Introduction to Bradley Washfountains
The Benefits of Specifying Bradley Washfountains

Cost Savings Compared to Individual Lavatories

Lower Installation Costs:

- Tough, attractive and vandal-resistant. One washfountain equals 2-8 lavs.
- One set of water supplies serves multiple wash stations.
- One waste connection serves multiple wash stations.

Lower Operating Costs:

- Use less water and less energy (required to heat water).
- Less floor space is required and a more versatile space utilization is provided (semi, circle, and corner models).
- Valves automatically shut off when user is finished on the foot control, air valve, TouchTime® and infrared activated models.

Maintenance Benefits

Less Service and Cleaning/Lower Maintenance Costs:

- Single fixture, single set of water supplies, and single waste connection.
- Single, continuous bowl surface reduces cleaning time.
- Heavy-duty materials and design.

Vandal-Resistance Features

- Several heavy-duty materials to chose from including stainless steel, Bradstone, terrazzo, and Terreon®.
- Supplies, waste valves, soap systems, etc. are concealed within the pedestal of most models.

User-Efficiency Benefits

Bradley washfountains handle high traffic hand-washing applications by providing more hand-washing stations per square foot than conventional lavatories: perfect for stadiums, schools, manufacturing facilities, etc.

Barrier-Free, ADA Compliant

Many barrier-free, ADA compliant models are available in Terreon and terrazzo Multi-Founts, Terreon deep bowl washfountains, Sentry washfountains, and BradMate™ washfountains.

The Right Washfountain for the Right Application

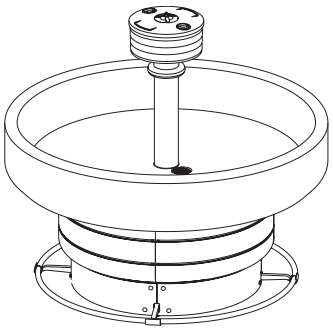
Many choices to meet specific job requirements:

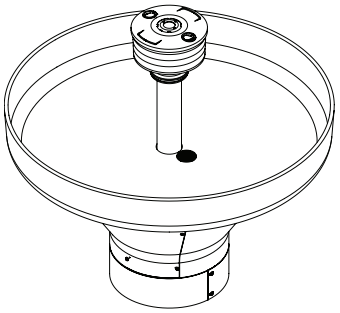
- Stainless steel, Terrazzo, Bradstone, and Terreon units.
- Deep bowl and shallow bowl units.
- Circular, semi-circular, and corner configurations.
- Terreon, terrazzo, and Bradstone models available in various colors.
- Hand, foot, TouchTime and infrared controls.
- Air metering valves, push button activated solenoid valves, hold-open foot valves and infrared-actuated solenoid valves.
- Many barrier-free, ADA compliant models to choose from.

ADA COMPLIANT

Classic Washfountains

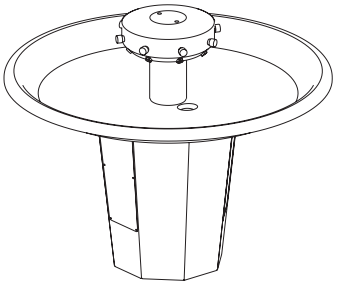
Model W2608 shown:
8-station 54" circular deep bowl Classic washfountain with foot control.





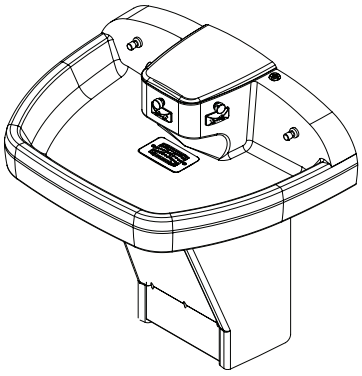
Terreon Deep Bowl Washfountain

Model W3108 shown:
54" model ADA compliant with adaptive I/R activation.



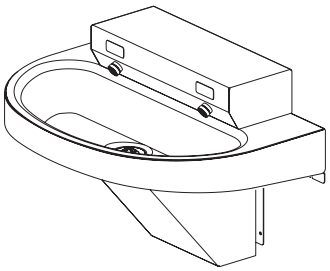
Sentry Washfountains

Model W2008 shown:
8-station 54" circular Sentry washfountain with push button air metering control.



Multi-Founts

Model W2933 shown:
3-station Terreon Tri-Fount with push button air metering control.



BradMates

Model S93-574 shown:
2-station preassembled BradMate washfountain with infrared control.

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Classic and Sentry Washfountains Capacities and Space Requirements

Classic and Sentry Washfountain Capacities

Most building codes and OSHA have accepted 20" of curved washfountain rim as equal to one lavatory. This ratio has been proven satisfactory over years of usage. A ratio of one wash-up station for each of 5-6 users has proven desirable for factories and other installations where fast wash-up is required. See the table to the right for total washfountain capacities based on 1 station for each of 5-6 users (1:5-6).

