



Smart Restroom System

Installation & Technical Guide



- **Reduce Operating Costs**
- **Conserve Natural Resources**
- **Earn LEED and BOMA 360 Points**
- **Improve Tenant Satisfaction**
- **Improve Hygiene**

This carton contains the easiest to maintain and quickest to install water conserving urinal system on the market today. The combination of Betco's **Smart Valve**® (manual or automated) and **SmartScreen**® is changing the way building owners and facility managers look at:

- **Reducing Operating Costs**
- **Conserving Natural Resources**
- **Earning LEED Points**
- **Improving Tenant Satisfaction**
- **Improving Hygiene**



The BEST WATER CONSERVING URINALS are the URINALS YOU ALREADY HAVE!

At the heart of Betco's Smart Restroom System is our latest innovation...the **Smart Valve**. This lockable, patented (#8,256,037), flush valve turns most any urinal with a standard or automatic flush mechanism into a water conserving urinal. Retrofitting enables continued use of existing urinals and avoids costly urinal replacement. The **Smart Valve** pays for itself in a matter of months by reducing water usage and operating costs as compared to other water free urinal systems and is easier to maintain.

Fits the following commercial flush valves:

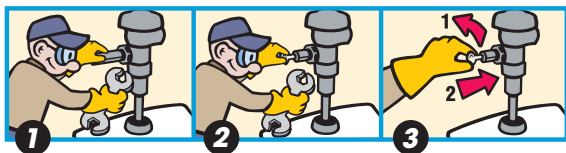
Brand	Model
SLOAN	Regal®, Royal®
ZURN	AquaFlush®, AquaVantage®

Smart Valve® Auto Installation



1. Remove flush handle from the existing flush valve.
2. Install the **Smart Valve** Auto®.
3. Remove battery cover and connect battery terminals (unit will flush once).

Smart Valve® Installation



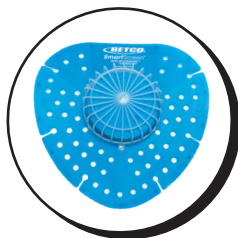
1. Remove flush handle from the existing flush valve.
2. Install the **SmartValve®**.
3. Test flush with supplied key: **ROTATE AND PUSH IN**

SmartScreen®

with **BIOACTIVE ENZYMES**

To compliment the **SmartValve**, Betco's technical team developed the **SmartScreen®** to counteract the odor and scale build up from urine and hard water.

Only the SmartScreen has the most comprehensive odor fighting components on the market today. The SmartScreen also supports the conversion of flushing urinals into water conserving urinals with the SmartValve.



Highly Engineered

SmartScreen is a highly engineered and formulated urinal screen with an integral block that effectively counteracts odors at the source and reduces maintenance costs when compared to other water free urinal systems.

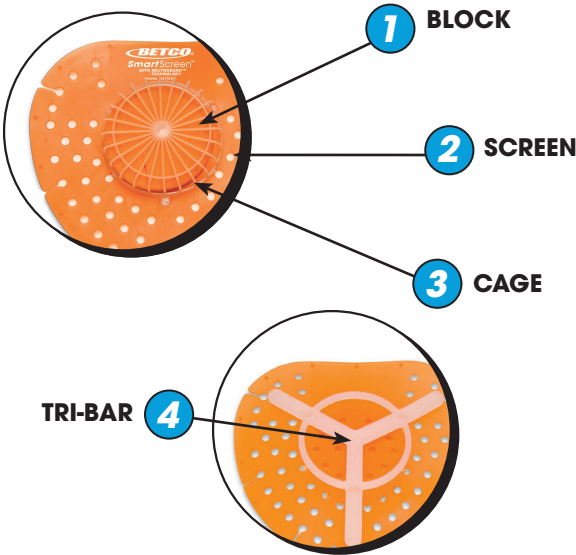
Neutrabond™ Technology



The no.1 issue facing water free urinals today are malodors. Betco's technical team developed the **SmartScreen** to combat the source of those malodors with our proprietary Neutrabond™ Technology.

4 Key Components

SmartScreen® is comprised of the most comprehensive odor fighting components on the market today. Each **SmartScreen** consists of 4 key components: Block, Screen, Cage and Tri-Bar.



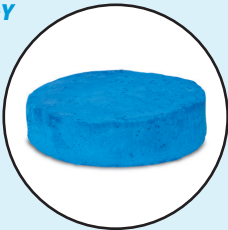
The Block

1

The heart of the **SmartScreen** is a 4 oz. non-Para block which releases **NEUTRABOND™ TECHNOLOGY**, **BIODEGRADABLE CLEANING AGENTS**, and **BIOACTIVE ENZYMES** as it dissolves. These components attack odors and scale build-up at the source.

