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HIGH-EFFICIENCY URINALS (HEUs) U.S. and CANADA November 16, 2011



What is a High-Efficiency Urinal?

The High Efficiency Urinal (HEU) has been a part of the North American plumbing fixture marketplace for close to 20 years. This long history includes both flushing and non-water urinals. It is only within the past 10 years, however, that the water utility and plumbing industries determined that it was time to adopt a definition of an HEU in order to avoid confusion.

The HEU is defined as a fixture that flushes at 0.5-gallons per flush (gpf) or 1.9-Litres per flush (Lpf) or less, a threshold that is 50 percent of the current U.S. national standard (maximum) mandated by the U.S. Energy Policy Act in 1992, which became effective in 1994. This 50 percent threshold serves as a metric for water authorities and municipalities designing more aggressive commercial plumbing fixture retrofit programs and, in many cases, establishes an additional performance tier for their financial incentives (e.g., rebate and voucher programs). Furthermore, it also serves as a "guidepost" for the various green building programs being developed and used in North America.

High-Efficiency Urinals in the North American Marketplace

Fixtures currently considered as qualifying for the HEU designation fall into several different design and flush volume categories. View the tables that follow, which are organized to display those categories and reflect the latest information obtained from the manufacturers and other sources. The flush volumes shown in the tables are as certified and/or as reported by the manufacturer. It is the responsibility of the reader to verify this information.

We urge readers to seek out performance and maintenance information from industry and other sources. We also strongly urge readers to perform a full life cycle cost analysis of purchase, installation, and maintenance before making a purchase decision. **DO NOT ASSUME** that all urinals (and their attached drainlines) experience the same cost of maintenance!

WaterSense High-Efficiency Urinals

Included in these tables is a column that identifies those fixtures have been reported as certified to the U.S. EPA's WaterSense specification for high-efficiency flushing urinals. Information about the WaterSense labeling program for high-efficiency flushing urinals may be found at: <http://www.epa.gov/watersense/products/urinals.html>

The WaterSense urinal specification may be found at: http://www.epa.gov/watersense/docs/urinal_finalspec508.pdf

The EPA's listing of WaterSense-certified flushing urinals may be searched here:
http://www.epa.gov/watersense/product_search.html

This MaP listing of HEUs is periodically updated by the authors. The latest version may always be accessed at www.map-testing.com

Manufacturers are urged to contact the authors to add new high-efficiency urinal products to this list when those products become available.

Table 1. Flushing High-Efficiency Urinal Fixtures (0.5-gallons per flush – 1.9 litres per flush)

