

# THE WATERLESS ADVANTAGE™

Since 1991



***NO-FLUSH™***

***NO-TOUCH™***

***URINALS***

- SAVES WATER
- SAVES SEWER & MAINTENANCE CHARGES
- IMPROVES HYGIENE



***Saving Global Water Resources Since 1991***

**Waterless Co. <sup>L.L.C.</sup> • Del Mar, California**  
**1-888-NOFLUSH • [www.waterless.com](http://www.waterless.com)**

## Advantages

- Waterless
- Odorless
- Sanitary
- Touch- Free
- No Flushometer
- No Valve Repairs
- Reduces Vandalism
- No Pressure Requirements
- No Flange Exchanges
- No Overflows
- No Deodorizers
- Upgrades Facility/Modern Design
- Minimizes Sewer Line Encrustations
- Minimizes Waste Volume

## Applications

- Institutional
- Commercial
- Industrial
- Military
- Airports
- Parks, Rest Stops
- Schools, Colleges
- Sports Facilities
- Recreational Facilities
- Portable Applications
- All Maritime Applications
- Trains/Buses

## No-Flush™ Urinals Provide...

**Total Water Conservation** as they function on gravity flow and use absolutely no water. No-Flush™ urinals resemble conventional wall-hung fixtures, but **do not require a water supply or flush valve**. They connect to standard 2" drain lines. WATERLESS No-Flush™ urinals are easily retrofitted in existing rest room installations.

**Elimination of Urinal Odors** because urine is isolated from the rest room atmosphere. The EcoTrap®, a special drain insert, contains a layer of BlueSea® liquid that floats on top of the urine in the trap and forms a barrier against sewer vapor escape. This EcoTrap® barrier is **more sanitary** than the pool of diluted urine that seals the conventional urinal drain.

**Better Hygiene** because WATERLESS urinals are both dry and flushless. Bacteria require water to live. **Dry surfaces are hostile to bacteria.** Flushing fixtures are known to spread bacterial aerosols, which then seed nearby wet and damp spots to form new growths. Hygiene is thereby greatly improved by installing No-Flush™ urinals. Additionally, the No-Touch™ feature is accomplished with NO flushometer.

**Reduced Maintenance** from flush valve repairs, encrustations, plugged drains, overflows and vandalism. **There are no moving parts!** Custodial maintenance is similar to or less than conventionally flushed fixtures.

**Drastic Cost Savings** by eliminating water and sewer charges. Installation costs are generally less than for conventional fixtures. **Payback periods for No-Flush™ retrofits are usually one to three years.**

**Participation in Public Incentive Programs** using rebates and vouchers. Current programs utilize WATERLESS No-Flush™ urinals to **conserve water supplies, to lower sewer plant loadings and to mitigate new building construction in situations with restricted capacities or moratoriums.**



Model #2003 Kalahari™  
18"W x 28"L x 10" D

*Recipient of U.S. Department  
of Interior Water  
Conservation Award 1995*

*Thousands installed since 1991 in  
commercial, institutional  
and military facilities*



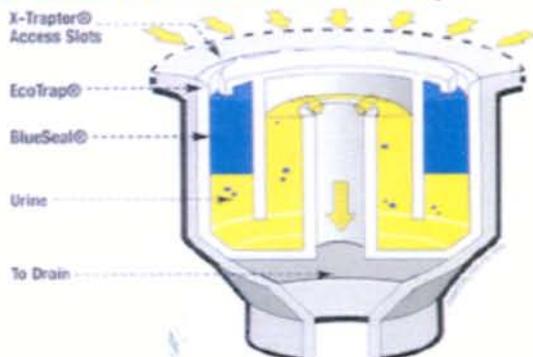
Model #2004 Sonora™  
18"W x 28"L x 14"D

**SAVES WATER • SEWER • MAINTENANCE CHARGES**

## EcoTrap® Principle

1. Urine flows down into the patented vertical **EcoTrap®** drain insert.
2. In the **EcoTrap®** the urine passes through a floating layer of **BlueSeal®** liquid, which forms a barrier that prevents sewer vapors from escaping to the rest room atmosphere.
3. Urine under the barrier layer overflows into the central tube and runs down to the conventional drain line.

