



Draft High-Efficiency Flushing Urinals Specification

Public Meeting
February 5, 2009



Meeting Agenda

- Overview of WaterSense
- Draft High-Efficiency Flushing Urinal Specification
 - Scope
 - Water efficiency criteria
 - Performance criteria
- Certification and Labeling
- Next Steps



What Is WaterSense?

**A partnership program
sponsored by the U.S. EPA**

Promotes the value of water and helps Americans make smart decisions regarding water use and water-using products.

Aims to increase the adoption of water-efficient products and services by consumers and organizations.



WaterSense Product Evaluation Factors



WaterSense uses the following factors in determining which products to label. Products must:

- Offer equivalent or superior performance.
- Be about 20 percent more water-efficient than conventional models.
- Realize water savings on a national level.
- Provide measurable results.
- Achieve water efficiency through several technology options.
- Be effectively differentiated by the WaterSense label.
- Be independently certified.



Background

- Goals for WaterSense Labeled Flushing Urinals.
 - Ensure sustainable, efficient water use.
 - Ensure continued user satisfaction.
- Performance testing requirements for fixtures based on ASME A112.19.2 and IAPMO Z124.9.
 - Reduced maximum flush volume.
- Performance testing requirements for pressurized flushing devices (flushometer valves) based on ASSE #1037.
 - Additional valve requirements to ensure long-term efficiency and performance.



Scope and Objective

- Specification establishes criteria for high-efficiency flushing urinals.
 - Applies to urinal fixtures that use water to convey waste through a trap seal into a gravity drainage system,

And

- Pressurized flushing devices that deliver water to urinal fixtures.



Scope and Objective

- Specification does not apply to:
 - Non-water urinals
 - Different design, components, and operation.
 - Different set of performance standards.
 - No basis to improve water efficiency or performance.
 - Composting urinals
 - Part of a non-plumbed, self-contained engineered system with different design and performance requirements.
 - No basis to improve water efficiency or performance.
 - Retrofit or aftermarket devices or systems
 - Intent of specification is to label only complete, fully functioning fixtures and pressurized flushing devices.



Water Efficiency Criteria

- Fixture or pressurized flushing device must meet ASME A112.19.2, IAPMO Z124.9, or ASSE #1037.
- Maximum flush volume must not exceed 0.5 gpf.
 - Represents a 50% reduction in maximum flush volume.
 - Is consistent with widely accepted definition of HEU.
 - Is currently available in many makes and models.



Performance Criteria— Fixtures

- To qualify for the WaterSense label, high-efficiency flushing urinal fixtures must:
 - Meet all applicable performance requirements of ASME A112.19.2 (vitreous china) or IAPMO Z124.9 (plastic)
 - Be tested with a pressurized flushing device with the same rated flush volume that meets the other requirements of the specification.



Performance Criteria—Valves

- To qualify for the WaterSense label, high-efficiency pressurized flushing devices must:
 - Meet all applicable performance requirements of ASSE #1037.
 - Not exceed the 0.5 gpf maximum flush volume.
- Also must:
 - Have a non-hold-open actuator.
 - Be non-adjustable as to maximum flush volume.
 - Not be packaged, marked, or provided with instructions directing the user to an alternative flush volume setting.
 - Not contain interchangeable parts that would allow the flush volume to be increased above the maximum.



Questions and Comments

- Draft High-Efficiency Flushing Urinal Specification
 - Scope, water efficiency, or performance criteria
- Supporting Statement
- Other issues, comments, or concerns



Product Certification and Labeling

- Fixture and pressurized flushing device may be labeled as:
 - A complete system.
 - Separate parts.
- If labeled separately, must clearly indicate on product documentation that the fixture/valve must be used with a corresponding WaterSense labeled valve or fixture of the same rated flush volume.



Product Certification and Labeling

- All products must be certified by an EPA licensed product certifying body (LCB).
- Manufacturers apply to an approved LCB of choice.
 - Approved list of LCBs will be posted on WaterSense Web site with the release of the final specification.
- LCB certifies product in accordance with WaterSense specification.
- LCB authorizes manufacturer to use WaterSense label.
 - Provides manufacturer with graphic artwork of label.
- LCB conducts periodic surveillance.
 - Factory visits.
 - Product retesting.
 - Label policing.



Questions and Comments

- Certification and labeling
- Other issues, comments, or concerns



Next Steps

- Submit written comments to watersense-urinals@erg.com by March 9.
- EPA will make public the comments received during the comment period.
- Final specification issued after evaluation and resolution of public comments.
- Anticipated effective date: mid-2009.



More Information



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