

Cost Savings... €2000 / Annum
 Investment..... €350
 Payback..... Under 3 months

Environmental Benefits:

- Water reduced- 830m³/pa

Water efficiency programme saves €2,000.

REVOLUTION BAR & GASTROPUB, WATERFORD.



Description of Property

The Revolution Bar and Gastropub is a busy modern bar and night-club in the heart of Waterford City. This bar is renowned for its great food service. The Revolution Bar is a member of the Green Hospitality Programme since 2011.



Summary of Project

Water costs are a significant cost for the bar and restaurant sector, with up to 55% of these costs associated with water used for flushing toilets and urinals. In 2010, when the bar was undergoing some renovation work, the owner decided to take measures to reduce water consumed in toilets.

Toilet cisterns

During the renovation work the 14 old toilet cisterns, which had a flush volume of 10 litres were replaced with new cisterns that had a flush volume of 6 litres. With an average 840 flushes per week and 43,680 flushes per year, this retrofit measure reduced water consumption by 174,720 litres/ annum. This reduction in water use by 174 m³ saved the owner €408 per year.

Urinals

Like most urinals, urinals in the Revolution Bar were set to flush their 15 litre cisterns every 15 minutes, 24 hours a day. This results in 525 tonnes of water being flushed down the drain each year for each set of urinals, at an approximate cost of €1,200.

The Revolution Bar controlled this wasteful flushing by installing a Passive Infrared Detector (PIR) on 2 sets of on the urinals, which reduced flushing by 70%. The PIR ensures that urinals only flush when toilets are occupied.



The Result

The original urinal settings were consuming 1,051 cubic meters of water per year. The new PIR system reduced this by 657 cubic meters of water savings of €1,544 per year on water costs. The new PIR system cost €350 to install giving a payback period of just under 3 months. Changes to the urinals and toilets reduced water costs by €2,000/ annum.



TOP TIP - Urinal flushing should be linked to toilet occupancy. Uncontrolled urinal flushing 24 hours per day is a needless waste of potable water and is equivalent to 'a leak by design'.