NEUTRABOND™ TECHNOLOGY

A specially developed combination of malodor counteractants and fragrances that gradually release to chemically bond to microscopic sulfur and ammonia compounds rendering them odorless and non-toxic. Neutrabond captures the malodors and odorizes with pleasant fragrances ensuring the restroom smells pleasant for use.



BIODEGRADABLE CLEANING AGENTS

Surfactants and chelating agents suspend and prevent hard water minerals such as calcium, magnesium and iron from building up on the porcelain and drain pipes.

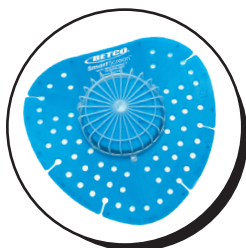
BIOACTIVE ENZYMES

Each block consists of 1 Billion CFU's (Colony Forming Units) that counteract odor causing bacteria. Urine is primarily comprised of water and uric acid. Uric acid, and its salts, are a food source for odor causing bacteria and left untreated will begin to emit odors as they break down. The four proprietary strains of non-pathogenic bacteria in the block produce enzymes specifically targeted to quickly breakdown uric acid and its salts. This action helps prevent build-up in urinals and pipes while eliminating the food source for odor causing bacteria. This helps avoid costly plumbing repair calls.

The Screen — 2 —

The screen delivers a steady rate of fragrance and malodor counteractant for 30 days. The urinal screens are also impregnated with **NEUTRABOND™ TECHNOLOGY**; which consists of fragrance and malodor counteractants.

This combination is VOC compliant and provides an integrated system for controlling malodors. The screen and block system are designed to resist breakdown when exposed to common urinal cleaning compounds including: acid bowl cleaners, quaternary ammonium chloride cleaner or disinfectants.



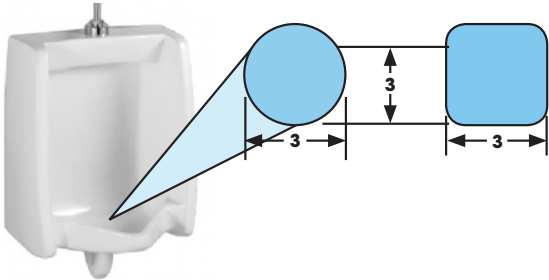
Cage & Tri-Bar — 3 — 4 —

While the cage keeps the block centered and contained during use; the tri-bar supports the block and screen to be positioned above the urinal water level. This positioning ensures optimal performance.



SmartScreen® Installation

The **SmartScreen®** is designed for use in urinals that have a water surface **smaller** than 3 x 3 inches. Each installation requires a site survey to determine whether or not the **SmartScreen** will work. The **SmartScreen** will not work if it is submerged under water.



Make sure the SmartScreen is installed right side up.



CORRECT



INCORRECT

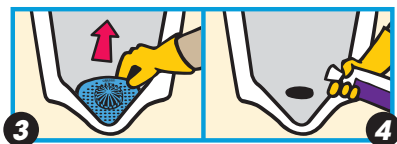


Smart Restroom Daily Cleaning & Maintenance Procedure

* Remember to put up restroom in service signs and wear personal protective equipment before cleaning.

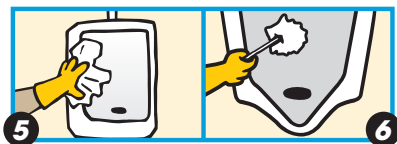


1. Flush the **SmartValve**® with key supplied.
2. Remove debris from urinal well.



3. Remove Betco **SmartScreen**®.
4. Spray or squirt disinfectant or cleaner on inner urinal surfaces and allow to dwell.

Smart Urinal Cleaner is recommended



5. Clean outer urinal surfaces with disinfectant or cleaner and a microfiber cloth. Then allow to air dry.
6. Scrub inner urinal surfaces, jet holes and well area with bowl swab.



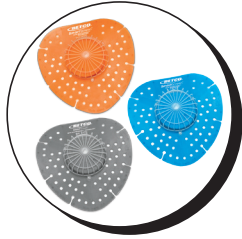
7. Flush **SmartValve** to push cleaner through the drain lines.
8. Replace Barrier Fluid if needed (optional).
9. Replace **SmartScreen**.

Smart Restroom Interim Maintenance Procedure

Replace the **SmartScreens** every 2400 uses or 30 days, whichever comes first.

