



MG-2

Express® Lavatory System – MG-Series

- ADA and TAS Compliant
- Serves One or Two Users at a Time
- Standard Lavatory Spacing on 30" Centers
- Continuous Bowl, Sprayhead and End Caps are Constructed of Terreon® or Terreon®RE Solid Surface Material
- Available in a variety of colors
- Reliable Plug-in, Battery or NDITE® Infrared Activation, Push Button Air Valve, or TouchTime® Metering Control

Specifications

The flowing "wave" design accommodates one to two users. Units handle washroom traffic quickly and economically, while providing each user with personal space. Lavatories for the system are positioned on 30" centers. Bradley's continuous bowl features a contemporary flowing "wave" design. This unique "wave" pattern is repeated in the sprayhead, integrating the components. The preassembled sprayhead module is equipped with independent aerators, each served by separate infrared sensing module and solenoid valve (Model MG-2/IR) or (Model MG-2/NDT), push button air metering valve (Model MG-2/AST4), push button TouchTime® electronic metering control (Model MG-2/TT) or independent battery IR sensor and batteries (Model MG-2/BIR3). Operating range is 20–80 PSI. Flow restrictor keeps flow rate constant at all pressures. Flow rate: 0.5 GPM.

Construction

Bowl, Sprayhead and Pedestal End Caps

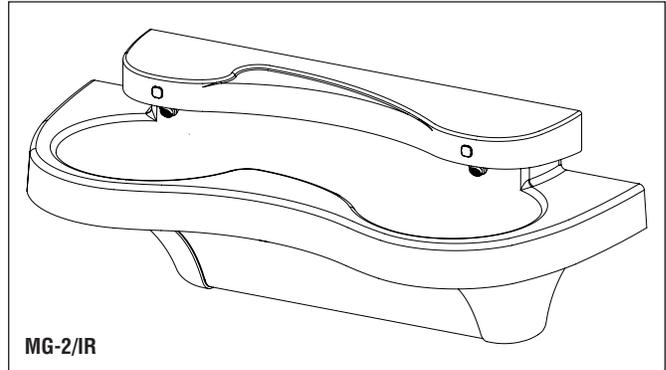
Constructed of Terreon, a densified solid surface material composed of polyester resin, or TerreonRE, a densified solid surface material composed of a bio-based resin and preconsumer recycled granules. Terreon and TerreonRE are resistant to chemicals, stains, burns and impact. Surface damage can be easily repaired with everyday cleansers or fine grit abrasives. Terreon and TerreonRE are certified by NAHB to meet ANSI Z124.3, Z124.6 and ANSI/ICPA SS-1. Terreon and TerreonRE are GREENGUARD® certified as low-emitting materials.

Support Frame and Access Panel

Bowl assembly and pedestal end caps are secured to a heavy gauge stainless steel support frame mounted to the wall. The contoured front access panel is constructed of 300 series stainless steel.

Vandal Resistance

The molded solid surface sprayhead is an integral part of the bowl module. A free-spinning collar protects the aerator from vandalism. The infrared sensor will automatically shut off water flow after 30–45 seconds if a vandal attempts to trigger constant operation by covering the sensor, or by placing a stationary object in the sensor's detection area. Push buttons are secured to the unit from inside the sprayhead. Air valves, water supplies and waste are concealed within the pedestal/support frame assembly.



Code Compliance and Certifications

ANSI Standards

Terreon and TerreonRE are NAHB certified to meet ANSI Z124.3, Z124.6 and ANSI/ICPA SS-1.

cUPC Approval

Express Lavatory Systems are Uniform Plumbing Code (UPC), International Plumbing Code (IPC) and National Plumbing Code of Canada (NPC) approved through the International Association of Plumbing and Mechanical Officials (IAPMO). Manufactured in compliance with IGC 156, CSA B45 Series (R08) & ASME A112.18.1/CSA B125.1.

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 Height Mounting

The Express Lavatory System model MG-2 mounted at standard height is designed to comply with all ADA guidelines on reaches, clearances and operation. To comply with ADA, the rim height of the Express Lavatory System bowl must be 33.5" maximum above the finished floor.

Juvenile Height Mounting

The Express Lavatory System model MG-2 is designed to mount at different heights to comply with guidelines on reaches, clearances and operation for various codes including, ADA Accessibility Guidelines for Buildings and Facilities (ADAAG) and TAS (Texas Accessibility Standards). Always check your local and state codes.



Verify all rough-in dimensions prior to installation.

Consult local and national codes. Conformity and compliance to local and national codes is the responsibility of the installer.

Page 1 of 5 2/12/2016

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Standard Equipment

Continuous bowl with two lavatories, sprayhead, pedestal, stainless steel mounting frame (as described above), 110/24 VAC plug-in transformer (Model MG-2/IR and Model MG-2/TT). Batteries are included (Model MG-3/BIR3). The following fittings are provided: P-trap; tailpiece; two flexible stainless steel supply connections; and Navigator® thermostatic mixing valve with stops.

Activation Controls

Infrared Sensor (Model MG-2/IR)

The sensor module uses a conical infrared transmitting beam, creating a wide detection area. 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.