Washfountain Capacities (mm)

Bowl Size/ Shape	Simultaneous User Capacity	Fixture Capacity Ratio of 1:5-6
54" Circular	Up to 8 Users	40-50 Users
36" Circular	Up to 5 Users	25-30 Users
54" Semi-Circular	Up to 4 Users	20-25 Users
36" Semi-Circular	Up to 3 Users	15-20 Users
54" Corner	Up to 3 Users	15-20 Users

Classic and Sentry Washfountain Space Requirements

Washfountains require less floor space than an equivalent number of lavatories. Semi-circular washfountains will fit in long, narrow washrooms equally well as lavatories. Circular washfountains work well in large change rooms or corridor installations. The corner washfountain makes use of wasted space. See Figures 1 and 2 below for a space comparison between conventional lavatories versus Classic and Sentry washfountain configurations.

Figure 1

Three 20" x 18" conventional lavatories on 30" centers versus one 36" semi-circular washfountain:

- Washfountain space requirements — **18 SQUARE FEET** including 24" of "people space" around rim
- Conventional lavatories space requirements — **22 SQUARE FEET** including 24" of "people space" and 4" cleaning clearance on sides.

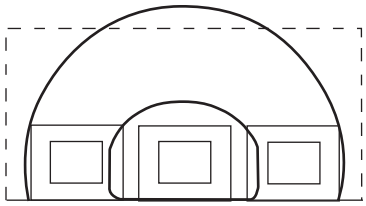
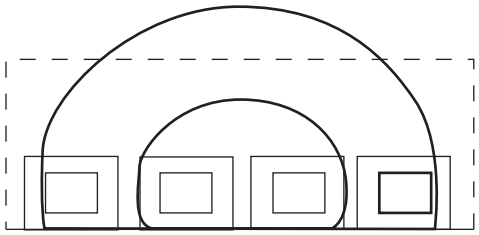


Figure 2

Four 20" x 18" conventional lavatories on 30" centers versus one 54" semi-circular washfountain:

- Washfountain space requirements — **28 SQUARE FEET** including 24" of "people space" around rim
- Conventional lavatories space requirements — **36 SQUARE FEET** including 24" of "people space" and 4" cleaning clearance on sides.



Classic and Sentry Washfountain Minimum Practical Clearances

Classic and Sentry washfountains should have a clearance of 48" between washfountains, and 24" from the front or side of the washfountain to the wall (see Figures 3 and 4 below).

Figure 3: Circular and Corner Models

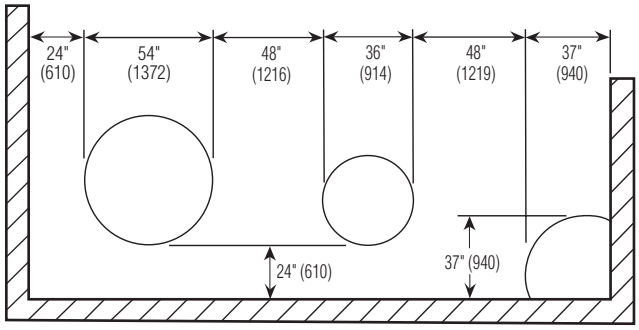
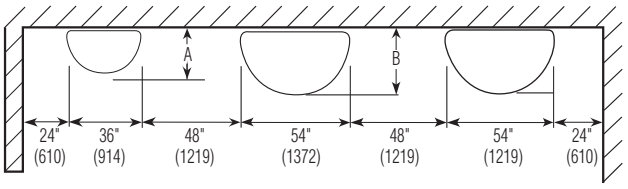


Figure 4: Semi-Circular Models



Bowl Material	Dimension A	Dimension B
Terrazzo (Classics Only)	22-3/4" (578)	32-1/4" (819)
Bradstone (Classics Only)	25-3/4" (654)	35-1/4" (895)
Stainless Steel	25-3/4" (654)	35-1/4" (895)
Terreon	32-1/4" (819)	22-3/4" (578)

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Classic and Sentry Washfountains: Comparative Washfountain Costs and Water Consumption

Comparison Information

The table below illustrates a cost comparison based on 1 washfountain versus 8 lavatories according to the following criteria:

- **Washfountain** — circular 54" washfountain with foot control, constructed of precast terrazzo (8 user stations)
- **Lavatory** — 19" x 17" wall-hung lavatory, vitreous china, institutional grade. Including hot and cold self-closing lavatory faucets, supplies, stop, trap and strainer and In-Wall Carriers.

All costs include installation, overhead, and profit.

