

Water efficiency case study

Clearwater Court bathrooms

Reduced water use by 83%

Two bathrooms will save >600K litres per year

Potential savings for Clearwater Court = 4.8ML per year

Background

In June 2015, we started a water efficiency trial at our Clearwater Court office in Reading. The aim was to develop a best practice bathroom case study for business customers. We made the following changes in a men's and women's bathroom;

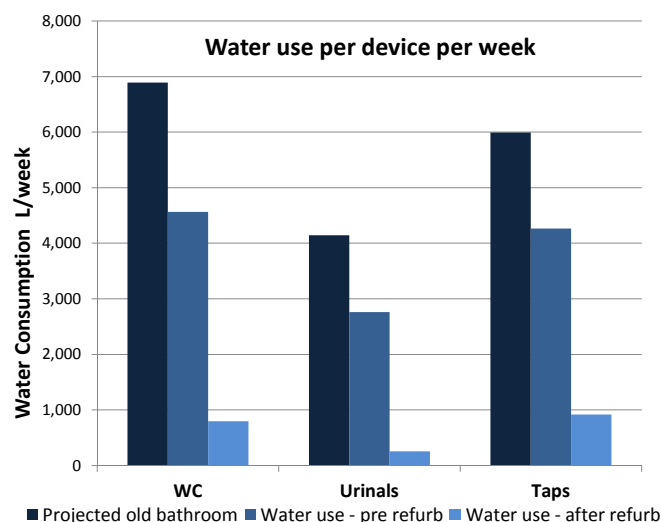
- Replaced the existing dual-flush WCs with Propelair – using only 1.5 litres per flush.
- Replaced existing non-concussive taps with Cistermiser sensor taps, set at 3.5l/min flow rate, and 3-8 secs duration.
- Replaced the existing urinal sensors with Cistermiser sensors set at 0.5 litres/flush, 6 flushes/hour, 7 days a week

We installed water meters on all hot and cold pipes to capture before and after usage results.

The Results

The bathroom refurbishment achieved an overall water saving of 83 per cent – 11,636 litres per day based on average use or over 606,000 litres per year.

The Propelair toilets reduced water use by 80.7 per cent, the sensor taps 59 per cent and the urinal sensors 90.7 per cent compared with the previous fittings. These reductions in water use equate to an average of more than 3,000 litres per person over a year. Given that the previous fittings were considered efficient, the refurbishment represents a vast improvement.



If all of the Clearwater Court bathrooms were refurbished using Propelair toilets, sensor taps and urinal sensors, it could save 4.8 million litres of water per year – a projected annual cost saving of £9,950.