- Solenoids – 24V, 50/60 Hz, 1/8" 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. Neither the solenoid valve nor the infrared sensor module need adjustment for range or timing.
- Low Voltage Transformer – A Class II, UL/CSA-listed 110/24 VAC, plug-in transformer powers the solenoid valves. The transformer, furnished as standard equipment, plugs into a standard GFCI protected electrical outlet.

Push Button Control (Model MG-2/AST4)

Each push button activates a non-hold-open air valve with field adjustable timing from 0–45 seconds. Factory set at 10 seconds. Each push button activates one valve which, in turn, activates one hand washing station.

TouchTime® Metering Control (Model MG-2/TT)

Each low voltage push button actuates a non-hold-open, slow closing anti-hammer solenoid valve that is timed from an electronic potted assembly. Each push button activates one valve, which, in turn, activates one station (streamformer). TouchTime controls water flow at each station through the use of solid-state, digital circuitry. Timing is electronically controlled at 15 seconds.

Battery Infrared Sensor (Model MG-2/BIR3)

Each battery-powered sensor uses a zone-focused infrared transmitting beam, creating a large detection area. The sensor is not affected by varying skin tones or darkness. When hands enter the detection area, the sensor starts water flow by opening the valve electronically. When hands leave the detection area, the sensor stops the flow of water by closing the valve. The 6-volt DC, electronically activated solenoid valve has few moving parts, providing reliable operation that is unaffected by most chemicals and minerals often present in municipal water supplies. Each station is powered by a single lithium battery. Battery type is Duracell® DL 223A 6-volt lithium or equivalent (batteries included) with a life expectancy of 4–5 years or approximately 200,000 cycles.

NDITE Infrared Control (Model MG-2/NDT)

The photovoltaic cells are permanently embedded in the top of the sprayhead with a clear version of Terreon or TerreonRE.

The NDITE power management module is a proprietary unit that stores and provides power to the sensors and solenoid. This efficient module allows the system to work without batteries, eliminating the need to change or dispose of batteries.

Each NDITE-powered sensor uses a conical-shaped transmitting beam, creating a wide detection area. The detection area projects forward 15° to each side and 15° below horizontal. The adaptive infrared sensor automatically adapts to the bowl after power is turned on. The electronically activated solenoid valve has few moving parts, providing reliable operation that is unaffected by most chemicals and minerals often present in municipal water supplies. Each lavatory system is powered by one NDITE power management module. Restrooms with 400 lux of lighting will provide a sufficient amount of light to power the system. For more information on NDITE technology, visit bradleycorp.com.

Optional Equipment

Soap Dispensers

One horizontally-mounted pump-style valve is located over the drain. Soap tank is located within the stainless steel frame. Soap tank is refillable through an easily accessible exterior filler cap. Filler cap is vandal resistant and opens with special spanner wrench included. Soap tank capacity is 3/4 gallon.

For information on Terreon and TerreonRE Waste Receptacles for the Express MG-Series, visit bradleycorp.com.

