

12. Water Conservative Fittings

A Comparison for Conventional water fittings v/s Water conserving fittings

Description	Conventional fittings			Water conserving fittings			% Water savings	Notes
	liters/use	uses/day	liters/day	liters/use	Uses/day	liters/day		
Drinking	-	-	5	-	-	5	0%	
Cooking	-	-	5	-	-	5	0%	
Bath	15 lts/min	5 min	75	5 lts/min	5 min	25	80%	
Washing clothes	-	-	25	-	-	25	0%	*1
Kitchen sink	17 lts/min	0.88 min	15	5 lts/min	0.88	4.4		
Hand Wash	3.3	3	15	2	3	6	60%	
House cleaning	5	1	5	5	1	5	0%	
Lawn watering and gardening	15	1	15	15	1	15	0%	*2
Flushing of water closets	12	3.75	45	4	3.75	15	66%	
Total			200			105.4	47.3%	

*1. Consumption can be reduced if people use front loading washing machine instead of top loading machine and also with the usage of efficient wash detergents/powder.

*2. Depending on lawn area, consumption can be reduced by watering the lawn and plants with buckets (manually) or using sprinklers with timers, instead of hose.

By replacing highly featured sanitary fittings in the bathrooms with efficient fittings, we can achieve great reduction in water consumption. The table above gives the comparison between conventional fittings and efficient fittings. Approximately, 47.3% of water consumption can be reduced by installing water efficient fittings and this equals to 34,500 liters saving every year!

Commercially available product

A. Sydney Smart 305 Round Front Plus

4.8/3 lts dual flush, Caroma makes it.

Website: www.caromausa.com



12.1

B. Parryware Angel- Concealed

4/2 lts dual flush cistern- Concealed. Parryware makes it .Website: www.eparryware.com



12.2

C. Solan SOLIS model

Solar- powered, sensor-operated Flushometers. Use light to charge a highly efficient capacitor, providing power even in rooms with occupancy-controlled lighting. The solar panel powers the unit without the need for moving parts in the waterway

6/4.2 lts dual flush, Solan makes it, Website: www.sloanvalve.com



12.3

D. Wall-hung Sloan WES-1000 Water free Urinal

Features and Benefits: (as per manufacturer claims)

- Uses no water
- Patented, Sealed Locking Cartridge
- Smooth, non-porous surfaces
- Reduced water and sewer costs
- Water supply piping not required
- Odor-free
- Vandal resistant
- Require minimal maintenance
- Touch-free operation



12.4

Solan valve makes it, Website: www.sloanvalve.com

E. Low Consumption Washout Urinal with Concealed Back Spud Inlet

2/1 lts flush, Toto makes it. Website: www.totoindia.com

12.5



F. Aqua Clic Water Saving Device

Aqua Clic - is a Water Saving Device that is placed upon the end of taps to reduce the flow and save water.

A highly visible flow controller, which saves you up to 70 % water and energy
Regulates water flow to a constant 5 liters per minute, regardless of the water pressure

Website: www.aquaclicwatersaving.com

12.6



G. Tap aerators

Aerators restrict the flow of water from your tap without reducing water pressure. Fit an aerator to your taps and reduce the amount of water you use by more than 50%. Restrict the water flow to 2.5 lpm

Manufactures of Tap aerators are

- Aqualogic: www.aqualogic-wc.com
- Challis water controls: www.challiswatercontrols.co.uk
- Aqua Clic: www.aquaclicwatersaving.com

12.7



H. Water conservation taps

Taps comes with aerators, 2.5 lpm, Manufacturer includes: Solan valve, Kohler and Caroma.

12.8



I. Low Water Consuming Fittings - Showers

As we know the major consumption in residential units are because of showers, approximately 40% of the total consumption. The innovative showers in the bathrooms offer great shower with adequate pressure and also less water bills. Aerated water saving shower head will restrict the water flow therefore using less water during the shower.

12.9

AL-AIR8/6: 6 lpm, Web site: www.aqualogic-wc.com