### Cross - Section of the Patented Vertical EcoTrap®



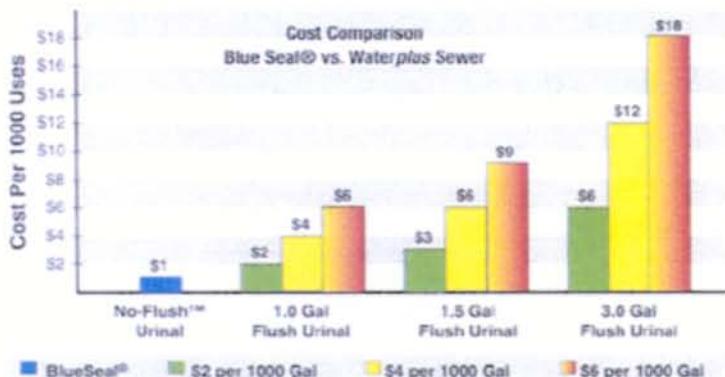
## BlueSeal® Liquid

A thin layer of **BlueSeal®** suffices to isolate urine and sewer odors from the atmosphere. A unique liquid, it does not dissolve, mix or react chemically with urine. It is over 95% biodegradable, does not evaporate at 100° F and pours at -65° F. Most commercial cleaning agents do not affect **BlueSeal®**. Its pleasant fragrance eliminates the need for deodorizers.

One quart of **BlueSeal®** lasts for 15,000 to 20,000 urinal uses, replacing the 15,000 to 60,000 gallons of water flushed by conventional urinals.

## Cost Benefits

The cost of **BlueSeal®** in **No-Flush™** urinals is about \$1.00 per 1000 uses. D drastic operating cost savings result as shown below by comparison with the water plus sewer costs of conventional urinals. Maintenance benefits are extra!



**Please call for a customized Savings Evaluation Report for your facility.**

## Details

- The dry urinal surface is liquid repellent and hostile to bacteria.
- The **BlueSeal®** layer is replenished with 3-oz. portions at about 1500 use intervals.  
**TASK TIME: 10-15 Seconds**
- **EcoTraps®** retain sediments. They are replaced easily one to six times a year according to traffic.  
**TASK TIME: 3-4 Minutes**
- Drain lines are free of encrustations. They are easily accessed by removing the **EcoTrap®** with the special **X-Traptor®** tool.
- Using **BlueSeal®** guarantees proper functioning of the system and adds a pleasant restroom fragrance.



*The Essentials!*

## Waterless No-Flush™ Urinals

### Information

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[ADA Information](#)

[Drawings](#)

[Color Choices](#)

[Photos](#)

[Warranty](#)

[Request Information](#)

### **Benefits:**

- *Saves water*
- *Saves sewer charges*
- *No-touch operation*
- *Odorless*
- *ADA compliant*
- *Low maintenance (eliminates flush valve upkeep)*



AMS Midlands, Inc. is the Missouri distributor for **Waterless Urinals**. If you are interested in this product for a state other than Missouri, visit the [Waterless Home Page](#). Otherwise, look around to see how a new installation or retrofit of these products can save your facility utility and maintenance charges.

### **Water Savings**

Because they function on gravity flow, **Waterless Urinals** completely eliminate water usage. They connect to standard 2" drain lines and can easily be retrofitted in existing facilities. With the dramatic reduction in water usage (an average of 2.3 gallons per flush!), you can significantly reduce the amount of waste water treatment required.

