

WATERLESS URINALS: FEATURES, BENEFITS, AND APPLICATIONS

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ABSTRACT

Billions of gallons of water are used annually to flush toilets in the United States. Consequences of this usage include consumption of natural resources and construction of new infrastructure to treat and transmit potable water and wastewater. Waterless, or no-flush urinals, may help mitigate these effects and offer other advantages, including lower utility charges, improved restroom hygiene, and decreased fixture maintenance. Some notable caveats include possible lack of acceptance by users, odor control problems, and rejection by code officials.

As urine is about 96% liquid, no additional water is really needed to wash it down the drain. The waterless, urinal, looking much like its conventional counterpart, takes advantage of this concept with generally positive results.

This paper will discuss the design, applications, operation, maintenance, advantages, and disadvantages of waterless urinals. The results of two surveys of current users will be shared. A case study from a Texas school district will be also presented.

DESIGN AND OPERATION

The waterless urinal appears and works like a conventional urinal, except that it does not flush and, therefore, requires no water. Like their traditional counterparts, waterless urinals are made of fiberglass or vitreous china, and are offered in white as well as various custom colors (Figure 1). ADA compliant models are also available. No-flush urinals can be installed virtually anywhere the conventional variety would be used.

Like ordinary urinals, waterless types are plumbed to a standard drain line, but obviously do not use a conventional water-filled trap. Waterless urinals utilize proprietary sealant liquids that act as a vapor trap. The liquids are composed primarily of natural oils that are lighter than water. Urine passes through this liquid and goes down the drain. The



Figure 1. Typical Cartridge-Type Urinal.

sealant liquid, except a minuscule amount that escapes with each use, remains in place to trap odors and prevent them from escaping into the restroom.

The various manufacturers of waterless urinals available in the U.S. use three types of drain trap designs. Two companies utilize a removable, recyclable plastic cartridge that is inserted into the fixture's drain hole. A typical design is shown in Figure 2, although they vary somewhat by manufacturer. Another maker employs an integral ceramic siphon that is cast into the urinal, and the last utilizes a built-in waste trap housed in the fixture drain. In all cases, whether removable or not, the drain trap is designed to contain the sealant liquid.

The removable cartridge, according to manufacturers' literature, serves two other purposes in addition to holding the sealant liquid. First, it acts as a strainer to keep unwanted materials such as

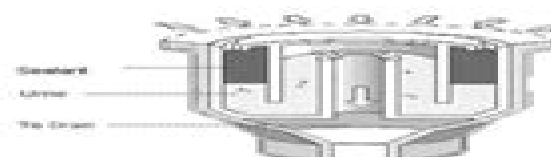


Figure 2. Typical Insertion Cartridge.

Waterless Urinal Legacy Report

M Woodhall



Waterless Urinal Legacy Report:

Annual Report Delaware River Basin Commission,1999

Government Reports Announcements & Index ,1978

Water Resources in the Middle East Hillel Shuval,Hassan Dweik,2007-07-30 Israeli Palestinian Water Issues From Conflict To Cooperation This book Israeli Palestinian Water Issues From Conflict to Cooperation authored by a group of leading Palestinian Israeli and international water experts is a unique and timely document illustrating the importance of mutual understanding respect and amity among peoples during a difficult period of stress whose leaders sadly have not yet found the way of resolving the conflicts between them and of living in peace with each other Nevertheless it is a book which demonstrates hope optimism and belief that people with good will in their hearts can help contribute to finding the way to peace and mutual cooperation in so many shared problems essential for their mutual survival and welfare and The participants in the 2 Israeli Palestinian International Conference on Water for Life in the Middle East held in Antalya Turkey in October 2004 which served as the source of most of the papers in this book concluded the Conference with the following declaration We two hundred participants in this Israeli Palestinian International Conference complete our conference with a sense of optimism It is clear that the Palestinian and Israeli participants along with their international partners remain committed to solving the many challenges associated with water quantity and quality in our region

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Environmental Protection Emil T. Chanlett,1979

Parliamentary Debates (Hansard). Australia. Parliament. Senate,

The Times Index ,1998 Indexes the Times Sunday times and magazine Times literary supplement Times educational supplement Times educational supplement Scotland and the Times higher education supplement

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The Architects' Journal ,2000

Waterless company no-flush urinals states of the art in water conservation Waterless Company,1996

This book delves into Waterless Urinal Legacy Report. Waterless Urinal Legacy Report is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Waterless Urinal Legacy Report, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Waterless Urinal Legacy Report
 - Chapter 2: Essential Elements of Waterless Urinal Legacy Report
 - Chapter 3: Waterless Urinal Legacy Report in Everyday Life
 - Chapter 4: Waterless Urinal Legacy Report in Specific Contexts
 - Chapter 5: Conclusion
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 3. In chapter 2, the author will delve into the foundational concepts of Waterless Urinal Legacy Report. The second chapter will elucidate the essential principles that must be understood to grasp Waterless Urinal Legacy Report in its entirety.
 4. In chapter 3, this book will examine the practical applications of Waterless Urinal Legacy Report in daily life. The third chapter will showcase real-world examples of how Waterless Urinal Legacy Report can be effectively utilized in everyday scenarios.
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 6. In chapter 5, the author will draw a conclusion about Waterless Urinal Legacy Report. This chapter will summarize the key points that have been discussed throughout the book.
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
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