



eco-beta WC Water Savings

Key Assumptions

- WC's typically only require a full flush around 20% of the time
- Users can choose a small flush (the default) or a full flush each time they flush
- The default small flush uses 1/2 the cistern volume. A typical cistern size is 7 or 9 litres, therefore on average, 4 litres of water is saved every time the small flush is used
- Installation of the system costs £40 per unit (*volume discounts available*)
- Average Water Cost of £2.00 per cubic metre has been used for calculation purposes

Usage Profile - 5 Days per week

Facility used 5 days per week / 260 days per year

Assuming 20 Small Flushes Daily						
	Water Saved p.a. (m3)	Utility Savings p.a.	One Off Cost	Net Saving Year 1	Payback (months)	Net Saving 3 Years
1 WC	21	£42	£40	£2	11.5	£85
50 WCs	1,040	£2,080	£2,000	£80	11.5	£4,240
500 WCs	10,400	£20,800	£20,000	£800	11.5	£42,400

Assuming 30 Small Flushes Daily						
	Water Saved p.a. (m3)	Utility Savings p.a.	One Off Cost	Net Saving Year 1	Payback (months)	Net Saving 3 Years
1 WC	31	£62	£40	£22	7.7	£147
50 WCs	1,560	£3,120	£2,000	£1,120	7.7	£7,360
500 WCs	15,600	£31,200	£20,000	£11,200	7.7	£73,600

Assuming 40 Small Flushes Daily						
	Water Saved p.a. (m3)	Utility Savings p.a.	One Off Cost	Net Saving Year 1	Payback (months)	Net Saving 3 Years
1 WC	42	£83	£40	£43	5.8	£210
50 WCs	2,080	£4,160	£2,000	£2,160	5.8	£10,480
500 WCs	20,800	£41,600	£20,000	£21,600	5.8	£104,800

Usage Profile - 7 Days per week

Facility used 7 days per week / 365 days per year

Assuming 20 Small Flushes Daily						
	Water Saved p.a. (m3)	Utility Savings p.a.	One Off Cost	Net Saving Year 1	Payback (months)	Net Saving 3 Years
1 WC	29	£58	£40	£18	8.2	£135
50 WCs	1,460	£2,920	£2,000	£920	8.2	£6,760
500 WCs	14,600	£29,200	£20,000	£9,200	8.2	£67,600

Assuming 30 Small Flushes Daily						
	Water Saved p.a. (m3)	Utility Savings p.a.	One Off Cost	Net Saving Year 1	Payback (months)	Net Saving 3 Years
1 WC	44	£88	£40	£48	5.5	£223
50 WCs	2,190	£4,380	£2,000	£2,380	5.5	£11,140
500 WCs	21,900	£43,800	£20,000	£23,800	5.5	£111,400

Assuming 40 Small Flushes Daily						
	Water Saved p.a. (m3)	Utility Savings p.a.	One Off Cost	Net Saving Year 1	Payback (months)	Net Saving 3 Years
1 WC	58	£117	£40	£77	4.1	£310
50 WCs	2,920	£5,840	£2,000	£3,840	4.1	£15,520
500 WCs	29,200	£58,400	£20,000	£38,400	4.1	£155,200