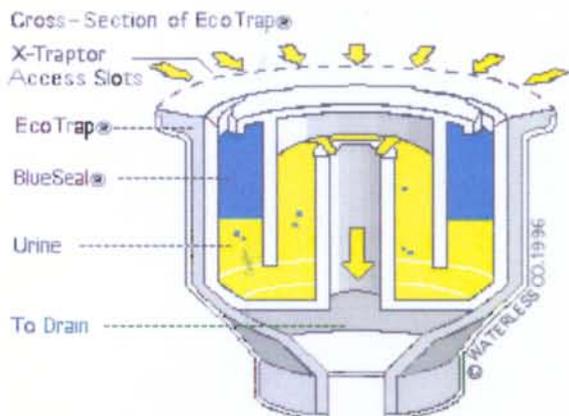
### **Reduced Maintenance**

Maintaining and repairing flush valves is eliminated due to the lack of a flushing mechanism. Overflows, plugged drains, and encrustations are also done away with. **Waterless Urinals** have no moving parts, thus reducing the chances of failure to the system.

### **Improved Hygiene/Sanitation**

The trend in new plumbing fixtures is the more hygienic touchless systems. **Waterless Urinals** accomplish this without the need of a flushometer. No flushing is required at all.

Dry surfaces are hostile to bacteria. Urine is not pooled in flushed water--it simply drains through the EcoTrap® and beneath the layer of BlueSeal® Liquid. This biodegradable liquid traps urine and sewer odors from escaping into the atmosphere.



### Cost Saving, Energy Efficient, and Hygienic

Not many products can save you money, help the environment, and improve restroom conditions like the **Waterless Urinal**. Most maintenance associated with urinals is reduced, and custodial upkeep is similar to or less than that of a traditional urinal.

**Waterless Urinals** are available in Sanitary White or custom colors. Because of fewer plumbing connections, the time it takes to install or retrofit these units is typically reduced compared to flushed urinals.

Thousands of **Waterless Urinals** have been installed since 1991. [Contact](#) us or [request](#) information on-line to join the schools, factories, and other commercial institutions that have become satisfied users of these products.

### Warranty

Waterless products come with a three-year limited warranty.

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## The Kalahari™ Urinal

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Site Last Updated 12/27/04

Questions or comments about this website? E-mail [kmwhee@amsmidlands.com](mailto:kmwhee@amsmidlands.com)

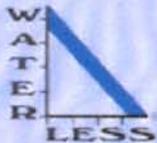
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FastCounter by bCentral

## The Dry Facts:

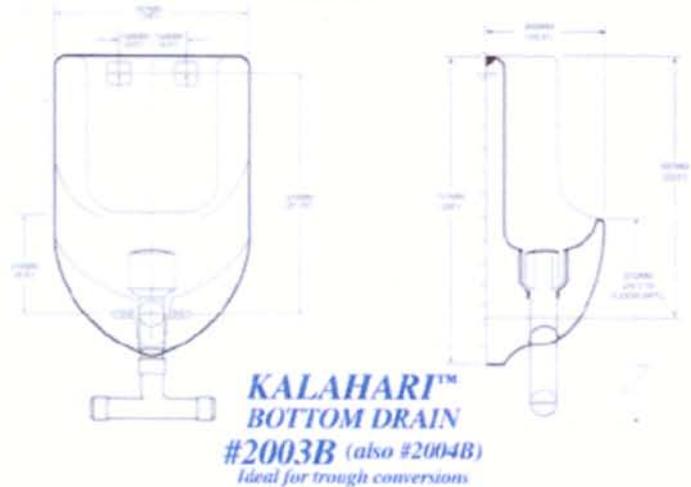
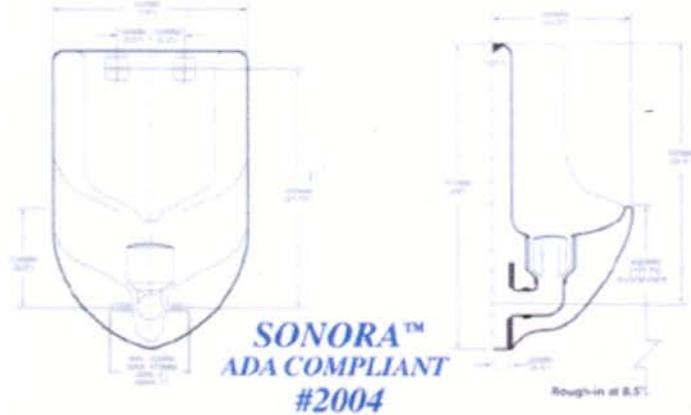
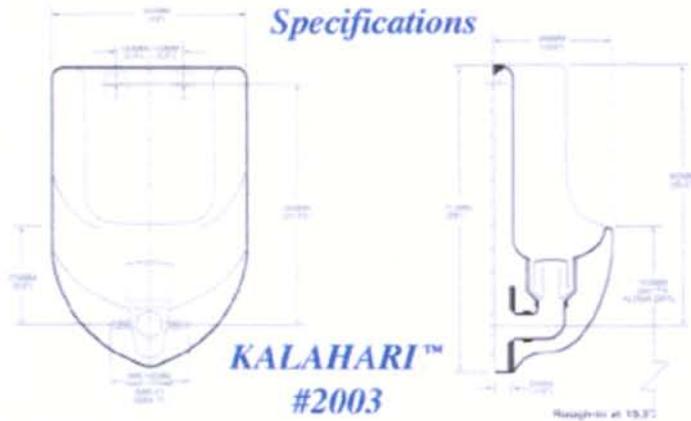
- Existing plumbing drain lines are designed for gravity flow.
- Water is not needed to transport urine in gravity flow systems as urine is 96% water.
- Dry urinals are hostile to bacteria growth.
- Water is not a disinfectant.
- No-Touch™ feature promotes hygiene.

