

# The Blueprint for a Greener Restroom™



## SMARTER BY DESIGN

The Falcon Waterfree urinal is one of those rare products that save money and time while conserving natural resources. It allows facility managers to do a good thing while doing a very smart thing...that will become even smarter as operating costs rise.

The Falcon Waterfree urinal system consists of a vitreous china fixture and a patented, replaceable cartridge that locks into the base of the urinal. The cartridge is installed into a housing that connects to the drain line. That's all there is – no flush valve assembly, no water supply hookup.

## HOW IT WORKS

The heart of the Falcon Waterfree urinal system is the cartridge, which acts as a drain trap. The cartridge design and use of nonporous materials ensure that all urine passes into the cartridge and through a unique, biodegradable sealant.

The pleasant-smelling sealant liquid provides an airtight barrier between the drain and the restroom to prevent odors from escaping. The sealant lasts for the life of the cartridge, so there is no need to add sealant between cartridge changes.

The cartridge also acts as a trap for uric sediment, which could otherwise contribute to drainage pipe clogging. The results are a virtually odor-free environment, clean pipes, and no water waste.

The only maintenance is routine cleaning of the fixture and an easy change of the cartridge approximately three to four times per year.

## ECONOMIC BENEFITS

Falcon Waterfree urinals reduce costs in three key ways:

### 1) Lower installation costs

- No flushing mechanism or water supply lines.
- Installation time is typically less than an hour per fixture.

### 2) Lower water/sewer costs

- Save 100 percent of the water and sewer costs associated with flush urinals.
- Eliminate the energy costs associated with pumping water to and from the fixture.

### 3) Lower maintenance costs

- No stuck or broken valves to repair.
- No costly cleanup of flooding caused by clogged drains or mischief-makers.
- Clogs and cleaning are reduced because drain lines remain free of hard-water calcification.
- Daily maintenance is a quick “spray and wipe” process that reduces the amount of cleaning solution used.

## HYGIENIC AND AESTHETIC BENEFITS

Falcon Waterfree urinal systems actually reduce odors and contribute to a cleaner, more sanitary restroom. A few facts explain why:

- “Urine odor” primarily results from the reaction of urine with water and air, creating ammonia gas. Without water, there's no reaction.
- Bacteria and viruses thrive on moist surfaces, and the wet surface of a flush urinal is a breeding ground for their growth. Plus, flushing creates a plume that spreads them around the restroom.

*The patented, sealed cartridge uses a biodegradable sealant liquid to control odors.*



Liquid sealant floats on top...



urine passes through the sealant...



and is isolated from the restroom while it proceeds to the drain.

# FALCON WATERFREE URINALS

## ENVIRONMENTAL BENEFITS

Each Falcon Waterfree urinal saves an average of 40,000 gallons (151,000 liters) of water each year. Plus, with waterfree urinals, water does not have to be pumped to or from the urinal. This saves energy, which in turn reduces carbon dioxide emissions associated with energy production – emissions that contribute to global warming.

In addition, Falcon Waterfree products lessen the demand placed on wastewater treatment plants. By freeing up plant capacity, they help reduce the risk of sewage overflows.

Finally, Falcon Waterfree urinals promote the water conservation goals of the LEED Green Building Rating System.



F-1000



F-2000



F-4000



F-5000

## PLANNING CHECKLIST: BENEFITS OF GOING WATERFREE

Falcon Waterfree urinals offer numerous benefits that will make your job easier and help fulfill your strategic facility plan.

### FALCON WATERFREE URINALS

(COMPARED TO MANUAL AND AUTOMATIC FLUSH URINALS)

#### COST

- ✓ Lowest initial product cost
- ✓ Lowest installation costs – fewer materials, less labor
- ✓ Lowest operating costs – zero water consumption, negligible sewer charges, and no need for odor-control products
- ✓ Low maintenance costs – replace the cartridge three to four times per year
- ✓ Reduce vandalism and eliminate floods – no water supply, valves, or sensors to be tampered with

#### HYGIENE

- ✓ Touch-free operation
- ✓ Odor-free fixture
- ✓ Bacteria reduction

#### ENVIRONMENT

- ✓ Water conservation – an average of 40,000 gallons per year, per urinal
- ✓ Reduction in the use of harsh cleansers
- ✓ Energy savings by avoiding water/waste pumping and sewage treatment
- ✓ Avoid CO<sup>2</sup> emissions that are normally a byproduct of the energy required to transport and treat water



**FALCON**  
WATERFREE TECHNOLOGIES

Falcon Waterfree Technologies  
751 Kenmoor Ave. S.E.  
Grand Rapids, MI 49546  
Toll-free 866-275-3718  
or 616-954-3570  
Fax 616-954-3579  
info@falconwaterfree.com  
www.falconwaterfree.com

Do all of these benefits apply to your facility? It's very likely – and it's easy to find out. With a few facts from you, we can quickly respond with a proposal. Contact us today and we'll help you draw up a blueprint that meets your economic, sanitation, and environmental goals.

