

**Smarti Water-free Urinals - Water Savings Calculator.**

Client / Site : **University Of Exeter - Sept. 2020**

**Existing Water Flushing System**

Number of Current Urinals/Troughs	172	
Number of Cisterns	79	
Average Size of Cisterns in Litres EST.	7.07	litres
Flushing Cycle (minutes between flushes)	19.00	minutes

**PAY AS YOU SAVE  
FULLY INSTALLED, SERVICED &  
GUARANTEED.  
OR  
SUPPLY ONLY.**

**Monthly Pay As You Save - Savings ££**

Current System Monthly Operating Costs	£ 5,198.23	
New Smarti Monthly Operating Costs	£3,168.46	
<b>Inc Installation and Service PAYS</b>		
<b>Monthly Operating Cost Saving</b>	<b>£ 2,029.77</b>	← Rounded to 2 decimal places for calculation purposes.
<b>Monthly Operating % Saving</b>	<b>39.05%</b>	
First year saving	£24,357.29	
<b>Total cumulative 3 year saving</b>	<b>£73,071.88</b>	
CO2 emission reduction	16,486	kgCO <sub>2</sub> saved per annum
	49,458	kgCO <sub>2</sub> saved per 36 months

**Water Usage**

Number of Flushes per Day **76**

Per Day	42.331	cubic metres
Per Quarter	3862.676	cubic metres
Per Annum	15450.704	cubic metres

**Water Costs ( including sewerage charge)**

Customer specific charge (if known) **400** pence/cubic metre

OR.....

Water & Sewage EST Discounted.  pence/cubic metre

Your yearly Metered Urinal Cost for all washrooms **£61,803**

**Current annual call out/maintenance charges.**

Current urinal maintenance costs £/HR	12	576	£ per annum
Number of estimated call outs/annum	24	Based on 2 callouts per month/washroom	
Number of estimated call out hours/annum	48		
<b>Current Total Est. Operating Cost per annum</b>		<b>£62,379</b>	

**Smarti New Costs**

Number of Valves replaced in every urinal/Yr **3** useage - low (2); medium (3); Max (4)

New Smarti Annual Costs inc. install, consumables, service visits & performance guarantee.	Total	<b>1548</b>	All Valves supplied and included in price.
		<b>£38,021.52</b>	

**Supply Only - All parts & Consumables Savings ££**

First year saving	£40,211	
Second year saving	£44,342	
Third year saving	£44,342	
<b>Total cumulative 3 year saving</b>	<b>£128,895</b>	
CO2 emission reduction	16,486	kgCO <sub>2</sub> saved per annum
	49,458	kgCO <sub>2</sub> saved per 36 months

**Finance - "Pay as you Save" - Or Supply Only.**

Total capital expenditure	0
Smarti Monthly payment - Pay As You Save	£3,168.46
Smarti Supply Only Total Costs for Year 1	£22,168.16
Year 2	£18,036.50
Year 3	£18,036.50
Term (Months)	36

**Water saved/36 months/Litres** 46352110.74 Litres water Saved

**Input data**

**Output / Results**

**Flushing Cycle Calculation - Optional**

	working	hol's/weekends
Number of days	365	0
Number of flushes per day	76	0
Flushing Cycle (minutes between flushes)	19	0
Average Flushing Cycle (minutes between flushes)	<b>19.0</b>	