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Page 2 of 5 2/12/2016

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Rough-Ins

Mounting for Standard Height Is Shown

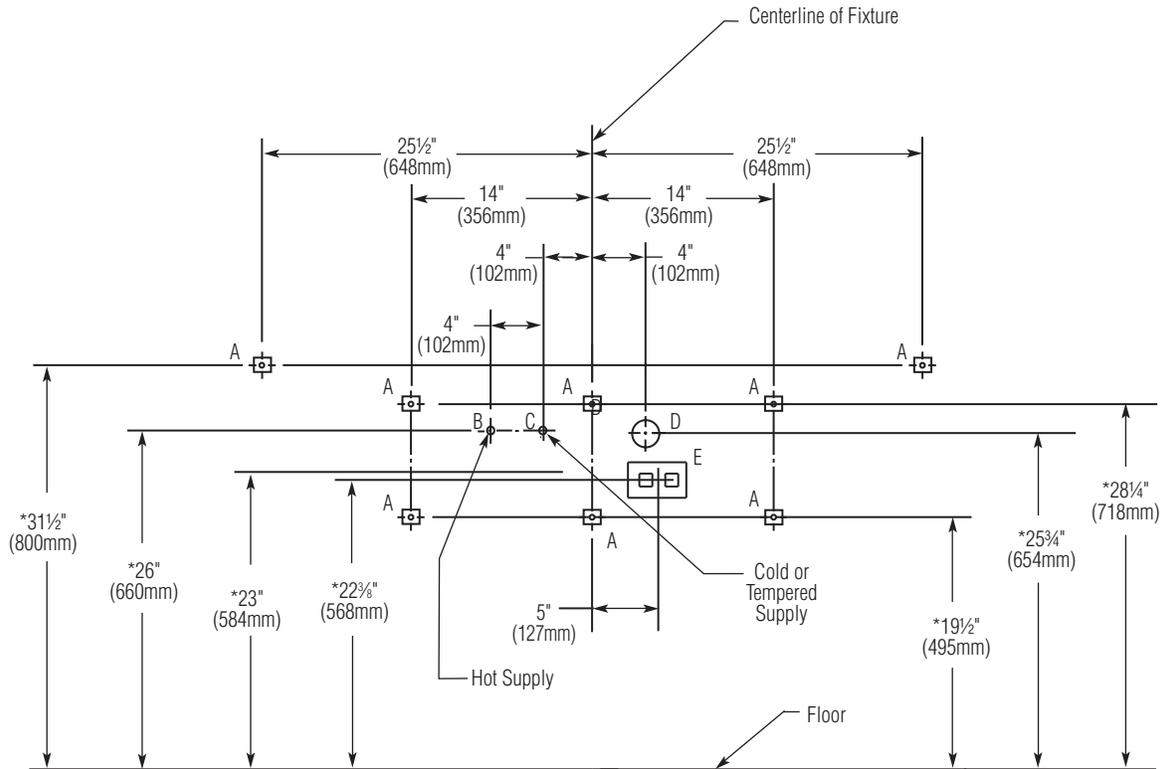


Chart 1

Std. Height	Vertical Height Adjustments Codes A, B, C, D, E, F and G	Fixture Style
*	None	Standard Height
*	Subtract 4"	Juvenile Height
*	Subtract 1 1/2"	TAS, Grades 6 through 8 or 9
*	Subtract 3 1/2"	TAS, Pre-K through Grades 5 or 6

Chart 2

Code	Description	Qty.
A	3/8" Wall Anchors with a minimum pull out force of 1,000 lbs.	8
B	1/2" Nominal Copper Tubing for Hot Supply, Stub-Out 2" from Wall	1
C	1/2" Nominal Copper Tubing for Cold or Tempered Supply, Stub-Out 2" from Wall	1
D	1 1/2" NPT Drain, Stub-Out 2" from Wall	1
E	110V GFCI Protected Electrical Outlet. I.R. and TouchTime Only	1

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Page 4 of 5 2/12/2016

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Standard Selections (Must select one from each category)	
Sprayhead	
<input type="checkbox"/> IR	Sprayhead w/Infrared Control
<input type="checkbox"/> AST4	Sprayhead w/Air Valve Control
<input type="checkbox"/> TT	Sprayhead w/TouchTime® Control
<input type="checkbox"/> BIR3	Sprayhead w/Battery Infrared Control
<input type="checkbox"/> NDT	Sprayhead w/NDITE Infrared Control *
Soap Dispenser (select one)	
<input type="checkbox"/> LSD-2	Liquid Soap Dispenser (MG-2)
<input type="checkbox"/> NSD	No Soap Dispenser
Water Supply (select one)	
<input type="checkbox"/> TMA	Navigator Thermostatic Mixing Assembly (Hot and Cold Supplies)
<input type="checkbox"/> TL	Single Tempered Line
Color of Terreon Bowl/Sprayhead Cover (select one)	
<i>Standard Colors</i>	
<input type="checkbox"/> ALP-WHT**	Alpine White
<input type="checkbox"/> AVALANCHE**†	Avalanche
<input type="checkbox"/> BONE	Mesa Bone
<input type="checkbox"/> CHAR	Charcoal Gray
<input type="checkbox"/> COBBLE	Cobblestone
<input type="checkbox"/> DRIFT**†	Driftwood
<input type="checkbox"/> DS-WHT	Designer White
<input type="checkbox"/> DUNE**†	Sand Dune
<input type="checkbox"/> E-GRAY	Empire Gray
<input type="checkbox"/> GLACIER**	Glacier
<input type="checkbox"/> GRAPH	Graphite
<input type="checkbox"/> LANNON	Lannonstone
<input type="checkbox"/> LONDON	London Gray
<input type="checkbox"/> MOONSTONE**†	Moonstone
<input type="checkbox"/> O-TAUPE	Organic Taupe
<input type="checkbox"/> PEBBLE**	Pebble Beach
<input type="checkbox"/> PEP-WHT	Peppered White
<input type="checkbox"/> POLAR**†	Polar Ice
<input type="checkbox"/> SAND	Sandtrap
<input type="checkbox"/> S-CREEK**	Stone Creek
<input type="checkbox"/> S-MIST**	Silver Mist
<input type="checkbox"/> WHT-SAND	White Sand
<i>Designer Colors* (available at an additional charge)</i>	
<input type="checkbox"/> ARC-CHIP	Arctic Chip
<input type="checkbox"/> RIVER	Riverstone
<input type="checkbox"/> COFFEE	Coffee Bean
<i>TerreonRE Colors* (available at an additional charge)</i>	
<input type="checkbox"/> BIRCH-BARK	Birch Bark
<input type="checkbox"/> DUSK	Dusk
<input type="checkbox"/> MOONDUST	Moondust
<input type="checkbox"/> OAT	Oat
Optional Selections	
P-Trap:	
<input type="checkbox"/> S-CHROME	Single Chrome-Plated P-Trap

*Non-cancelable, non-returnable

**Color not available when NDITE (NDT) option is selected.

† This color contains large, randomly distributed chips.

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Page 5 of 5 2/12/2016

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