

easyflush direct

infrared sensor activated
mains flushing for WCs



- No cistern required – save space
- No inlet valves – reduced installation cost
- No cistern refill – immediate re-flush for busy areas
- Infrared sensor operated
- Hygiene flush to maintain cleanliness
- Range of flow rates
- Compliant with Water Regulations. WRAS approved.

easyflush direct is an electronic flushing system for WCs that removes the need for a WC cistern, by taking its water feed straight from the mains supply.

This means there is no cistern to be refilled and a second flush can be activated without a delay. A hygiene flush can also be activated to maintain the cleanliness of the WC.



effective flushing

To achieve an effective and efficient flush the water system needs to deliver at least 90 lpm (litres per minute). Typically this would require that the dynamic water pressure, measured before the valve, is at least 2bar. If 90 lpm cannot be achieved, the flush will be less effective and a longer flush duration or multiple flushes may be required. This can result in water wastage.

If the water flow rate exceeds 150 lpm, splashing from the WC bowl may occur. **easyflush direct** is fitted with a flow regulator that will limit the flow rate to 100 lpm. However, additional flow regulators for 90 lpm and 125 lpm are included, to regulate the flow rate further, if required.

These flow regulators are coloured coded:

- Dark blue: 90 lpm
- Black: 100 lpm (fitted as standard)
- White: 125 lpm

NOTE: Some WC bowls are designed for low volume flushing and an effective flush can be achieved at low flow rates.

Please check with the WC bowl manufacturer. The flow regulator can be removed to maximize flush performance but this can lead to excessive water use.

product description

- **easyflush direct** includes a valve, DC pipe interruptor and sensor. When the sensor is activated, the valve is activated for between 2 and 3.5 seconds, supplying water to flush the WC direct from the mains water supply. After this period the valve closes and the flush is complete, but can be activated again immediately.
- There are two versions to suit different applications:

easyflush direct wave

is operated by the user bringing their hand towards the infrared sensor. A part flush is triggered by holding one's hand in place near the sensor for about 1 second and a full flush is triggered by a slightly longer hand pass.

easyflush direct walkaway

is activated when the user stands up or leaves the cubicle but it can also be activated by the user bringing their hand toward the sensor. A part flush is triggered by short user occupancy and a full flush by long user occupancy (over 45 seconds).



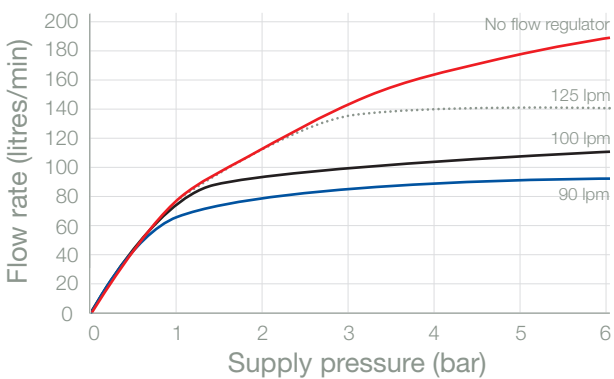
The flush volume is determined by the flush duration and the flow rate of the water supply. Using the flow regulators and adjusting the flush duration, will allow you to configure the flush performance. However, this will differ based on the WC bowl design.

The flow rate can also be reduced by turning the adjuster screw in the middle of the valve (clockwise to reduce flow) or by fitting a third party pressure reducing valve above [easyflush direct](#).

Ensure that the dynamic water pressure (pressure measured while the valve is open and water is flowing) is sufficient to achieve the required flow rate.