Total Cost for 8 Single Commercial Lavatories = **$ 15,548.32**

Total Cost for 1 Circular Washfountain = **$ 5,864.77**

TOTAL SAVINGS = $ 9,683.55

See table below.

Source: RS Means Facilities Construction Cost Data, 2007 ed.
Updated: 8/06/07

Lavatory	Single Unit	8 Users	Washfountains	Single Unit	8 Users
Wall-Hung Vitreous China 19"x17", Single Bowl	$ 179.00	$ 1,432.00	54" Circle, Terrazzo, Foot Control	$3,950.00	$3,950.00
In-Wall mounted Flat Slab Carrier	$ 216.00	$ 1,728.00	Rough-In, Supply and Waste for Washfountain	$ 315.00	$ 315.00
Self-Closing, Center Set Lavatory Faucet	$ 191.00	$ 1,528.00	Total Labor (calculated from chart above)	$ 755.00	$ 755.00
Rough-In, Supply and Waste for Lavatory	$ 365.00	$ 2,920.00	Total Overhead & Profit (see formula below)	$ 844.77	$ 844.77
Total Labor (calculated from chart above)	$ 577.50	$ 4,620.00			
Overhead & Profit (see formula below)	$ 415.04	$ 3,320.32			
Total Cost		**$15,548.32**	**Total Cost**	**$5,864.77**	**$5,864.77**

Water Consumption

Classic Washfountain

Classic washfountains utilize a non-sectional sprayhead module in which the entire sprayhead can be activated by one user. Classics can save as much as 80% in water consumption because they serve groups of several users with slightly more water than used by one person at an individual lavatory.

Sentry Washfountain

Sentry washfountains utilize a sectional sprayhead module in which each user activates his own spray nozzle. When compared with individual faucets, the sectional sprayhead allows each station to save 2.0 GPM; as an example, 3 people using one Sentry would result in a water consumption of 1.5 GPM compared to 7.5 GPM for 3 individual faucets (a savings of 6.0 GPM).

The table below illustrates the maximum water consumption savings offered by the use of Classic and Sentry washfountains versus a comparable number of lavatories.

Fixture	Flow Rate	Number of Users								Maximum Savings
		1	2	3	4	5	6	7	8	
Lavatory Faucets	2.5 GPM	2.5	5.0	7.5	10.0	12.5	15.0	17.5	20.0	X
Classics:										
36" Semi-Circular	1.25 GPM	1.25	1.25	1.25	X	X	X	X	X	6.25
54" Semi-Circular	3.0 GPM	3.0	3.0	3.0	3.0	X	X	X	X	7.0
36" Circular	2.0 GPM	2.0	2.0	2.0	2.0	2.0	X	X	X	10.5
54" Circular	5.0 GPM	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	15
Sentrys:										
36" Semi-Circular	0.5 GPM	0.5	1.0	1.5	X	X	X	X	X	6.0
54" Semi-Circular	0.5 GPM	0.5	1.0	1.5	2	X	X	X	X	8.0
36" Circular	0.5 GPM	0.5	1.0	1.5	2	2.5	X	X	X	10.0
54" Circular	0.5 GPM	0.5	1.0	1.5	2	2.5	3.0	3.5	4.0	16.0
54" Corner	0.5 GPM	0.5	1.0	1.5	X	X	X	X	X	6.0

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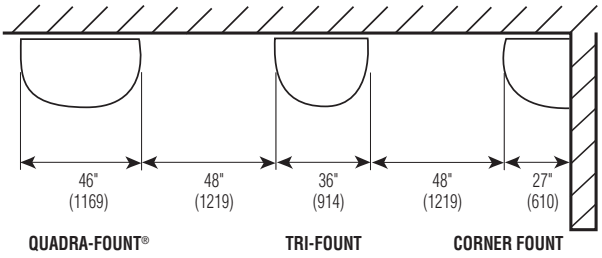
Multi-Founts and BradMates: Minimum Practical Clearances and Water Consumption

(mm)

Multi-Fount Minimum Practical Clearances

Allow 48" (1219mm) of clearance between Multi-Founts, and a minimum of 24" (610mm) between multi-founts and wall (see Figure 5 below).

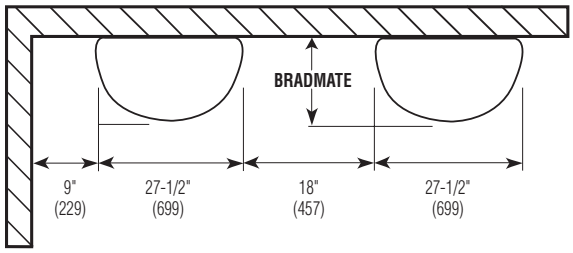
Figure 5: Multi-Fount Minimum Practical Clearances



BradMate Minimum Practical Clearances

Allow 18" (457mm) of clearance between BradMates, and a minimum of 9" (229mm) between BradMates and wall (see Figure 6 below).

