

PRODUCT SURVEY RESULTS

Waterless Urinals

This product survey is an independent opinion poll-type survey conducted by ASPE and Plumbing Systems & Design. The survey has no connection to any manufacturer nor has any manufacturer commissioned, paid for, or sponsored it. The survey was conducted as an opinion poll. The results are intended to provide useful and independent information to plumbing engineers, designers, and contractors and to act in the capacity of peer-to-peer interaction and information sharing. The results are reported as simple statistics reflecting the answers of the survey respondents. The survey results stand alone as respondents' opinions and perceptions. No commentary has been provided nor have any conclusions been drawn from the data. The survey results are not intended to provide engineering, design, or specification guidance.

SURVEY METHODOLOGY

Blank surveys were sent to the presidents of 59 ASPE chapters representing approximately 6,500 members. Of the total membership, approximately 60 percent are plumbing engineers, designers, or contractors. The survey methodology provides for a self-limiting universe with a maximum expected return rate of 200-250 responses (the number of surveys returned for this inquiry exceeded the expected return rate).

This survey has not been conducted under vigorous research survey methodologies nor have the results been statistically analyzed in accordance to such methodologies. This opinion poll-type survey is extensively biased to those plumbing engineers/designers who were in attendance at a chapter meeting at the time the survey was handed out or to whom a chapter president may have asked to participate. **PSD**

Which of the following best describes your professional expertise?	
	% of Total
Plumbing engineer/designer	65.32%
Contractor	7.74%
Owner/president of a design firm	3.03%
Mechanical engineer/designer that does some plumbing design	13.80%
Facility Owner/Facility Maintenance	2.36%
No Response to this Question	7.74%

Of the following Waterless Urinal manufacturers, how often do you use their products?					
	Always use	Use a lot	Have used	Somewhat use	Never use
Duravit	0.00%	2.22%	1.11%	3.33%	93.33%
Falcon	5.61%	10.28%	18.69%	9.35%	56.07%
Sloan	13.91%	14.78%	29.57%	7.83%	33.91%
Waterless Co.	3.85%	12.50%	11.54%	10.58%	61.54%
ZeroFlush	1.08%	3.23%	3.23%	2.15%	90.32%
Zurn	6.00%	13.00%	15.00%	6.00%	60.00%
Other	0.00%	0.00%	1.83%	3.64%	94.55%

Other manufacturers specified: Coroma.

How knowledgeable are you with Waterless Urinals?				
Highly knowledgeable	Very knowledgeable	Knowledgeable	Somewhat knowledgeable	Not knowledgeable
11.31%	18.37%	39.22%	20.14%	10.95%

Do you intend to continue to engineer/design/specify/use Waterless Urinals?

Yes 29.00% No 71.00%

With which of the following Waterless Urinal manufacturers are you familiar?					
	Highly familiar	Very familiar	Familiar	Somewhat familiar	Not familiar
Duravit	1.01%	1.01%	5.37%	5.37%	87.25%
Falcon	9.36%	8.70%	13.04%	8.70%	60.20%
Sloan	14.33%	16.33%	28.33%	14.67%	26.33%
Waterless Co.	8.00%	9.67%	13.67%	10.00%	58.67%
Zero Flush	3.00%	3.67%	6.00%	11.33%	76.00%
Zern	7.33%	11.00%	23.00%	13.67%	45.00%
Other	1.67%	2.33%	2.67%	4.33%	89.00%

Other manufacturers specified: Kohler, Coroma.

If "NO" reasons written in for why not (duplicates and similar removed).

95% of work health care related, no big demand in hospitals; bad rep; clients are not interested; don't know enough information; if owner requested; if required; it was a problem to owner- odor-poor maint.; not in my line of work; not recommended; not required; odor problem; only if an owner insist; only if required; only if specifically asked by owner; owner had to replace; prefer to have water using the waste lines; problem with up keep; saves water but messy; smell poor drain lines; they are not sanitary; they smell bad!; we received negative feedback from owners.