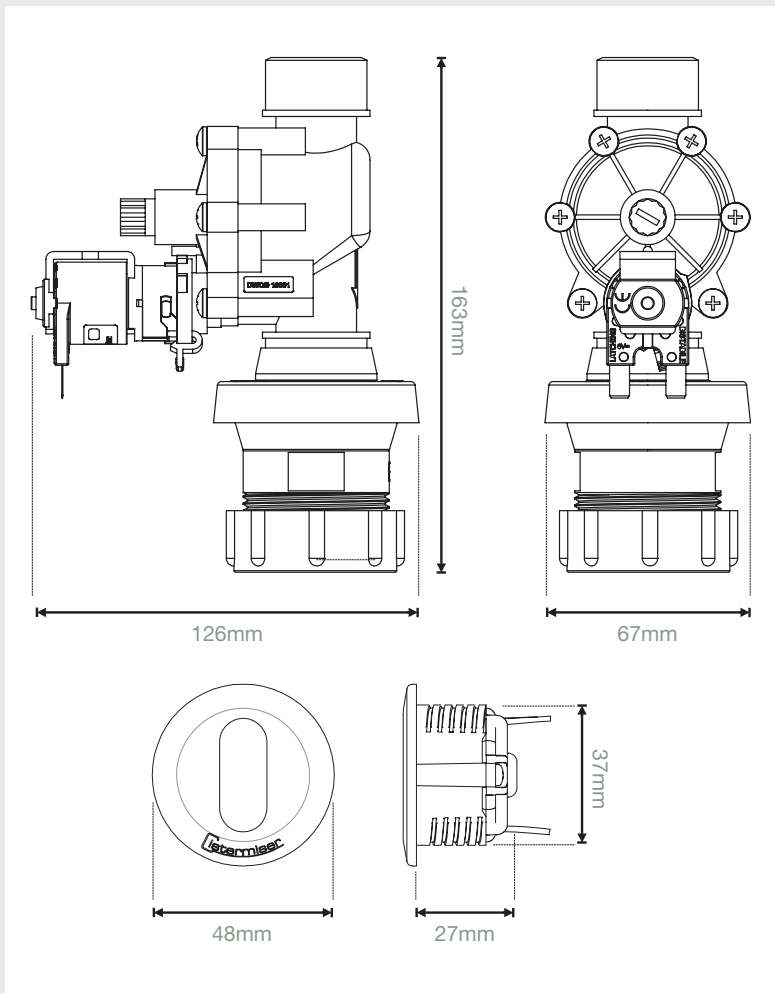
The graph below shows the approximate flow rates at a range of dynamic pressures.



- 90 lpm
 125 lpm
- 100 lpm
 No flow regulator



installation options



- **easyflush direct** is powered by a 6V DC mains adaptor which can be installed behind service panels.

Also available as an optional extra is a multi-product mains power supply unit (**PSUC**) to power up to 20 sensors from a single fused spur.

DC pipe interrupters

easyflush direct introduces an air gap into the water system. Care must be taken that pipework design and WC bowl selection is appropriate to ensure sufficient flow to flush the WC while preventing water flowing out of the air gap. This can occur when back pressure is high, caused by a restrictive connection to the WC.

The valve should always be installed as high as possible on the vertical pipe feeding the WC bowl flush inlet to prevent water backing up and leaking from the DC pipe interrupter. When installing the valve it is good practice to ensure there is an accessible isolation valve upstream of the valve. Ensure flow rate at valve does not exceed the flow rate to the WC bowl, to prevent water backing-up to the DC pipe interrupter.

easyflush direct is supplied with a DC pipe interrupter and a 1.5" flush pipe fitting.

Fit the DC pipe interrupter to the valve outlet ensuring the rubber seal is in place.

If the DC pipe interrupter is not required, fit the 1.5" flush pipe fitting to the pipe outlet in place of the DC pipe interrupter. Fittings are supplied to connect to a 38mm (1.5") flush pipe.

NOTE: Ensure the DC pipe interrupter is fitted a min of 300mm above the spill over point of the WC bowl.

specification wording

easyflush direct flush valve

The mechanical contractor shall supply and install a no-touch dual flush, sensor operated flush.

The unit will be of a dual flush capability from one sensor and the flush volume will be adjustable both for part and full flush functions.

The sensor will be programmable for operating range, part flush and full flush operation (default is for part flush to be active).

The unit should also incorporate a cleaner's function to minimize water usage during routine cleaning operations.

The programming can be carried out manually by hand or by means of the Infrared Control Unit (not supplied).

The unit should have a periodic hygiene flush function to ensure facilities are kept in a clean and hygienic condition.

For multiple product installations the device is to have the option of being installed with a common power supply unit PSUC capable of powering several units from one 230V fused spur.

The WC flushing valves should be the **easyflush direct wave** or **walkaway** no touch mains flushing WC valve as manufactured by: Cistermiser Limited
Unit 1, Woodley Park Estate, 59 – 69 Reading Road,
Woodley, Reading, RG5 3AN Tel: 0118 969 1611

product codes

easyflush direct wave:

EFD

easyflush direct walkaway:

EFD/Walk