Introducing

NoFlush Urinal Systems
NoFlush BioSleeve & NoFlush BioClean

* Saves Water *
* Reduces costs *
* Eliminates Odours *
* Solves Urinal Problems *

Helping you help our environment
**NO FLUSH Urinal System**: saving water, reducing costs, the ideal solution to Urinal smell and blockage problems.

*Why URINALS SMELL.*
Urinal smells are primarily caused by ‘bad’ bacterial activity. Such ‘bad bacteria’ quickly become a permanent feature of any urinal, forming difficult to eliminate BIOFILMS.

*What is a BIOFILM?*
Biofilms are thin, complex aggregations of bacteria within a protective, adhesive matrix known colloquially as ‘slime’. Biofilms form and build on the surface of urinal outlets and traps.

NOTE: Biofilms form slowly (but surely); hence new or waterless urinals typically function initially without problems for several months before becoming problematic. Once established, even bleach will not penetrate the biofilm. Any water flow reduction (except when using waterless systems) generally increases biofilm build up.

*How do URINALS BLOCK?*
Urinals experience periodic blockages of the outlet and pipe works as a result of gradual formation and build up of biofilm, algae and a sludge of uric salts, lime scale and other wastes.

NOTE: Washers in urinal traps will perish; causing leakage outside the trap. Lime scale will inevitably form with normal water usage. Urine consists of 0.5% of insoluble uric salts. The resulting slurry needs regular flushing to prevent build up.

*Common Urinal Management Systems.*
Numerous products are available to deal with unpleasant smells, blockages and to reduce water consumption in urinals. Unfortunately most tend to treat the symptoms rather than cure the problem. If only it was so simple!

**Urinal Blocks**
Urinal blocks are used only to mask urinal odours. Regular blocks deplete with air exposure but do not shrink when submersed in water. Hence pieces of block that fall into the urinal trap collect in the ‘uric sludge’ and assist in blockage occurring.

NOTE: Unless they are ‘air locked’ all urinals will emit some degree of odour.

**Conclusion**: Deodorising blocks only mask odours and may increase blockage.

**Water misers**
Various Water Management Systems (WMS) are capable of reducing water consumption generally without additional urinal treatment measures. Unfortunately, without sufficient water (volume and frequency) to physically flush ‘urinal sludge’ along, a build up occurs resulting in more frequent blockages. In other instances excessive flushing (too frequent) occurs, resulting in unnecessary water usage. Irrespective, the biofilm and ‘bad’ bacterial activity remain. Generally within months, WMS by themselves cause even worse urinal problems and hence costs (blockage clearance and cleaning is expensive!).

**Conclusion**: Reducing water consumption by itself does not work well.
Chemical Dosing
Chemicals are ‘fed’ into the water as the urinal flushes (with/out a WMS). Often the chemicals are flushed away before taking effect, resulting in the need for frequent dosing. These chemicals are usually expensive and together with a WMS, the final cost is often greater. Corrosive effects also need to be considered as well as the environmental impact of chemical usage.

Conclusion: Chemical usage is wasteful, expensive and not environmentally friendly.

Enzyme treatment
Enzymes from good bacteria clean the urinal microbiologically. These good bacteria will cohabitate with, and eventually dominate, the naturally occurring bad bacteria. This process is very effective but only under correct conditions. To be effective an adequate bacterial concentration and sufficient time for them to work is necessary. It is futile to introduce insufficient bacteria or to constantly flush them away. Environmentally this type of system is ideal.

Conclusion: Enzyme treatment is ideal but only if properly instituted.

The ‘BIOSLEEVE ’ NO FLUSH Urinal System
The BioSleeve system is a comprehensive solution that cleverly employs both water management and environmentally friendly enzyme treatment to effectively eliminate common urinal problems.

What does the NO FLUSH Urinal System consist of?
1. BIOSLEEVE: a plastic, cone shaped canister that simply fits into the urinal outlet. It contains a gel like suspension of friendly bacteria and enzymes, surfactants, water softeners and a subtle, pleasant deodorant.
2. SOLENOID VALVE (with programmable timer) fitted into the existing flushing system (retro-fitted) or installed in new urinals.