Have you ever designed or used a waterless urinal in a building's plumbing design? Yes 31.00% No 69.00%

Have you ever had to replace Waterless Urinals?

Yes 6.67% No 93.33%

How would you rate your experience with Waterless Urinals?				
Highly pleased	Very pleased	Pleased	Somewhat pleased	Not pleased
1.68%	12.61%	36.97%	31.09%	17.65%

If "YES" What did you replace them with?		
	Yes	No
Another Waterless Urinal — Same Brand	0.33%	99.67%
Another Waterless Urinal — Different Brand	4.67%	95.33%
A flush type urinal	0.33%	99.67%



Of those respondents indicating that they had a personal viewpoint on the quality of Waterless Urinal products, they were asked how they would rate the quality of products for each of the following?

	Excellent	Good	Okay	Fair	Poor
Duravit	0.00%	12.50%	16.67%	20.83%	50.00%
Falcon	14.29%	16.67%	30.95%	14.29%	23.81%
Sloan	16.36%	27.27%	23.64%	18.18%	14.55%
Waterless Co.	11.63%	23.26%	20.39%	18.60%	25.58%
ZeroFlush	0.00%	20.69%	13.79%	20.69%	44.83%
Zurn	6.25%	31.25%	31.25%	0.00%	31.25%

Regardless of whether you do or do not use Waterless Urinals, what disadvantages do you see them having?

	Yes	No
Don't know anything about them	9.33%	90.67%
Don't like them	11.33%	88.67
Believe they are unnecessary	6.33%	93.67%
Don't think they work properly	9.67%	90.33%
Difficult to install properly	4.67%	95.33%
Just have never used them	12.33%	87.67%
Maintenance after installation	65.00%	35.00%
Not approved by code	16.00%	84.00%
They have odor issues	38.67%	61.33%

Other advantages written in (duplicates and similar removed): 1/8 gallon is a good alternative; assignment of cost of cartridge/liquid replacement build up in drain line; check out novi town-wont go into new roomstinks; cleaning - waste more water; cleaning training&supplies for cleaning; clients do not like them and will switch flush ur.; copper waste arms replaced with pvc; customers rarely want them; debris in bottom; drain clogging; hospital use people on med. very high odor; hygiene issues in schools; i don't see a disadvantage; if not maintained water becomes an issue; in healthcare, there is a stigma of infection cont; need to maintained properly; not built/ tested to standard; not entire sanitary; people will not clean them - disposal of cartridge; pollution from discarded cartridges; proper location in drain stream; require more attention when cleaning; sanitary issues after each use; sanitary issues-inspector has sanitation concerns; sanitation/ affect on drainage materials; smells; some cities require water to be pipe just in case.; splash back is an issue since no washdown; teeaching janitorial staff to maintain properly; they work well under heavy use; trap refills are costly, raw urine causes pipe rot; water urinals plug up waterless have to be worse.; worry bout mineral build up in waste line.

Regardless of whether you do or do not use Waterless Urinals, what advantages do you see them having ?

	Yes	No
Less expensive to install	31.00%	69.00%
Cost savings/less piping required	49.00%	51.00%
Easier to design/specify	14.00%	86.00%
Less building penetrations	19.67%	80.33%
Cost savings/no flush valves	57.67%	80.33%

Other disadvantages written in (duplicates and similar removed): applications where limited water supply; better for environment water usage, energy savings; cost of fixture is more than std. urinal!; cost saving/no water usage; don't think they will work; environment friendly; good for freezing areas (unheated) spaces; good for green building may qualify for leed point; good for park & rec areas where no water is available; hands free/ sanitation; have not found one yet!; I don't see any advantages; leed points for water savings; less than water used for green design; less water use; less water use gain leed points; less water/ sewer cost to owner; no drain; save water; saves on water bill for owner; saves the planet; there are no advantages they're not sanitary; think not an advantage, sooner or later will be replaced; think they have their place in achieving "green"; up front cost is lower; water conservation; water savings are substantial; water use savings works better in renovations.