Manufacturer	Model Name	Model Number	Mat'l	WaterSense compliant urinal?	Integral Flush Valve Sensor?	
American Standard	Selectronic Innsbrook	6520.001	VC	No	Yes (battery)	
	Selectronic Innsbrook	6520.003	VC	No	Yes (hard wired AC)	
	Allbrook Flowise 0.5	6550.005 (top spud)	VC	Yes	No	
	Washbrook Flowise 0.5	6590.005 (top spud)	VC	Yes	No	
	Washbrook Flowise 0.5	6590.001 (top spud)	VC	No	No	
	Washbrook Flowise 0.5	6515.005 (back spud)	VC	Yes	No	
	Decorative	6043.005 (back spud)	VC	Yes	No	
	Decorative	6042.005 (top spud)	VC	Yes	No	
	None	D7120.XX	VC	Yes		
	None	D7399.XX	VC	Yes		
http://www.americanstandard-us.com/bathroom-products/urinals/						
Briggs	Hilton	7521 (top spud)	VC	Yes	No	
	Lawton	7553 (top spud)	VC	Yes	No	
http://www.briggspumbing.com/products/commercial/urinal						
Caroma	Cube Ultra Electronic	678668 (combination): comprised of 686069 urinal fixture (rear spud) equipped with Caroma Electronic Flushometer Valve 687282		VC	Yes	Yes
http://www.caromausa.com/						
Contrac	Calder	4810BEX (top spud)	VC	Yes	No	
	Calder	4810BEY (back spud)	VC	Yes	No	
	Carlton	4810BFX (top spud)	VC	Yes	No	
	Carlo	4810BHX (top spud)	VC	Yes	No	
	Carlo	4810BHY (back spud)	VC	Yes	No	
	Canata	4810BMX (top spud)	VC	Yes	No	
Crane	Eco Richland	7120 (top spud)	VC	Yes		
	Eco Crawford	7399	VC	Yes		
http://www.cranepumbing.com/searchResults.aspx?d=4&t=30						
Duravit	Architec	081836	VC	Yes	No	
	Architec	082036	VC	Yes	No	
	Caro	083630	VC	F/V - Yes	Yes	
	Philippe Starck 1	083432	VC	F/V - Yes	Yes	
	Philippe Starck 1	083532	VC	F/V - Yes	Yes	
	Vero	280132	VC	F/V - Yes	Yes	
	Vero	280032	VC	F/V - Yes	Yes	
www.duravit.us/products/series/architec-useo6ptmab.html						
Foremost	None	C4810BEX (top spud)	VC	Yes	No	
	None	C4810BEY (back spud)	VC	Yes	No	
	None	C4810BFX (top spud)	VC	Yes	No	
	None	C4810BHX (top spud)	VC	Yes	No	
	None	C4810BHY (back spud)	VC	Yes	No	
	None	C4810BMX (top spud)	VC	Yes	No	
	Rondo	UR-490-Y	VC	Yes	No	
	www.foremostgroups.com/K&B/index.html					
Gerber	North Point	HE-27-720 (top spud)	VC	No	No	
	North Point	HE-27-730 (top spud)	VC	No	No	
	North Point	HE-27-725 (back spud)	VC	No	No	
	North Point	HE-27-735 (back spud)	VC	No	No	
http://www.gerberonline.com/shop/searchproduct.aspx?pi=3&kw=North+Point						
Kohler	Bardon	K-4915	VC	No	Yes	
	Bardon	K-4960-ET (top spud)	VC	Yes	No	
	Bardon	K-4960-ER (rear spud)	VC	Yes	No	
	Dexter	K-5016-ER (rear spud)	VC	Yes	No	
	Dexter	K-5016-ET (top spud)	VC	Yes	No	
	Darfield	K-5024-T (top spud)	VC	No	No	
	www.us.kohler.com/onlinecatalog/product_result.jsp?module=Commercial%20Urinals&category=30&subcategory=24					
ProFlo (by Ferguson)	None	PF1805 (top spud, wash out)	VC	Yes	No	
	None	PF1815 (top spud, siphon jet)	VC	Yes	No	
	None	PF1825 (top spud, wash out)	VC	No	No	
http://www.proflo.com/proflo/showRecordList.do?Ntt=Urinal						
Seasons (HD Supply)	None	SE10412 (top spud)	VC	Yes	No	
	None	SE10413 (top spud)	VC	Yes	No	
	None	SE10414 (top spud)	VC	Yes	No	
Sloan Valve	Efficiency Series	SU-1005A (top spud)	VC	Yes	No	
	Efficiency Series	SU-1015A (rear spud)	VC	Yes	No	
	Efficiency Series	WEUS 1005.1001-0.5*	VC	No	No (manual)	
	Efficiency Series	WEUS 1005.1201-0.5 SOLIS*	VC	No	Yes (electronic sensor)	
	Efficiency Series	WEUS 1005.1401-0.5 ECOS*	VC	No	Yes (electronic sensor)	
	Efficiency Series	SU-1205A (top spud)	VC	Yes	No	
	Efficiency Series	SU-1215A (rear spud)	VC	Yes	No	
www.sloanvalve.com/						
*-urinal fixture coupled with flush valve						

Table 1. (cont'd) Flushing High-Efficiency Urinal Fixtures (0.5-gallons per flush – 1.9 litres per flush)

Manufacturer	Model Name	Model Number	Mat'l	WaterSense compliant urinal?	Integral Flush Valve Sensor?
Toto	None	UT104E (top spud)	VC	No	No
	None	UT104EV (rear spud)	VC	No	No
	None	UT447E (top spud)	VC	No	No
	None	UT447EV (rear spud)	VC	No	No
www.totousa.com/prodcatalog.asp?cid=18					
Tynan	None	7101 (top spud, wash out)	VC	Yes	No
	None	7101PT (top spud, wash out)	VC	Yes	No
	None	7100 (top spud, siphon jet)	VC	Yes	No
Vortens Lamosa	Austral Zero5	3601 (top spud)	VC	Yes	No
	Verona Zero5	3621 (top spud)	VC	Yes	No
www.vortens.com/productlist.php?cat=22					
Zurn	EcoVantage	Z5751.196 (top spud)	VC	No	No (manual)
	EcoVantage	Z5751.219 (top spud)	VC	No	No (manual)
	EcoVantage	Z5751.201 (top spud)	VC	No	Yes
	EcoVantage	Z5751.245 (top spud)	VC	No	Yes
	EcoVantage	Z5752.245 (rear spud)	VC	No	Yes
	EcoVantage	Z5752.245 (rear spud)	VC	No	Yes
www.zurn.com/pages/catalog.asp?ProductGroupID=150&OperationID=19					