**Specification Data:**  
 Fiberglass, Reinforced  
 Wall Hung, One Piece Shell  
 Weight: ~22 Lbs (~10Kg.) #2003, #2004  
 Connects to Standard 2" Drain Line  
 Color: Sanitary White or Custom  
 Standards: ANSI Z124.9  
 Listing: UPC®, CSA®, others  
 Warranty: 3 Year Limited



Manufactured by:  
**WATERLESS CO., LLC**  
 DEL MAR, CA., USA  
 1-888-NOFLUSH (663-5874)  
 TEL: 858-793-5393  
 FAX: 858-793-5661  
[www.waterless.com](http://www.waterless.com)

## Specifications



### Note:

Mounting slots accommodate most drain flange widths.  
 No Flushmeter needed for fixture. Provide suitable reinforcement for all wall supports.  
 ADA: Requires urinal rim to be mounted 17" above finished floor. Dimensions of fixtures are nominal and may vary within the range of tolerances established by ANSI Standard Z124.9. In keeping with our policy of product improvement, we reserve the right to change product specifications at any time without notice. No responsibility is assumed. Drain line materials and venting should conform to local codes.

Waterless™, No-Flush™, Squeeze™, BioWash®, EcoTrap®, 3-Trigger®, Air-Flange™, Kalahari™, and Sonora™ are Trademarks of Waterless Co.™ All recommended layouts for No-Flush™ urinals are biodegradable. EcoTrap® inserts are recyclable. Patents Pending.  
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Saving Global Water Resources Since 1



# WATERLESS NO-FLUSH

## Products

### **Urinals:**

Sierra™

Kalahari™

Sonora™

Del Mar™

Del Casa™

### **Materials**

BlueSeal®

EverPrime™

Signature™

GreenClean™

## How They Work

EcoTrap®

Installation

Specifications

Rest Room Sanitation

Conservation

Savings Evaluation

Federal Govt. & GSA

Information

Video

## Contact Us

E-mail

Info. Request

Waterless Co. welcomes you to the ultimate fixture in maintenance reduction and water conservation.

Our patented No-Flush™ urinals work completely without water or flush valves. The system is touch free, improves restroom sanitation and eliminates odors. Waterless No-Flush™ urinals can be easily installed to all restroom applications. High traffic facilities benefit the most, either through retrofits or in new construction.

