

product range

2012



Cistermiser has been designing and manufacturing a range of high quality cost effective, water efficient products for over 30 years.

The company developed its first product, a hydraulic urinal flush control valve, in 1976 at a time when there were no regulations stipulating that companies had to minimise water consumption in the washroom. The desire to conserve water and promote washroom hygiene is the key driver of Cistermiser's ongoing investment in new product development.

Two low pressure derivatives of the hydraulic valve were developed during the 1980s before the company added its first domestic product, a limescale prevention device called Combimate, to its range in 1987. Investment in R&D led to the development of electronic technologies and the company launched a complete washroom control and the Infrared urinal flush control valve in the early 1990s.

In recent years, the company's product portfolio has expanded into all areas of the washroom with the addition of a WC flushing device, a mains-flushing urinal control, a complete anti-vandal range and a series of infrared taps.



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Cistermiser Ltd is a subsidiary of Davidson Holdings Ltd. Davidson also owns Keraflo Ltd, the brand leader in the manufacture of delayed action float valves and Salamander Pumped Shower Systems Ltd, a leading manufacturer of shower and whole-house domestic water pumps.



hydraulic valve

urinal flush control valve

reduces water consumption
and washroom odours



The **hydraulic valve** is an automatic urinal flush control valve. The valve uses a simple patented mechanism which prevents water waste by ensuring that the auto-flush cistern is only filled, and can only flush, when the washroom is used.



- Automatic urinal flush control
- Unique patented hydraulic mechanism – no electrical supply or batteries required
- Industry leader with half a million already installed
- ‘Fit and Forget’ quality and reliability
- Hygiene flush option for periods of non-use
- Ensures compliance with the Water Regulations
- On DEFRA’s ECA Water Technology List; purchase and installation is tax deductible

how it works

The Cistermiser **hydraulic valve** is installed on the supply pipe to the urinal cistern. The valve is activated by short-term pressure drops created by use of taps or WCs on the same supply.

The valve is normally closed; when it is activated it opens and water passes to the urinal cistern until the pressures on both sides of the valve are equalised. When the cistern is full the auto-siphon will flush.

irc valve

infrared urinal flush control valve



reduces water consumption
by up to 80%



The **infrared urinal flush control (IRC)** valve automatically manages the supply of water to a urinal cistern. The PIR sensor detects movement and activates the solenoid valve allowing water into a urinal cistern.



- Ensures compliance with the Water Regulations
- Can be concealed to reduce the risk of vandalism
- Mains or battery powered option in the same box: no external transformer required
- Pipe, wall or ceiling mounted sensor: surface mounted or recessed
- On DEFRA's Water Technology List; purchase and installation is tax deductible

how it works


The **infrared urinal flush control (IRC)** consists of a solenoid valve and the sensor module.

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; at the same time the sensor is switched off.

After 25 minutes the power is restored to the sensor and as long as no movement is detected for 5 minutes, the solenoid valve closes, shutting off the water.

direct flush

urinal flush valve




the cost effective solution to maximise urinal hygiene and water economy



direct flush is an infrared sensor controlled urinal valve.

The **direct flush** automatically flushes the individual urinal after use, ensuring the highest level of hygiene from the minimum volume of water supplied directly from the mains. **direct flush** removes the need for the auto-flush cistern and associated plumbing used in traditional urinal installations, which flush all urinals intermittently even if they have not all been used.





- Designed for urinals flushing directly from cold water supply
- No cistern required
- Only flushes urinal bowl after use
- Vandal-resistant – valve totally concealed
- Hygiene flush for periods of non-use
- Adjustable flush duration and range
- Mains and battery powered options included
- Ensures compliance with Water Regulations
- BREEAM Wat1 compatible product
- On DEFRA's ECA Water Technology List; purchase and installation is tax deductible

how it works

The **direct flush** infrared sensor detects the user at the urinal bowl and flushes after a 2 second delay once the user departs. The LED flashes green every 3 seconds whilst a user is detected.

If a user is detected whilst the water is flushing, the flush is automatically arrested to prevent splashing and wastage. During the flush, the LED flashes green once a second.

The flush duration is adjustable which ensures that only the minimum amount of water necessary is used.

If there has been no use of the urinal for 12 hours, the **direct flush** automatically runs a hygiene flush to prevent odours and the build up of uric acid in the pipework.

av urinal

touch activated washroom water control with no moving parts

vandal-resistant touch controlled water delivery to washroom urinals



Our **av urinal flush control valve**, part of the Cistermiser av range, is a specialist vandal-resistant, touch-activated washroom control for use in high risk or demanding public environments such as prisons, secure hospitals, schools and sports facilities.



- Programmable (adjustable) flow duration
- Ligature-resistant touch button
- Low voltage operation from power supply with battery back-up
- Robust piezo touch button
- 12 hour hygiene rinse option
- Anti-flood feature
- Master control remote disable function
- BREEAM Wat1 compatible product

how it works

The user interface is a stainless steel encased piezo touch button which is fixed flush with the mounting surface. When touched, the button causes an electronically operated valve to open and allow water to flush your urinals.

The flow duration for each outlet is programmed on installation. If the user touches the button for a second time, within the programmed flow period, water flow is stopped at once.

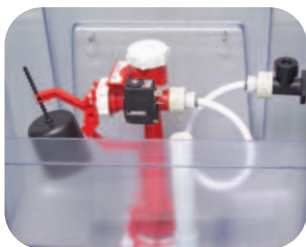
There are no moving parts within the piezo touch button. The buttons are hard-wired to the AV six channel controller, which controls the outlets.