Table 2. Flushing High-Efficiency Urinal Fixtures (0.25 gallons per flush – 0.9 litres per flush)

Manufacturer/ Brand	Model Name	Model Number	Mat'l	WaterSense compliant urinal?	Integral Flush Valve Sensor?
Sloan Valve	Efficiency Series	WEUS 1002.1001-0.25 (top spud)	VC	No	No (manual)
	Efficiency Series	WEUS 1002.1201-0.25 SOLIS (top spud)	VC	No	Yes
	Efficiency Series	WEUS 1002.1301-0.25 ESS (top spud)	VC	No	Yes
	Efficiency Series	WEUS 1002.1302-0.25 HWS (top spud)	VC	No	Yes
	Efficiency Series	WEUS 1002.1401-0.25 ECOS (top spud)	VC	No	Yes
	Efficiency Series	WEUS 1002-1402-0.25 SMO (top spud)	VC	No	Yes
	Efficiency Series	WEUS 1002.1403-0.25-SMOOTH (top spud)	VC	No	Yes
	Efficiency Series	SU-1002A (top spud)	VC	Yes	No
	Efficiency Series	SU-1012A (rear spud)	VC	Yes	No
	Efficiency Series	SU-1202A (top spud)	VC	Yes	No
	Efficiency Series	SU-1212A (rear spud)	VC	Yes	No
*-urinal fixture with flush valve www.sloanvalve.com/					
Vitra	EverGreen	5321-XXX-0198 (top spud)	VC	No	No (manual available)
	EverGreen	5321-XXX-0199 (rear spud)	VC	No	No (manual available)
depe.vitra.com.tr/VCT/CANLI/06/PDF/VUSA_5321_T.PDF					

Table 3. Flushing High-Efficiency Urinal Fixtures (1-pint/0.13 gal per flush – 0.5 litres per flush)

Manufacturer/ Brand	Model Name	Model Number	Mat'l	WaterSense compliant urinal?	Integral Flush Valve Sensor?
American Standard	Washbrook Flowise 0.125	6515.125 (back spud)	VC	Yes	No
	Washbrook Flowise 0.125	6515.005 (back spud)	VC	Yes	No
	Washbrook Flowise 0.125 (with Am Standard 6063.013 WaterSense flushometer valve)	6590.525 (back spud)	VC	F/V -Yes	Yes (battery)
	Washbrook Flowise 0.125	6590.125 (top spud)	VC	Yes	No
	Washbrook Flowise 0.125	6590.001 (top spud)	VC	No	No
http://www.americanstandard-us.com/bathroom-products/urinals/					
Caroma	Cube 3 Ultra	678650 (rear spud) (with Electronic Flushometer Valve 687278)	VC	No	Yes (in trapway)
http://www.caromausa.com/Cube3-Ultra					
Kohler	Bardon	K-4904-ER (rear spud)	VC	Yes	No
	Bardon	K-4904-ET (top spud)	VC	Yes	No
search.us.kohler.com/?q=K-4904&x=14&y=3					
Mansfield	Brevity	421 (top spud)	VC	No	No
http://www.mansfieldplumbing.com/v3/pc-template1.jsp#					

Table 3. (cont'd) Flushing High-Efficiency Urinal Fixtures (1-pint/0.13 gal per flush – 0.5 litres per flush)