SmartScreen®

The **SmartScreen®** is simply the **MOST EFFICACIOUS** odor counteractant, **COST EFFECTIVE, HYGIENIC, EASY TO MAINTAIN** and **CLEAN** way to support converting flushing urinals into water conserving urinals with the **SmartValve®**.



Using the **SmartScreen** means no more...

- **Malodors from improperly maintained urinals**
- **Time consuming and degrading urinal maintenance for the cleaning staff**
- **Replacing costly water free urinal cartridges**
- **Handling spillable biohazard waste**
- **Bulky plastic cartridges filling up landfills**

FOR ADDITIONAL WATER SAVINGS TRY BETCO'S

Low Flow Faucet Aerator (0.5 gpm)

Typical commercial faucets are supplied with flow rates ranging from 2.2 gallons per minute (gpm) to 1.5 gpm. Smart buildings are installing 0.5 gpm aerators which use significantly less water without compromising hand-washing hygiene. Less water equates to lower water costs and lower energy costs to heat the water. Let BETCO show you how to start saving money and conserving our natural resources.



ADDITIONAL MALODOR COUNTERACTANTS

Barrier Fluid

Barrier Fluid is a specially designed fragranced oil that suspends above the water to keep odors from emanating into the washroom from water free urinals and floor drains.



Typical applications for Barrier Fluid are:

- High traffic areas such as stadiums, airports and convention centers.
- Pre-existing malodor conditions emanating from floor drains.
- For extended periods between urinal cleanings, when using the **SmartValve®**.
- Pre-existing water free urinals.
- Facilities with well water with high sulfur content.

Barrier Fluids come in 2 fragrances: **Ocean Breeze** and **Neutral**. The Neutral fragrance was developed for those applications where the users are scent adverse or where added fragrance is not preferred.

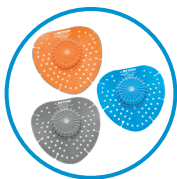
Each case of Barrier Fluid comes with an easy to dispense pour spout and proportioner that assists the cleaning staff in dispensing barrier fluid into the application.

Clario® Air Care

The Smart Restroom System, incorporates an optional metered air care cabinet to achieve a consistent level of fragrance between restroom service cycles and for additional malodor counteractants. Each metered refill formula consists



of Neutrabond™ Technology found in the SmartScreen® and Barrier Fluid. These complimentary fragrances assist in maintaining a uniform pleasant restroom experience. Simply install a metered aerosol into the cabinet, press the reset button and enjoy a higher level of tenant satisfaction.



SMART COMBO PACK

1- Combo pack/cs.

- Saves money by conserving water usage.
- Combo pack includes: 1- **SmartValve®**, 1 - End User Decal, 3 - **SmartScreens™**.
- Fits SLOAN Regal®, SLOAN Royal®, Zurn AquaFlush® and Zurn AquaVantage™ valves.

MANUAL

91529-00 Citrus Bouquet **91538-00** Ocean Breeze
92362-00 Autumn Uprising

AUTO

92195-00 Ocean Breeze **92196-00** Citrus Bouquet
92363-00 Autumn Uprising

SmartScreen® with BIOACTIVE ENZYMES

72 - Screens/cs.

- Eliminate malodors and reduce drain line build-up.
- Biodegradable chelating agents and 4 non-pathogenic bacteria produce enzymes specifically designed to quickly breakdown uric scale and water scale.
- Puck components chemically bond to malodors including sulfur and ammonia compounds rendering them odorless and non-toxic.

28672-00 Ocean Breeze **28772-00** Citrus Bouquet
461072-00 Autumn Uprising



BARRIER FLUID

6 - Quarts (946 mL)/cs.

- Reduces odor and enhances the restroom experience.
- For use in water free urinals and floor drains.
- Neutral barrier fluid for those areas where added fragrance is not needed.
- Fragrances compliment **SmartScreens** and Clario® air care refills.

26270-00 Neutral

29170-00 Ocean Breeze

LOW FLOW AERATOR

1 - Aerator/bag

- 0.5 gpm aerator reduces water usage.
- Adapter specifically for Chicago Faucets brand.

91530-00 0.5 gpm Aerator Kit

91531-00 Chicago Faucet Adapter

CLARIO® AIR CARE SYSTEM

6 - Dispensers/cs.

6 - Metered Aerosols/cs.

- Improves tenant restroom experience by eliminating malodors.
- Low VOC formulations and no ozone depleting substances.

91753-00 Dispenser -White

02583-00 Ocean Breeze

03183-00 Citrus Bouquet



Cleaning Innovations That Matter.

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