



## Water Conservation Plumbing Fixture: A Waterless Urinal

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### BACKGROUND

Under the Federal Energy Management Improvement Act of 1988, and Executive Order 12902 of 1994, all Federal facilities are directed to reduce the amount of energy and water they use. Federal facilities are also mandated to install and use energy and water conservation devices whenever possible.

### WATERLESS URINAL

The Waterless No Flush™ Urinal, made by the Waterless Company, is such a water conservation plumbing fixture.

EcoTrap® Principle:

1. Urine flows down into the EcoTrap® drain insert.
2. The urine passes through a floating layer of BlueSeal®, a low specific gravity, hydrophobic liquid, which forms a barrier that prevents urine and sewer odors from escaping into the rest room.
3. Urine under the barrier layer overflows into the central tube and runs down to the conventional drain line.

The Waterless urinal has no moving parts, and uses no water. The fixture is designed to be installed on a sewer system, but will work on a vault or compost toilet system as well.



Figure 1. Waterless No-Flush™ Urinal

This urinal is a low maintenance fixture. It has no valves or water connections to leak, repair, or replace. Normal maintenance consists of routine cleaning, and periodically (depending on usage) pouring 3 ounces of BlueSeal® into the urinal. The EcoTrap® drain insert collects sediments and is replaced as needed, generally two or three times a year. A special tool is used to remove the drain insert. All maintenance and replacement parts are available through GSA.



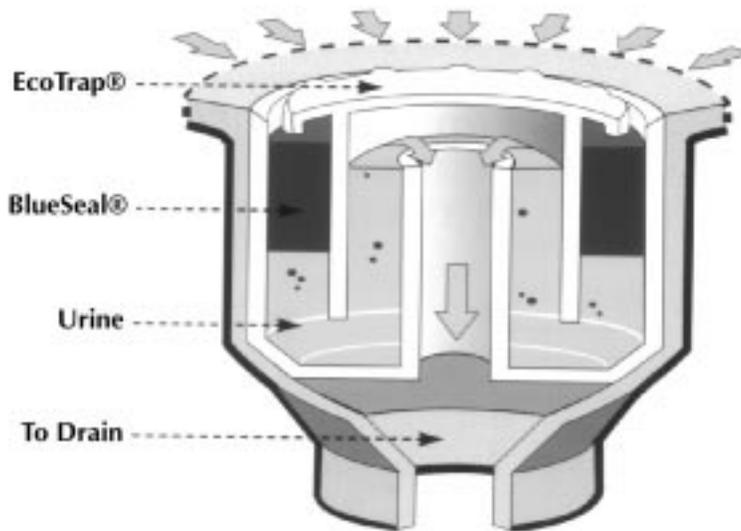


Figure 2. EcoTrap® Cross-section

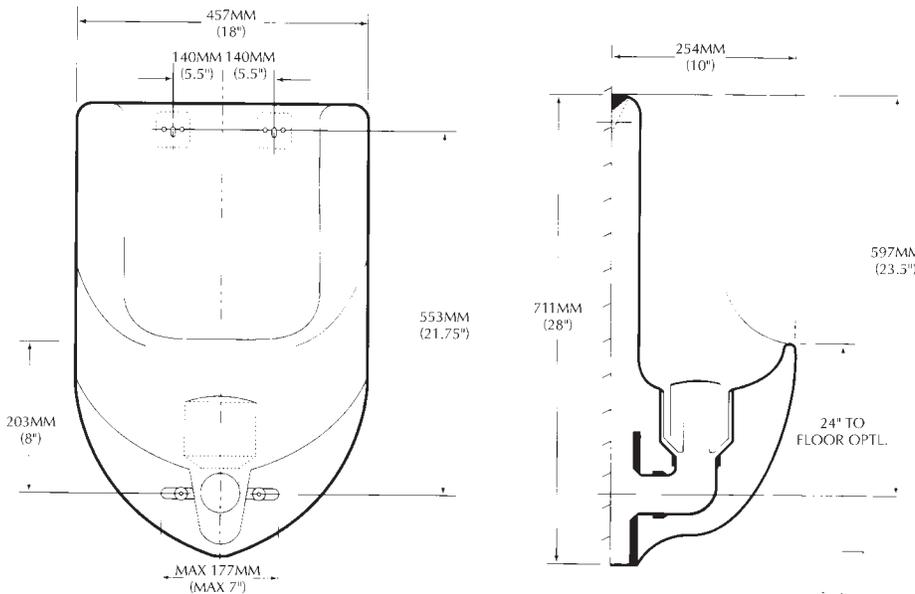


Figure 3. Dimensions

**KALAHARI™**

Fiberglass, Reinforced  
 Wall Hung, One Piece Shell  
 Weight 18 Lbs. (Approx.)  
 Connects to Standard 2" Waste Line  
 Color Sanitary White  
 Standards ANSI Z124.9  
 Listing: IAPMO/UPC®, CSA®  
 Warranty 3 Year Limited

The urinal comes in standard white, and is made of reinforced fiberglass. It meets ANSI Z124.9 specifications for plastic fixtures, and is accepted by the Uniform Plumbing Code (UPC).

Waterless urinals install on the wall the same way flush urinals do. In a retrofit situation, if the existing rough-in is 16" or lower, it will be a straight exchange. If the rough-in is higher than 16", the drain pipe must be cut to install it on existing plumbing, and still meet the 17" rim height specified in the Americans With Disabilities Act (ADA) and Uniform Federal Accessibility Standards (UFAS).

This urinal has been installed in several high use public areas since 1992. A phone check was made to verify the manufacturers claims of vandal resistance and low maintenance. All of the operations and maintenance people that were contacted were very pleased with the Waterless urinal.

### **AVAILABILITY**

The Waterless No-Flush™ Urinal is available through GSA Contract, Contract No. GSO7F77190. The price of this urinal is competitive with conventional urinals, and generally less than low flow fixtures. For more information, contact the contract specialist at: Phone (817) 334-8377. Product information and specifications are available from:

Waterless Company  
1549 Idlewood Road  
Glendale, CA 91202

Phone (800) 969-6364  
FAX (818) 246-6504

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444 E. Bonita Ave.  
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