Manufacturer/ Brand	Model Name	Model Number	Mat'l	WaterSense compliant urinal?	Integral Flush Valve Sensor?
Sloan Valve	Efficiency Series	WEUS 1010.1011-0.13 (rear spud)*	VC	No	No (manual)
	Efficiency Series	WEUS 1000.1001-0.13 (top spud)*	VC	No	No (manual)
	Efficiency Series	WEUS 1010.1311-0.13 ESS (top spud)*	VC	No	Yes
	Efficiency Series	WEUS 1000.1201-0.13 SOLIS (top spud)*	VC	No	Yes
	Efficiency Series	WEUS 1000.1301-0.13 ESS (top spud)*	VC	No	Yes
	Efficiency Series	WEUS 1000.1302-0.13 HWS (top spud)*	VC	No	Yes
	Efficiency Series	WEUS 1000.1303-0.13 ESS OR (top spud)*	VC	No	Yes
	Efficiency Series	WEUS 1000.1401-0.13 ECOS (top spud)*	VC	No	Yes
	Efficiency Series	WEUS 1000.1411-0.13 HW ECOS C (top spud)*	VC	No	Yes
	Efficiency Series	WEUS 1000.1402-0.13 SMO (top spud)*	VC	No	Yes
	Efficiency Series	WEUS 1000.1403-0.13 SMOOTH (top spud)*	VC	No	Yes
	Efficiency Series	SU-1000A (top spud)	VC	Yes	No
	Efficiency Series	SU-1010A (rear spud)	VC	Yes	No
	Efficiency Series	SU-1200A (top spud)	VC	Yes	No
	Efficiency Series	SU-1210A (rear spud)	VC	Yes	No
www.sloanvalve.com/		*-urinal fixture coupled with flush valve			
Vortens	Austral Zero5	3601 (top spud)	VC	Yes	No
Lamosa	Verona Zero5	3621 (top spud)	VC	Yes	No
www.vortens.com/productlist.php?cat=22					
Zurn	The Pint	Z5798.205 (top spud)	VC	F/V Yes (fixture certified with 5 different certified Zurn flush valves)	Yes
	The Pint	Z5798.206 (top spud)	VC		Yes
	The Pint	Z5798.207 (top spud)	VC		No (manual)
	The Pint	Z5798.235 (top spud)	VC		Yes
	The Pint	Z5798.234 (top spud)	VC		Yes
	The Pint	Z5799 (rear spud)	VC	F/V - Yes	Yes
	Small Pint	Z5738.205 (top spud)	VC	F/V Yes (fixture certified with 5 different certified Zurn flush valves)	Yes
	Small Pint	Z5738.206 (top spud)	VC		Yes
	Small Pint	Z5738.207 (top spud)	VC		No (manual)
	Small Pint	Z5738.235 (top spud)	VC		Yes
	Small Pint	Z5738.234 (top spud)	VC		Yes
	Retrofit Pint	Z5758.205 (top spud)	VC	F/V Yes (fixture certified with 5 different certified Zurn flush valves)	Yes
	Retrofit Pint	Z5758.206 (top spud)	VC		Yes
	Retrofit Pint	Z5758.207 (top spud)	VC		No (manual)
	Retrofit Pint	Z5758.235 (top spud)	VC		Yes
	Retrofit Pint	Z5758.234 (top spud)	VC		Yes
	Retrofit Pint	Z5759 (rear spud)	VC	F/V - Yes	Yes
	Full Stall Pint	Z5792.205 (top spud)	VC	No	Yes
	Full Stall Pint	Z5792.206 (top spud)	VC	No	Yes
	Full Stall Pint	Z5792.207 (top spud)	VC	No	No (manual)
	Full Stall Pint	Z5792.235 (top spud)	VC	No	Yes
	Full Stall Pint	Z5792.234 (top spud)	VC	No	Yes
	Nano Pint	Z5708.205 (top spud)	VC	F/V Yes (fixture certified with 5 different certified Zurn flush valves)	Yes
	Nano Pint	Z5708.206 (top spud)	VC		Yes
	Nano Pint	Z5708.207 (top spud)	VC		No (manual)
Nano Pint	Z5708.235 (top spud)	VC	Yes		
Nano Pint	Z5708.234 (top spud)	VC	Yes		
www.zurn.com/pages/catalog.asp?ProductGroupID=150&OperationID=19					

Table 4. WaterSense-Compliant High-Efficiency Flushometer Valves (for Urinals)

