

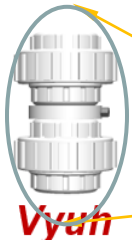


**Multiversal**

Technologies to impel your future

*Waterless Urinal Technology*

**Vyuh™**



**Vyuh**



## Patented in USA & India

- **Turn it Waterless** - Our Patented technology used in Vyuh enables this device to convert any regular water flush urinal into a waterless urinal.
- **Low Cost** – Our device is the lowest cost solution in the market
- **No Odor** – As an added bonus, your toilets would no longer stink (if cleaned and maintained properly)
- **Low Bacteria Load** – Absence of water deters bacteria growth.
- **Saves up to 171,000 liters** of fresh water per urinal annually.
- An **eco-friendly** solution
- **No Recurring Costs** - Vyuh uses a Mechanical odor trap that does not need any consumables.
- **Easy to maintain** - Vyuh is completely detachable.
- **Long Life** - Made of sturdy, highly durable material
- **Retrofits** on to existing Urinal bowls, thus reducing installation costs.

## Key Features

**Low Cost**

**No Water**

**No Odor**

**No Power**

**No Chemicals**

**No Recurring Costs**

**Low Maintenance**

**Retrofits on all Urinals**



**World's first 3D animation manuals**

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Liters per flush

Traditional toilet



Low-flow toilet



Traditional Urinal



Low-flow Urinal



Waterless Urinal



0 2.0 4.0 6.0 8.0

## How does it work?

- Over 90% of the Odor in a Urinal comes from the plumbing. It is in the plumbing line that the germs have time to multiply and produce odor.
- If this odor is prevented, most of the hygiene issues related to smell will be solved.
- Vyuh is a Unidirectional-BiFluid Valve.
- It allows the first fluid, Urine to flow down while preventing the second fluid, Odor, from flowing back out of the Urinal.

## What is the Environmental Impact ?

- Only 3% of water on earth is fresh water.
- A typical urinal uses anywhere between 3 liters (regular urinals) to 15 liters (for western toilets) of fresh water per flush.
- Annually a single urinal could use an equivalent of fresh water in three average sized swimming pools.
- The sewage treatment plants are overwhelmed by the excess water that needs to be treated.
- We are wasting fresh water to flush urinals that could otherwise be used for drinking!

## How much can you save?

- By installing Vyuh on your Urinals you save up to 171,000 liters of fresh water per urinal per year. Cost of water varies but it would be in the range of Rs. 12,000 per year for 12 Urinals.
- You save up to Rs 3,500 annually in electricity as you do not need to pump this water to your over head water tanks (assuming 10 urinals capacity).
- You do not need to spend on scent chemicals. A savings of up to Rs 4,500 per year
- You could realize an over all savings of up to Rs. 20,000 per year for 10 urinals.
- If the urinals are used more frequently then the savings are even higher.
- You could continue enjoying an odor free environment while saving on your expenses.
- Plumbing Lines do not clog as hard scales do not form with Vyuh.
- **Recover your investment within 1.5 yrs.**

Description	Vyuh	Flange with Ball float	Membrane Trap	Sealant Liquid Trap
Ability to Fit on a Urinal bowl	Universal	Suitable only to certain types of Urinals	Uses Own Urinal bowl	Uses Own Urinal bowl
Urinal Bowl replacement	Not required	Required	Required	Required
Cost of New System	Lowest Cost	₹ 7,500	\$160 = ₹ 10,800	₹ 14,000/-
Replacement Parts	None	None	Membrane replacement needed	Sealant replacement required
Cost of Maintenance	None	None	₹ 1500 (Trap has to be replaced at least twice a year)	₹ 3,500 (sealant liquid) + ₹ 1,750 (Cartridge), Total = ₹ 5,250
Routine Maintenance	Float to be cleaned occasionally	Ball to be retracted to clean occasionally	Trap has to be dismantled from urinal and waste pipe	<ul style="list-style-type: none"> <li>• Liquid sealant has to be replaced every 1000 uses.</li> <li>• Cartridge replacement required 4 to 6 times a year</li> </ul>
Time required for maintenance	2 mins	10 mins	30 mins	10 mins
Issues/Constraints	None	None	Dependent on supplier for membrane replacement	Dependent on supplier for cartridge and Sealant

