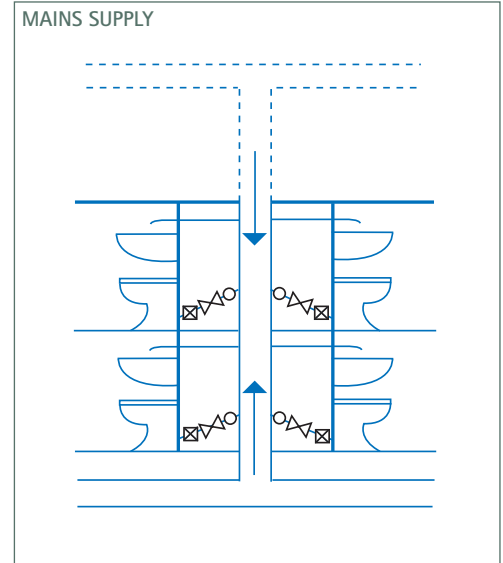
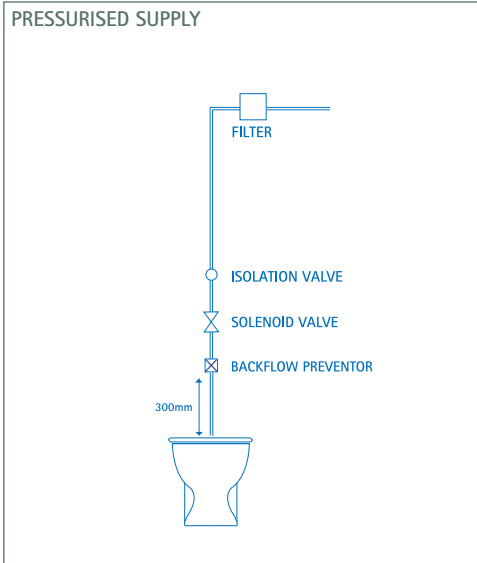


Electronic Flushing Systems for Direct Mains Fed or Pressurised Water.

ECO-Logic Flushing Systems do not require cisterns and therefore save pipework, space and money. ECO-Logic flush valves are installed directly onto mains water supplies or pressurised systems to the WC pan or urinal (see diagram opposite and page 2).

ECO-Logic Multi-Channel Controllers and Sensors are hygienic and efficient for single or multiple WC and urinal installations, with vandal resistant and high security fixing options. The sensor is linked to the flush valve which releases water on demand and timings are set on the Controller.



Function

Users activate the ECO-Logic flush sensors, which are cable connected to the ECO Controller, then onto the flushing valve. The flush volume/time, mode of operation, lockouts and anti-tamper controls are setup on the Controller to building management requirements. When activated, the flush valve opens and closes to those settings.

Flush times are simple to set using rotary switches. Timing can reflect water pressure at discharge point, sanitaryware design (i.e. low capacity pans) and can be adjusted to meet changes in water regulations.

An optional ECO Blockage Alert can be fitted to the WC/Urinal waste pipe which prevents flushing when a blockage is detected, avoiding flooding of contaminated water and maintaining hygiene standards. A warning light, alarm or BMS signal notifies management. After clearing the blockage, the system is restarted using a reset button.

ECO-Logic Controllers

ECO Controllers provide the link between the sensors, valves and outlets. Flow/flush times, operational modes, temperature monitoring, lockouts and anti-tamper controls can all be set on the Controller.

Controller choice depends on several factors and early consultation with ECO-Logic is recommended.

Single Controllers

- some integrated with a sensor.

Multi-Channel Controllers

- to control banks of the same item.
- to control a number of different outlets. Typically in a bathroom with a WC, Basin and Shower.

Modular Controllers

- offering total management controls for accommodation or washrooms. Can include water, heating, lighting, communication, audio/visual and security systems. All with BMS links.