Manufacturer/Brand	Model Name	Model Number	Flush Volume
American Standard	Selectronic	6061.201	0.125 gpf – 0.5 Lpf
	Selectronic	6061.301	0.125 gpf – 0.5 Lpf
	Selectronic	6061.401	0.125 gpf – 0.5 Lpf
	Selectronic	6061.501	0.125 gpf – 0.5 Lpf
	Selectronic	6062.201	0.125 gpf – 0.5 Lpf
	Selectronic	6062.301	0.125 gpf – 0.5 Lpf
	Selectronic	6062.401	0.125 gpf – 0.5 Lpf
	Selectronic	6062.501	0.125 gpf – 0.5 Lpf
	Selectronic	6063.013	0.125 gpf – 0.5 Lpf
	Selectronic	6063.201	0.125 gpf – 0.5 Lpf
	Selectronic	6063.301	0.125 gpf – 0.5 Lpf
	Selectronic	6063.401	0.125 gpf – 0.5 Lpf
	Selectronic	6063.501	0.125 gpf – 0.5 Lpf
	Selectronic	6063.513	0.125 gpf – 0.5 Lpf
	Selectronic	6061.205	0.5 gpf – 1.9 Lpf
	Selectronic	6061.305	0.5 gpf – 1.9 Lpf
	Selectronic	6061.405	0.5 gpf – 1.9 Lpf
	Selectronic	6061.505	0.5 gpf – 1.9 Lpf
	Selectronic	6062.205	0.5 gpf – 1.9 Lpf
	Selectronic	6062.305	0.5 gpf – 1.9 Lpf
	Selectronic	6062.405	0.5 gpf – 1.9 Lpf
	Selectronic	6062.505	0.5 gpf – 1.9 Lpf
	Selectronic	6063.051	0.5 gpf – 1.9 Lpf
	Selectronic	6063.205	0.5 gpf – 1.9 Lpf
	Selectronic	6063.305	0.5 gpf – 1.9 Lpf
	Selectronic	6063.405	0.5 gpf – 1.9 Lpf
Selectronic	6063.515	0.5 gpf – 1.9 Lpf	
Selectronic	7093.051	0.5 gpf – 1.9 Lpf	
http://www.americanstandard-us.com/searchResults.aspx?d=1&t=29&a=263			
Caroma	Electronic Flushometer Valve (for use with 686069 urinal fixture)	687282	0.125 gpf – 0.5 Lpf
		http://www.caromausa.com/Cube3-Ultra	
Crane	None	6113.051	0.5 gpf – 1.9 Lpf
http://www.cranepumbing.com/searchResults.aspx?d=4&t=30			
Kohler	Touchless	K-10949	0.125 gpf – 0.5 Lpf
	Touchless	K-10958	0.5 gpf – 1.9 Lpf
	Wave	K-10668	0.125 gpf – 0.5 Lpf
	Wave	K-10675	0.5 gpf – 1.9 Lpf
http://www.us.kohler.com/onlinecatalog/product_result_gen.jsp?category=20&dynamic=v&attribute=k6d_type&filterVal=Manual%20Urinal&sectionVal=Flushometers			
Zurn	AquaVantage	Z6003AV-ULF	0.125 gpf – 0.5 Lpf
	AquaVantage	ZER6003AV-ULF	0.125 gpf – 0.5 Lpf
	AquaSense	ZEMS6003AV-ULF	0.125 gpf – 0.5 Lpf
	AquaSense	ZEMS6003AV-ULF-IS	0.125 gpf – 0.5 Lpf
	AquaVantage	ZEG6003AV	0.125 gpf – 0.5 Lpf
	EcoVantage	ZEG6003EV	0.125 gpf – 0.5 Lpf
http://www.zurn.com/pages/catalog.asp?ProductGroupID=184&ProductName=Z6003AV%2DULF#p5202			