A Waterless fixture saves up to 45,000 gallons of water and more per year per urinal and supports our intent for sustainability of our natural resources.

While seemingly an unusual fixture, its simplicity is what convinces. Over the past 13 years Waterless Co. has installed thousands of No-Flush™ urinals in the US and abroad. Some high profile installations include Liberty Island, New York; Petronas Towers, Malaysia; The Jimmy Carter Library, Georgia. Our proven track record for a functional fixture, cost and man hour savings, reduction in



## US Representatives Worldwide

Waterless Co. is  
proudly affiliated with:



Sustainable Buildings Industry Council

maintenance and the improvement of our environment have made Waterless Co. a leader in this new industry.

Waterless Co. strives to offer premium products, price stability, lowest long term operating costs, exceptional customer service as well as product innovations throughout its product line. Get The Dry Facts!!

CONSULTING-SPECIFYING  
ENGINEER

*Product*  
OF THE  
*Year 2005*

awards

Consulting-Specifying  
Engineer has  
awarded Gold honors to  
the Sierra  
in the "Perfect 10"

Voted #2 in Supply House Times Magazine's Top 10  
Products of 2003.

Voted *Hottest Product* by reader inquiries for 1998,  
American School and University Magazine

Winner, 1995 Leadership in Water Conservation Award  
Promising Products Category, U.S. Department of the  
Interior

Waterless Co LLC, a member of the US Green Building  
Council ([www.usgbc.org](http://www.usgbc.org))  
actively promotes and supports the concept of  
sustainability in the work we do.

## Our patented Waterless No-Flush™ urinals eliminate and/or minimize these common problems:

- Urinal Odors
- Flush Valve Repairs
- Low Water Pressure
- Costly Flush Sensors
- Stoppages and Overflows
- High Demand On
- Vandalism
- Line Encrustations
- Leaking Flush Valves
- Water & Sewer Costs
- Rest Room Shut Downs
- Mitigation for

**MATERIAL SAFETY DATA SHEET**

Distributed By: WATERLESS CO. • (800) 244-6364

**CHEMTEL—24 Hour Emergency Response (800) 255-3924**TRADE NAME: **BlueSeal®**

CHEMICAL OR COMMON NAME:

Urinal Odor Trap

**HAZARDOUS COMPONENTS**

MATERIAL	CAS #	TLV(ppm)
A mixture of aliphatic alcohol and surfactants	Mixture	50 ppm

**PHYSICAL DATA**

BOILING PT(Degrees F): >400	FREEZE PT(Degrees F): < -60
SPECIFIC GRAVITY: 0.84	SOLUBILITY IN WATER: Slightly miscible
APPEARANCE: Blue Liquid	VOLATILES(% by WT.): 98
PERCENT ACTIVE: 100	VAPOR DENSITY(AIR=1): >1
VAPOR PRESSURE(@ 100 Degrees F): <0.1 mm Hg	ODOR: Berry
EVAPORATION RATE(BUTYL ACETATE=1): <0.1	pH: 8 ± 0.5

\*\*\*&lt; means less than; &gt; means more than

\*\*\*These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

**FIRE AND EXPLOSION HAZARD INFORMATION**

FLASH POINT (Degrees F --PMCC): >200      AUTOIGNITION TEMP (Degrees F): No Data  
 FLAMMABLE LIMITS IN AIR Volume %: No Data    Lower: No Data    Upper: No Data  
 EXTINGUISHING MEDIA: WATER SPRAY, FOAM, CO<sub>2</sub>, DRY CHEMICAL. Product will float and can re-ignite on surface of water.  
 SPECIAL FIREFIGHTING PROCEDURES: Evacuate non-essential people. Firefighters should wear a positive pressure NIOSH approved self-contained breathing apparatus.  
 UNUSUAL FIRE AND EXPLOSION HAZARDS: Containers exposed to intense heat from fires should be cooled with water fog to prevent vapor pressure buildup which could result in container rupture.

