stations are designed to be mounted at 31" rim height to comply with all ADA guidelines, and ANSI A117.1 standard, for reaches and clearances. Source: ADA Accessibility Guidelines for Buildings and Facilities (ADAAG) as amended through August 5, 2005.

Junior Height Mounting
The Junior Height option is designed to be mounted at a 26" rim height for use by younger children where ADA guidelines are not a concern.

Hand Dryer
The Advocate Lavatory System hand dryer meets requirements for safety as listed by Underwriters Laboratories, Inc.

This plumbing fixture is designed for hand washing only. It is not intended to dispense water for human consumption through drinking or for preparation of food or beverages.

Standard product selections contained within this document are third party CERTIFIED to NSF/ANSI 372 meeting the Lead-Free content requirement. Any product configured with custom options will be COMPLIANT with NSF/ANSI 372 meeting the Lead-Free content requirement.

Standard Equipment
AV30 Advocate lavatory system features one hand washing station with hands-free .38gpm flow faucet, soap dispenser and one hand dryer. These components are composite fiberglass, reinforced polymer with a painted, clear coat finish. End panels are satin finish 300 series stainless steel. Heavy gauge stainless steel mounting system. Trap cover is easily removed for service and encloses the following fittings: offset drain; P-trap; flexible stainless steel supply connections; and ASSE 1070 Navigator® thermostatic mixing valve with combination stop/strainer/check valves.
Dimensions for AV-Series Advocate Lavatory Systems

Top View

Front View

Clear floor space

30" (762mm) min. ADA

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P.O. Box 309, Menomonee Falls, WI 53052-0309
800 BRADLEY (800 272 3539) +1 262 251 6000
bradleycorp.com
Dimensions for AV-Series Advocate Lavatory Systems

**Standard Height**

- 29" (737mm) ADA min.
- 32" (813mm) ADA max.
- 33 3/4" (845mm) ADA max.
- 34" (864mm) ADA max.
- 36 1/4" (921mm)
- 40" (1016mm) ADA max.
- 40" (1016mm) ADA max.
- 38 1/4" (972mm)
- 17 5/8" (445mm)
- 9" (229mm) ADA min.*
- 6 1/2" (165mm)
- 8" (203mm) ADA min.*

**Juvenile Height**

- 37" (940mm) ADA max.*
- 35 1/4" (895mm)
- 14 1/2" (368mm)
- 9" (229mm) ADA min.*
- 6 1/2" (165mm)
- 8" (203mm) ADA min.*

**Junior Height**

- 38 1/4" (972mm)
- 33 3/4" (845mm) ADA max.
- 31" (787mm) ADA max.*
- 29" (737mm)
- 6 1/2" (165mm)
- 8" (203mm) ADA min.*

* ADA ABA Guidelines, 2004; Chapter 6: Plumbing Elements and Facilities; 606.3 Height
Dimensions for AV-Series Advocate Lavatory Systems

**TAS Height**

**Grades 6 through 8 or 9**

- **37” (940mm) ADA max.**
- **36¼” (921mm)**
- **15¼” (384mm)**
- **9” (229mm) ADA min.**

**ADA min.**

- **6” (152mm)**
- **8” (203mm) ADA min.**
- **17” (432mm) min.**

**ADA max.**

- **30” (762mm)**
- **31¼” (790mm)**

**Grades Pre-K through 5 or 6**

- **22¼” (578mm)**
- **13¼” (343mm)**
- **9” (229mm) ADA min.**

**ADA min.**

- **6” (152mm)**
- **8” (203mm) ADA min.**
- **17” (432mm) min.**

**ADA max.**

- **30” (762mm)**
- **32¼” (815mm)**

**34” (864mm) ADA max.**

**TAS Height**

**Grades 6 through 8 or 9**

- **34¼” (870mm)**
- **34” (864mm) ADA max.**
- **13½” (343mm)**
- **9” (229mm) ADA min.**

**ADA min.**

- **6” (152mm)**
- **8” (203mm) ADA min.**
- **17” (432mm) min.**

**ADA max.**

- **30” (762mm)**
- **29½” (749mm)**

**Grades Pre-K through 5 or 6**

- **22¼” (578mm)**
- **13½” (343mm)**
- **9” (229mm) ADA min.**

**ADA min.**

- **6” (152mm)**
- **8” (203mm) ADA min.**
- **17” (432mm) min.**

**ADA max.**

- **30” (762mm)**
- **29½” (749mm)**
Rough-Ins (hot/cold, drain, electrical, and valve) for AV30 Advocate Lavatory Systems (standard height shown)

