



**Cistermiser**  
OUR WORLD IS WATER

## Infrared Control (IRC®) Urinal Flushing Valve



Cistern-flushing urinal control valve  
with motion-sensing infrared and robust  
brass-bodied solenoid valve assembly



## The market-leading Infrared Control (IRC®) urinal flushing valve from Cistermiser automatically manages the supply of water to a urinal cistern. The PIR sensor detects movement and activates the solenoid valve, allowing water into the cistern.

And now the best is even better. Incorporating the same proven and robust brass valve, new features include a stylish and compact body shape, an economy mode option to provide even greater water savings and a design which allows easy-to-use battery replacement.

End-user clients can now replace batteries with ease, by simply removing the front fascia.



### Reduces water consumption by over 80%

- ✓ The ideal valve for control of cistern-fed urinals.
- ✓ Normal or Economy mode options.
- ✓ Ensures compliance with the Water Regulations.
- ✓ On DEFRA's Water Technology List; purchase and installation are tax deductible.
- ✓ Battery or mains powered (no external transformer required). IRC® can use batteries as back-up power to mains supply if required.
- ✓ Pipe, wall or ceiling mounted sensor: surface mounted or recessed.
- ✓ Can be concealed to reduce the risk of vandalism.
- ✓ Visible LED status indicator and low battery alert.



## How it works

The Infrared Urinal Flush Control (IRC®) consists of a solenoid valve and the sensor module.

The solenoid assembly is plumbed in on the water supply to the urinal cistern. The connection to the infrared sensor is made either by directly mounting the sensor module on to the solenoid or by using the 'floating socket' supplied for a remote mounting.

When the IRC® detects movement in the washroom, a pulse from the sensor opens the normally-closed solenoid valve and water flows to the cistern. The LED flashes to show the valve is open.

In **Normal mode**, the IRC® operates with a 30 minute cycle. This means that the cistern will flush a maximum of 2 times per hour.

If the sensor detects no occupancy in 12 hours it will automatically open the valve for 30 minutes to allow one flush of the cistern to rinse the urinals and pipework.

The sequence is designed to maximise battery life, giving approximately 3 years' life from one good quality set of batteries.

In **Economy mode**, an additional delay of 15 minutes is provided before the Normal mode operating cycle is activated, to save even more water. This means that the cistern will flush a maximum of 2 times in 90 minutes.

Urinals often flush regardless of use, wasting a lot of water, especially out of hours. Installing a Cistermiser IRC® valve can save on average 129,600 litres of water per year and reduce costs by up to £386 per urinal bowl.

## Product Details

PIR sensor unit: Contained within a white moulded ABS case designed to fit directly on to the solenoid valve assembly for surface mounting. Front access to the battery compartment. Rear access to terminals for a 230V mains power supply to the integral transformer and the 6V DC output to the solenoid.

- Product code:** IRC2
- Dimensions:** 85 x 85 x 68mm (W x H x D) including the sensor lens.
- Range:** 125° infrared detection, spanning 9.2 metres at floor level with a maximum height detection range of 2.5 metres.
- Voltage:** 6V DC nominal 5µA, peak 750mA, for 50ms
- Mains supply:** Nominal 230V +/- 10% AC 50hz 20mA
- Battery supply:** 6V from 4 x 1.5V alkaline AA (LR6) batteries.
- Solenoid valve:** 6V latching valve, UK WRAS approved. One valve per sensor unit.
- Water supply:** 0.1 to 6 bar pressure range. Integral slow-fill flow regulator. If supply pressure is above 6 bar, fit a pressure reducing valve.
- Warranty:** 12 months product warranty from date of manufacture. This can be extended within one year of date of manufacture, at no cost, to 3 years from the date of installation by following the registration procedure.

Pressure Bar	Max Flow Litres per minute
6	3.7
2	2.2
0.1	0.7

A cutting template and mounting bracket is included with every IRC<sup>®</sup>, for easy-fitting into ceiling tiles or cavity walls.



## Specification

- The installer shall supply and install a urinal flushing device of the 'Cistermiser IRC' type on the supply pipe to the urinal cistern, as shown on the drawing.
- The flushing control device shall consist of a PIR sensor with a control unit and a solenoid valve with integral flow regulator.
- The flushing control device should have a hygiene flush function for periods of low use.
- The flushing control device shall be suitable for supply system pressures of between 0.1 and 6.0 bar.
- The flushing control device shall be suitable for connection to either 230V, 50 Hz single phase supply with battery back-up, or powered by 4 x 1.5V alkaline AA batteries of type LR6.
- The flushing control device shall provide access to batteries without the need to de-mount the sensor.
- The flushing control device shall have provision to be mounted directly on the pipework or remotely using the flush mounting bracket supplied.
- The above flushing device shall be as manufactured by: Cistermiser Limited, Unit 1, Woodley Park Estate, 59-69 Reading Road, Woodley, Reading RG5 3AN. Tel: 0118 969 1611.



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