

Cost Savings... €1,540 / Annum

Investment..... €350

Payback..... Under 3 Months

Environmental Benefits:

Water reduced: 657m<sup>3</sup> p.a.

## Urinal Control Saves €1,540 for Bar/Restaurant Per Annum

### 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. The Revolution Bar has been a member of the Green Hospitality Programme since 2011.



#### Project Description

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 control urinal flushing.

Like most urinals, those in the Revolution Bar were set to flush their 15 litre cisterns every 15 minutes, 24 hours a day. This results in 525 tonnes m<sup>3</sup> 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 urinals, which reduced flushing by 70%. The PIR ensures that urinals only flush when toilets are occupied.



#### The Results

The original urinal settings were consuming 1,051m<sup>3</sup> of water per year. The new PIR system reduced this by 657m<sup>3</sup> of water saving €1,544 per year on water costs. The new PIR system cost €350 to install, giving a payback period of just under 3 months.

#### Toilet cisterns

In addition 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 m<sup>3</sup> saved the owner €408 per year.



**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'.**



*After looking at our business with power and water in mind, we have reduced our overall utility bills by nearly 40% with 3 simple steps: Investment in new equipment, staff awareness, lighting control.*  
Jim Flash Gordon - MANAGER