<table>
<thead>
<tr>
<th>CODE</th>
<th>DESCRIPTION</th>
<th>QTY.</th>
</tr>
</thead>
<tbody>
<tr>
<td>H, C</td>
<td>½&quot; nominal (⁵⁄₈&quot; O.D. Comp.) Hot/Cold Supplies, Stub-Out 2&quot; (51mm) From Wall</td>
<td>1</td>
</tr>
<tr>
<td>D</td>
<td>1½&quot; NPT Drain, Stub-Out 2&quot; (51mm) From Wall</td>
<td>1</td>
</tr>
<tr>
<td>E</td>
<td>20-amp, 120-volt GFI Protected Electrical Outlet or 10-amp minimum circuit required for 230V (based on product selections) Circuit breaker to have a minimum instantaneous overload current rating of 6 times the circuit breaker’s ampere rating.</td>
<td>1</td>
</tr>
<tr>
<td>F</td>
<td>#10 Anchors for Valve Bracket Installation</td>
<td>2</td>
</tr>
</tbody>
</table>

### RIM HEIGHT

<table>
<thead>
<tr>
<th>RIM HEIGHT</th>
<th>VERTICAL HEIGHT ADJUSTMENTS FOR CODES A, B, H, C, D and E</th>
<th>FIXTURE STYLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>34&quot; (864mm)</td>
<td>No Adjustment</td>
<td>Standard</td>
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<tr>
<td>31&quot; (787mm)</td>
<td>Subtract 3&quot; (76mm)</td>
<td>Juvenile</td>
</tr>
<tr>
<td>26&quot; (660mm)</td>
<td>Subtract 8&quot; (203mm)</td>
<td>Junior</td>
</tr>
<tr>
<td>32&quot; (813mm)</td>
<td>Subtract 2&quot; (51mm)</td>
<td>TAS Grades 6 through 8 or 9</td>
</tr>
<tr>
<td>30&quot; (762mm)</td>
<td>Subtract 4&quot; (102mm)</td>
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</tr>
</tbody>
</table>
## Backing Rough-Ins for AV30 Advocate Lavatory Systems (standard height shown)

![Diagram of Backing Rough-Ins for AV30 Advocate Lavatory Systems](image)

### CODE | DESCRIPTION | QTY.
--- | --- | ---
A | \(\frac{3}{8}\)" Bowl Anchors with a Minimum Pull-Out Force of 1,000 lbs. | 2
B | \(\frac{3}{8}\)" Frame Anchors with a Minimum Pull-Out Force of 1,000 lbs. | 4

### Vertical Height Adjustments for Codes A, B, H, C, D and E

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## Model
- AV30 Advocate Lavatory System – AV-Series

## Standard Selections (Must select one from each category)

### Activation Type
- IRP Faucet Spout with Adaptive Infrared

### Soap Dispenser Type
- 1 Electronic Soap Dispenser

### Water Supply Type
- 2 Tempered Line
- 3 Navigator Thermostatic Mixing Valve

### Hand Dryer Type
- HD2 Brushless DC Motor 120v/60hz, 20 Amp (Type "B")
- HD3 Brushless DC Motor 230v/50hz, 10 Amp (Type "F")
- HD4 Brushless DC Motor 230v/50hz, 10 Amp (Type "G")

### Component Finish (Faucet, Soap, Dryer)
- VS Vapor Silver

### Color of Terreon Bowl (select one):
- Standard Colors
  - CHAR Charcoal Gray
  - COBBLE Cobblestone
  - DRIFT Driftwood
  - DUNE Sand Dune
  - E-GRAY Empire Gray
  - GRAPH Graphite
  - LANNON Lannonstone
  - LONDON London Gray
  - MOONSTONE Moonstone
- Element Colors
  - SS-GRAY Soapstone Gray
  - O-TAUPE Organic Taupe
  - CA-TAN Canyon Tan
- Designer Colors *
  - ARC-CHIP Arctic Chip
  - RIVER Riverstone
- TerreonRE Colors *
  - BIRCH-BARK Birch Bark
  - MOONDUST Moondust
  - DUSK Dusk
  - OAT Oat

### Access Panel Type
- PD High Impact Polymer, Coal

### Waste Assembly Type
- D Chrome (Single)
- G Polypropylene (Single)

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*  Designer and TerreonRE colors available at an additional charge (non-cancelable, non-returnable).
† This color contains large, randomly distributed chips.