How does the NO FLUSH Urinal System work?
The BIOSLEEVE will direct and introduce a bacterial/enzyme mix to the urinal waste. This waste is then enzymatically broken down and flushed away intermittently. The great thing is that the bacteria work continually.

What are the benefits of the NO FLUSH Urinal System?
- Provides a physical air lock.
- Restricts biofilm build up, prevents seepage, and helps preserve seals.
- Helps prevent blockages and keeps pipe work clean.
- Reduces water usage significantly.
- Improves overall urinal hygiene.
- Reduces water use, deodorising and maintenance costs.
**MULTI actions of the NO FLUSH system**

The BIOSLEEVE by design and fitting provides an air lock to the outlet/trap. This prevents any remnant odours being emitted and directs all fluid through the BIOSLEEVE’S plastic cone so that no seepage can occur at the outlet/trap junction. This helps prevent acid salts depositing at the sealed joints, so prolonging their use. Biofilm build up is also restricted, primarily to the cone itself (which is periodically replaced).

As fluid flows inside the BIOSLEEVE, seeding of the waste with bacteria/enzymes occurs. These good bacteria rapidly multiply into a functional ‘biomass’ that breaks down the insoluble salts (primarily uric acid salts) into a soluble product which can be then flushed away. The biomass competes with and predominates over other ‘bad’ bacteria further eliminating their bad odour production. Additional conditioners (surfactant and softeners) enhance the whole process.

The minimal, controlled flushing (via the solenoid/timing unit) allows sufficient time for the good bacteria to work whilst still providing periodic flushing of wastes. So every time a flushing is done (usually 4-6 times/day), both new bacterial/enzyme seeding and elimination of ‘old’ waste occur simultaneously.

NOTE: waterless systems do not include a periodic flushing system or direct fluid flow and therefore do NOT eliminate these causes of blockage.

**Why use a NO FLUSH Urinal System?**

- Comprehensive urinal management (odour and blockage)
- Savings on water usage (up to $280 per urinal/annum)
- Significant reduction of urinal maintenance
- Superior to other urinal management systems
- No usage of chemicals and deodorising blocks
- Easy conversion, installation (retrofit)
- Environmentally friendly
- Improved hygiene
To Maintenance/Cleaning staff,

The NO FLUSH Urinal System is simple and effective. It utilises bacterial action to function and requires some simple changes to the normal cleaning regime.

It is IMPORTANT to:

1. Clean urinal daily with diluted No Flush Urinal Solutions biological solution ONLY.
2. Using spray bottle (with 10:1 dilution of biological concentrate in water) spray on/around urinal and wipe clean.
3. DO NOT USE bleach, disinfectant or other cleaning products in urinal or its immediate surrounds. These will kill the bacteria in the BIO-SLEEVE gel.
4. If using other cleaning agents on occasion in/around the urinal (except for heavy duty clean), the BIO-SLEEVE may be temporarily removed.
5. Remove rubbish as usual from urinal.
6. Change BIO-SLEEVE every 3 months (see instructions on BIO-SLEEVE bag).
7. Change timer battery once per year (see instructions).
8. Do not alter or turn off timing system without consulting us. It is set optimally to flush every 4-6 hrs.
Replacing the Bio-Sleeve

Gently twist old BIO-SLEEVE upwards to remove from collar.

If a sleeve or extension is fitted to the BIO-SLEEVE, this must be removed and then refitted to the new BIO-SLEEVE.

The sleeve ensures a secure fit and seal of the whole BIO-SLEEVE unit.

The extension (when fitted) ensures the BIO-SLEEVE reaches the water level in the urinal trap.

Gently push new BIO-SLEEVE into collar. Be sure unit is inserted fully and sits secure.

Resume daily maintenance using No Flush Urinal Solutions Biological Solution.

Please refer to Material and Safety Data Sheets (MSDS) for both the Bio-Sleeve and BioClean Cleaner.

For further enquiries and orders of NO FLUSH urinal products contact No Flush Urinal Solutions Pty Ltd.