Figure 6: BradMate Minimum Practical Clearances



Water Consumption

Multi-Founts

Multi-Fount washfountains utilize a sectional sprayhead module in which each user activates one individual streamformer.

Water Consumption

BradMates

BradMate washfountains with ACCU-ZONE infrared, push button TouchTime, or push button air metering control utilize a sectional sprayhead module in which each user activates one individual spray nozzle.

The table below illustrates the maximum water consumption savings offered by the use of Classic and Sentry washfountains versus a comparable number of lavatories.

Fixture	Flow Rate	Number of Users								Maximum Savings
		1	2	3	4	5	6	7	8	
Lavatory Faucets	2.5 GPM	2.5	5.0	7.5	10.0	12.5	15.0	17.5	20.0	X
Multi-Founts:										
Tri-Fount	0.5 GPM	0.5	1.0	1.5	X	X	X	X	X	6.0 GPM
Quadra-Fount	0.5 GPM	0.5	1.0	1.5	2.0	X	X	X	X	8.0 GPM
Corner-Fount	0.5 GPM	0.5	1.0	X	X	X	X	X	X	4.0 GPM
Wall-Hung	0.5 GPM	0.5	1.0	1.5	X	X	X	X	X	6.0 GPM
Bradmate:										
All Models	0.5 GPM	0.5	1.0	X	X	X	X	X	X	4.0 GPM

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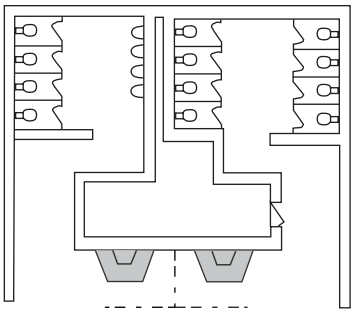
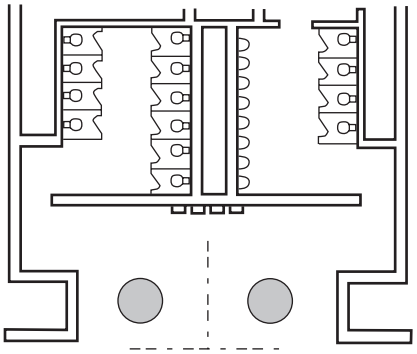
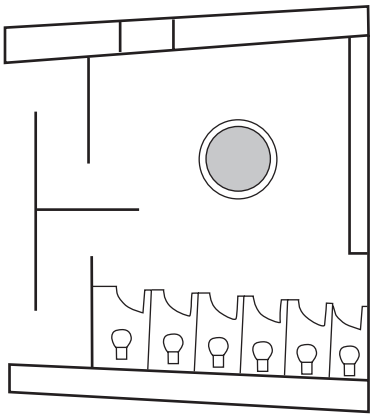
Layout Suggestions and Bowl Materials



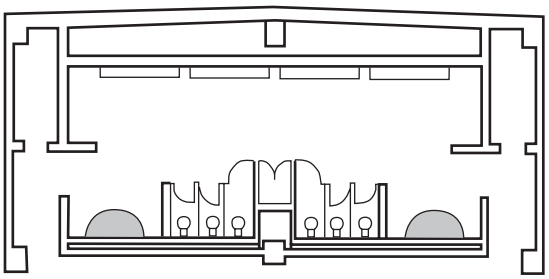
CORRIDOR LAYOUTS:
A corridor installation lets teachers supervise from the hallway, reducing potential vandalism. The dotted lines in the illustrations represent baffles that can be used to increase privacy without obscuring the supervisor's view.



WASHROOM LAYOUTS:
In most washrooms, circular washfountains are the best way to handle more people at once while saving space.



NARROW WASHROOM LAYOUTS:
In "narrow" washrooms where circular units may obstruct traffic flow, semi-circular or Multi-Fount washfountains along the wall are a better choice.



Bowl Materials: Application Suggestions

Bowl Material	Typical Applications	Best Choice When…
Precast Terrazzo: Portland cement with limestone chips and binder.	Historically used in plants and schools. Also popular in recreational facilities (especially Multi-Founts) and Barrier-Free applications.	Cost, vandal resistance and aesthetics are key considerations.
Bradstone: Molded reinforced thermosetting polyester resins.	Plants, stadiums and schools.	Cost and chemical resistance are key considerations.
Stainless Steel: Heavy gauge type 304 polished to a number 4 finish.	Multi-purpose environments such as plants, schools (especially shop areas) and some types of recreational areas.	Vandal resistance is key consideration.
Terreon: Solid surface material composed of resin and fillers.	Used in plants and schools. Popular in recreational facilities and Barrier-Free applications.	Cost, vandal resistance and aesthetics are key considerations.

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