Features and Benefits

- Enables rapid, repeat flushing for busy toilets.
- Fully compliant with flushing regulations.
- Does not require local WC cisterns or flushing tanks, releasing space behind WC's.
- Increases security and reduces flood risk.
- Allows concealment of pipework and controls.
- Reduced pipework allows faster installation and maintenance.
- 6vDC safe battery power or reduced mains power via an ECO-Logic transformers with battery back-up.

Optional ECO-Logic Links

- Blockage Alert Systems provide security and maintenance benefits.
- BMS System links.

Sensor Type	ECO-Logic System	Application	Notes
Non Touch	Trans Sense	WC <input type="checkbox"/>	Fully concealed sensor system, installed behind finished surfaces or urinal bowl, offering high vandal resistance and simple installation. Light touch operation also available.
		Urinal <input type="checkbox"/>	
	Infra Sense	WC <input type="checkbox"/>	Disc or plate mounted sensor. Usually close proximity sensing with variable range settings.
Urinal <input type="checkbox"/>			
Passive Infra Red (PIR)	WC <input type="checkbox"/>	Ceiling or wall sensors, for flush control to banks of urinal bowls, troughs or stalls. Operates only when it senses user activity. Duty Flush settings.	
	Urinal <input type="checkbox"/>		
One Touch	Trans Sense	WC <input type="checkbox"/>	Fully concealed sensor system, installed behind finished surfaces or urinal bowl. Light touch sensors, offering high vandal resistance.
		Urinal <input type="checkbox"/>	
Touch Sense (TS) or React Sense (TA)	WC <input type="checkbox"/>	Touch sensors are solid state with no moving parts. React sensors have a light press action.	
	Urinal <input type="checkbox"/>		

* Products are available, but usually for overseas markets. Please contact info@ecologicuk.com for more info.

Electronic Flushing Systems for Direct Mains Fed or Pressurised Water.

Plumbing

Water pressures from mains supply or pressurised systems must be stabilised to enable ECO-Logic Controllers and Valves to deliver accurate volume control. Cold water pipe sizing needs to address heavy water demand if a number of WCs, urinals or basins are used at the same time i.e. schools, stadiums, factories. In these installations dedicated water tanks, local tanks, or ECO Pipetanks are beneficial (see W11 & 13).

To comply with water regulations, supplies to each WC/Urinal will require a backflow prevention fitting. Alternatively, banks of WCs and urinals can link to common supplies with RPZ valves.

ECO WC Pipe Interrupter 256A-025

ECO Urinal Pipe Interrupter 256A-015

If installed with brass Solenoid Valves a check valve should be fitted before the Solenoid Valve.

Electronics

ECO-Logic systems use 6vDC technology supplied by long-life 6vDC lithium cell batteries or 230v/6vDC transformers with automatic battery backup should mains power fail. Power demand for ECOTrans transformers is 230v.

ECO-Logic can offer a pre-assembled wiring loom between Controllers, sensors and valves with easy snap-lock sockets and relevant labels attached. This optional facility offers time and cost savings for installers and maintenance teams.

Related Product Sheets

One Touch Sensor	WC EW21TS or EW24TA	W19
Non Touch Sensors	WC ECO Trans Sense EW23CT	W18
	WC ECO Infra Sense EW22IR	W20
Flushing Systems	Tanked Supplies	W11
	ECO Pipetanks	W13
ECO Transformers	230v/6vDC and 50HZ	TR15
Secure Sanitaryware	Heavy Duty Polymer	POL16
	Stainless Steel	ELC17
Other Fittings	1"/1 1/4" Lever Action Isolation Valve	
	Backflow Prevention ECO256A Type DC	