Table 5. Non-Water (Waterless) High-Efficiency Urinal Fixtures¹

Manufacturer/ Brand	Model Name	Model Number	Trap Design ²	Material
Acorn	None	None	Self sealing waste valve (duckbill) ²	SS
American Standard	FloWise Flush Free	6150.100	Liquid seal	VC
	FloWise Flush Free	6154.100	Liquid seal	VC
	FloWise Flush Free	6155.100	Liquid seal	VC
http://www.americanstandard-us.com/bathroom-products/urinals/				
Caroma	H2 Zero	678500	Self sealing waste valve ² supplemented with liquid seal	VC
Duravit	Dry Urinal	084436	Liquid seal	VC
www.duravit.com/duravit/html/default/useo-6q3rty.com.html?category=urinals&product=084436&nodeId=93992				
Falcon	WaterFree	F-1000	Liquid seal	VC
	WaterFree	F-2000	Liquid seal	VC
	WaterFree	F-4000	Liquid seal	VC
	WaterFree	F-5000	Liquid seal	VC
	WaterFree	F-7000	Liquid seal	VC
	WaterFree	F-9000SS	Liquid seal	SS
www.falconwaterfree.com/products/us.htm				
Rubbermaid Commercial	ecoUrinal	751220	Liquid seal	VC
http://www.rubbermaidcommercial.com/rcp/products/detail.jsp?rcpNum=751220				
Kohler	Steward	K-4917	Liquid seal	VC
	Steward	K-4918	Liquid seal	VC
	Steward	K-4919	Liquid seal	VC
search.us.kohler.com/?q=steward				
Sloan	WaterFree	WES-1000	Liquid seal	VC
	WaterFree	WES-2000	Liquid seal	VC
	WaterFree	WES-4000	Liquid seal	VC
	WaterFree	WES-5000	Liquid seal	VC
www.sloanvalve.com/products_ENU_HTML.htm				
Urimat	Eco	15.001	Liquid seal	Composite
	Ecoplus	16.001	Liquid seal	Composite
	Eco Ceramic	12.001	Liquid seal	VC
http://www.urimat.com/				
Waterless[®]	Anza	2005	Liquid seal	Composite
	Kalahari	2003	Liquid seal	Composite
	Kalahari	2003B (bottom drain)	Liquid seal	Composite
	Sonora	2004	Liquid seal	Composite
	Sonora	2004B (bottom drain)	Liquid seal	Composite
	Yukon	2101	Liquid seal	VC
	Sierra	2102	Liquid seal	VC
	Borrego	2103	Liquid seal	VC
	Baja	2104	Liquid seal	VC
	Del Mar	2901 (shipboard)	Liquid seal	Composite
	Del Casa	2902 (home or space saving)	Liquid seal	Composite
	Santa Fe	2903	Liquid seal	Composite
www.waterless.com/				
Zero Flush	None	ZF-101	Liquid seal	VC
	None	ZF-201	Liquid seal	VC
	None	ZF-301	Liquid seal	SS
	None	ZF-401	Liquid seal	VC
	None	ZF-501	Liquid seal	VC
	None	ZFT-0405 (trough urinal)	Liquid seal	SS
www.zeroflush.com/				
Zurn	Ecovantage	Z5795	Liquid seal	VC
	Ecovantage	Z5796	Liquid seal	VC
www.zurn.com/pages/catalog.asp?ProductGroupID=150&OperationID=19				

Material Key:

VC – Vitreous China
SS – Stainless Steel

Notes on WaterSense Certification:

1 - The flushing urinal fixtures noted as WaterSense compliant in Tables 1, 2, and 3 have been fully tested and certified by an independent, accredited laboratory as meeting the specification's requirements, after which they are listed by an approved Certifying Body. However, in some cases, the necessary certification paperwork has not yet been submitted to the WaterSense program and, as a result, these fixtures may not yet appear on the WaterSense website.

2 – IMPORTANT: The urinal listings shown as WaterSense-compliant in Tables 1, 2, and 3 are for the certified urinal fixture ONLY. Except where noted as a fixture/valve ("F/V") combination, the associated flush valves are NOT included as WaterSense certified.

3 - Flush valves are separately tested and certified to the requirements of the WaterSense specification. These certified valves are listed in Table 4.

Notes on Non-Water Urinals:

1 – Some North American jurisdictions and some plumbing code provisions do not permit the installation of non-water urinals, even though those non-water urinals with a liquid seal are covered within two ANSI standards: ASME A112.19.19-2006 for vitreous china non-water urinal fixtures and IAPMO Z124.9-2004 for plastic urinal fixtures.

2 – Some jurisdictions do not allow the installation of urinals with self-sealing waterless waste valves (non-liquid or mechanical seals, sometimes termed "duckbills"). These urinals are listed by IAPMO as qualifying to "IAPMO Guide Criteria for Waterless Urinals, IGC 161-2006a" but may not be permitted by local codes and/or national standards.

It is very important that the specifier, designer, and/or purchaser first check with the local jurisdictional authority to determine if and where such fixtures are permitted.

General Notes for High-Efficiency Urinals:

(a) All flushing HEUs must meet the very same waste removal performance requirements as all other flushing urinals sold in North America. All urinals, regardless of flush volume, may experience problems when installed in commercial building locations with degraded, aging, or poorly installed drainline systems, e.g., insufficient drainline slope, dips and sags, pre-existing buildup of solids, etc. In most cases, additional sources of wastewater upstream of the urinal fixture may help to reduce or prevent solids build-up in the drainline.

(b) The information contained herein was gathered from sources deemed reliable and is believed to be correct at the time of posting or publication. However, the authors cannot guarantee that all of the information is either correct or current. The authors take no responsibility for the subsequent communication or use of the information presented herein. Therefore, readers are strongly encouraged to perform their own research into HEUs before making specifying or purchasing decisions.

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