**NFPA HAZARD RATING**

Health (blue): 1	Flammability(red): 1	Reactivity (yellow): 0
Least - 0	Slight - 1      Moderate - 2      High - 3	Extreme -4

**HEALTH HAZARD DATA**

\*\*\*It is important to determine whether exposure is to concentrated or dilute product. The information included in this document is intended to deal with exposure to concentrated product. Generally, exposure to diluted product will result in substantially less risk of injury than described herein.

PRINCIPLE ROUTES OF EXPOSURE: Eyes, skin contact, ingestion, inhalation.

CONTACT WITH EYES: Irritating, and causes further irritation if not removed promptly.

CONTACT WITH SKIN: Prolonged or repeated liquid contact may result in drying of the skin, which may result in skin irritation.

INHALATION: Negligible hazard at ambient temperature (0 to 100°F).

INGESTION: Ingestion of product may result in vomiting.

**EMERGENCY AND FIRST AID PROCEDURES**

EYES: Flush with plenty of water. Get medical attention if problem persists.  
 SKIN: Flush skin with water.  
 INHALATION: If discomfort is experienced, remove to fresh air. If breathing is difficult, give oxygen and call physician.  
 INGESTION: DO NOT INDUCE VOMITING. Get medical attention immediately.

**TOXICITY DATA**

SUSPECTED CANCER AGENT: NO                      OSHA REGULATED: NO  
 PROPOSITION 65: NO                                NTP & IARC: NO

**REACTIVITY DATA**

STABILITY: STABLE  
 CONDITIONS TO AVOID: Heat, temperature extremes, flames, ignition sources.  
 MATERIALS TO AVOID: Strong oxidizing agents  
 HAZARDOUS DECOMPOSITION PRODUCTS: Carbon oxides.  
 HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

**SPILL OR LEAK PROCEDURES**

WARNING: COMBUSTIBLE: Eliminate all ignition sources.  
 LARGE SPILLS: (Over 55 gallons) Eliminate all ignition sources and evacuate the hazard area of non-essential personnel. Wear appropriate protective clothing and rubber boots. Shut off source of leak if safe to do so. Dike and contain. Pump/vacuum/scoop to non-leaking salvage drum or container for disposal.  
 SMALL SPILLS: Mop up and rinse area.  
 WASTE DISPOSAL METHOD: Dispose of wastes in accordance with federal, state and local regulations.

**SPECIAL PROTECTION INFORMATION**

VENTILATION AND ENGINEERING CONTROLS: If applicable, in confined areas provide adequate local exhaust ventilation to lower the concentration of mists, vapors, or sprayed material.  
 RESPIRATORY PROTECTION: For an excess of mists and sprayed material, use NIOSH approved respirator.  
 PROTECTIVE GLOVES: Use of gloves will decrease skin dryness and coating of the skin.  
 EYE PROTECTION: Chemical splash glasses may be used if there is risk of sprayed product coming into contact with eyes.

**SPECIAL PRECAUTIONS**

PRECAUTIONARY STATEMENTS: CAUTION: **KEEP OUT OF REACH OF CHILDREN**  
 Do not get in eyes, on skin or on clothing. Do not take internally. Avoid breathing vapors.  
 D.O.T. INFORMATION: This product **IS NOT** D.O.T. Regulated.

THE INFORMATION CONTAINED HEREIN IS BASED ON THE DATA AVAILABLE TO US. IT IS BELIEVED TO BE CORRECT. WATERLESS CO., HOWEVER, MAKES NO WARRANTY, EXPRESSED OR IMPLIED, REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. WATERLESS CO. ASSUMES NO RESPONSIBILITY FOR PERSONAL INJURY OR PROPERTY DAMAGE TO VENDEES, USERS OR THIRD PARTIES FROM THE USE OF THE PRODUCT DESCRIBED HEREIN. SUCH VENDEES OR USERS ASSUME ALL RISKS ASSOCIATED WITH THE USE OF THE PRODUCT.

6/06/2002