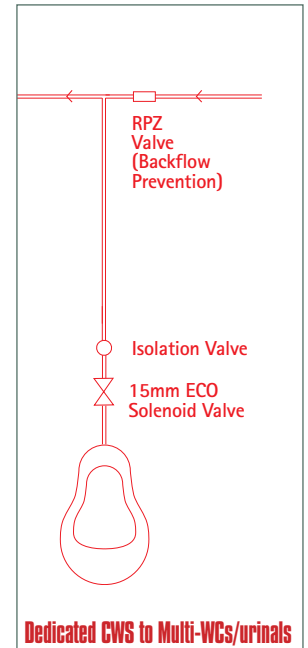
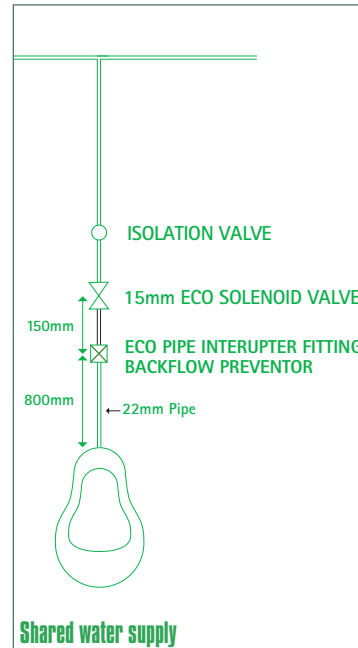
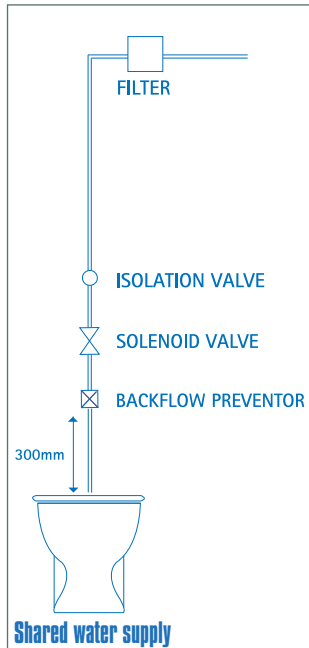
ECO-Logic provide solutions for:-

Handwashing • Bathfills • Showering • Flushing • Kitchens

Multi-Channel & Modular Controls for Ensuite Bathrooms & Washrooms

Secure sanitaryware • Lockout Systems • Shutdown Controls • BMS Links

Download at www.ecologicuk.com



ECO Solenoid Valves

ECO-Logic supply various solenoid valves.

WC Flushing

ECO 35P (0.05 to 1 bar) c/w isolation/flow adjusters.

ECO 28P (0.5 to 6 bar) c/w isolation/flow adjusters.

ECO D8 – 35mm (0.05 to 3.0 bar) Low Pressure

ECO D4 – 28mm (0.05 to 3 bar) Low Pressure

ECO D4 – 28mm (0.35 to 6 bar) High Pressure

Urinal Flushing

ECO 02-15mm (0-12 bar) High Pressure Cistern Fill

ECO 04-15mm (0-5 bar) Low Pressure Cistern Fill

ECO 15 (0-6 bar) Urinal Bowl

Warranties

ECO-Logic Controllers and Sensor Electronics 2 years

ECO-Logic Solenoid Valves (Strainer Protected) 2 years

Brassware and other fittings 1 year

All ECO electronic products are designed, tested and manufactured in the UK to CE standards

Maintenance

Replacement parts, batteries and service kits are available direct from ECO-Logic UK.

Allow for access to Sensors, Solenoid Valves & ECO Controllers.

Maintenance requirements are very low. All product warranties are dependent on fittings being installed in accordance with ECO-Logic instructions.

Battery life usually between 3 – 5 years (not Infra Red). Battery in ECOTrans transformers should last up to 10 years, depending on usage.

ECO-Logic Controllers have a non-volatile memory which retains setup programmes if power is lost or switched off for maintenance.

Solenoid Valves should be installed with service valves and strainers to allow inspection, and cleaning.

Spares advice on individual products are provided in ECO-Logic maintenance manuals.

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