Each unit can control up to six valves and each piezo touch button controls one outlet.

easyflush

wc flush valve

hands-free and water-conserving wc cistern flush valve



easyflush is suitable for concealed or exposed cisterns.

easyflush is easy to install in retrofits or new installations. It can also be supplied complete with its own cistern. The **easyflush** no-touch dual flush WC cistern valve promotes best practice in water economy and hygiene in domestic and commercial washrooms.



- Infrared sensor operated WC cistern flush valve
- Defaults to part flush of as low as 2 litres for maximum water savings
- No touch means no cross-contamination; hygienic
- Installer programmable flush volumes; improved water economy
- Flush (outlet) and delayed action fill (inlet) valves combined in one unit
- Available in active ('wave') or passive ('walkaway') mode
- Delayed action eliminates risk of wasted water
- BREEAM Wat1 compatible product

how it works

easyflush wave is operated by the user bringing their hand close to an infrared sensor. The dual flush mode enables the user to select either a part or full flush by the length of time their hand is in front of the sensor.

For a part flush the hand is waved in front of the sensor for up to one second and for a full flush over one second.

easyflush walkaway is normally activated by the user standing up or leaving the cubicle; however it can also be activated by the user bringing their hand toward the sensor.

The walkaway version comes with the dual flush factory programmed. A part flush will be delivered if the user departs from the cubicle within 60 seconds and a full flush will be delivered if the user departs after 60 seconds.

av wc flush

touch activated washroom water control with no moving parts

vandal-resistant touch controlled water delivery to washroom wcs



Our [av wc flush valve](#), part of the Cistermiser av range, is a specialist vandal-resistant, touch-activated washroom control for use in high risk or demanding public environments such as prisons, secure hospitals, schools and sports facilities.



- Programmable (adjustable) flow duration
- Ligature-resistant touch button
- Low voltage operation from power supply with battery back-up
- Robust piezo touch button
- 12 hour hygiene rinse option
- Anti-flood feature
- Master control remote disable function
- BREEAM Wat1 compatible product

how it works

The user interface is a stainless steel encased piezo touch button which is fixed flush with the mounting surface. When touched, the button causes an electronically operated valve to open and allow water to flush your WC.

The flow duration for each outlet is programmed on installation. If the user touches the button for a second time, within the programmed flow period, water flow is stopped at once.

There are no moving parts within the piezo touch button. The buttons are hard-wired to the AV six channel controller, which controls the outlets.

Each unit can control up to six valves and each piezo touch button controls one outlet.

infrared taps

novatap and novaspout



save water, promote hygiene and reduce maintenance costs

The **novatap** is a contemporary deck-mounted chrome basin spout with an infrared sensor, control unit and valve integral in its body, making it extremely simple to install.

The **novaspout** is an elegant panel-mounted polished stainless steel basin spout supplied with an infrared sensor control unit and valve.

The Water Regulations require that the flow rate of a tap does not exceed 3.6 litres per minute where basins have no plug. The 3.5 litres per minute model therefore ensures that this spout is compliant in such applications.



- Hands-free infrared basin spouts
- Automatic shut-off: no drips or taps left running
- Improve water and energy efficiency
- Easy to use: ideal for less-abled or elderly
- Hygienic: reduce risk of cross-contamination
- Available in 5 litres per minute and 3.5 litres per minute models
- Mains and battery powered options included
- Vandal resistant
- Easy to fit in new installations or retrofits
- BREEAM Wat1 compatible product

how it works

The flow of water from the **novatap** and the **novaspout** is turned on when the user presents their hands to the infrared sensor which is located on the lower section of the **novatap** body or is positioned below the **novaspout**. No contact is required. When the user's hands are moved away the flow of water stops after a 2 second delay.

av taps & showers

touch activated washroom water control with no moving parts

vandal-resistant touch controlled water delivery to washroom taps and showers



Our **av taps and showers** are part of the Cistermiser av range, a specialist vandal-resistant, touch-activated washroom control package for use in high risk or demanding public environments such as prisons, secure hospitals, schools and sports facilities.



how it works

The user interface is a stainless steel encased piezo touch button which is fixed flush with the mounting surface. When touched, the button causes an electronically operated valve to open and allow water to flow from a hand basin spout or shower head.

The flow duration for each outlet is programmed on installation. If the user touches the button for a second time, within the programmed flow period, water flow is stopped at once.

There are no moving parts within the piezo touch button. The buttons are hard-wired to the AV six channel controller, which controls the outlets.

Each unit can control up to six valves and each piezo touch button controls one outlet.

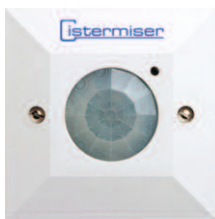
- Programmable (adjustable) flow duration
- AISI 316L stainless steel for maximum vandal protection
- Ligature-resistant outlet heads and touch button
- Low voltage operation from power supply with battery back-up
- Robust piezo touch button
- 12 hour hygiene rinse option
- Anti-flood feature
- Master control remote disable function
- BREEAM Wat1 compatible product

washroom control

electronic management system
for washrooms



prevent flooding in vacant
periods and reduce utility bills



The Cistermiser **washroom control** has been designed as a simple yet effective management system for controlling all primary services within the washroom.

Occupancy is constantly monitored by up to 10 PIR sensors strategically placed throughout the washroom. This ensures that the washroom services remain active when facilities are required and remain inactive when they are not.



- BREEAM compatible; credits under Hea 6, Hea 7, Ene 4 and Wat 4
- Handles input from up to 10 PIR sensors
- Controls supply of all water and electrical services: Hot water, cold water, lighting, ventilation, urinal cisterns and flushing and hygiene flush feature
- Ambient light sensor feature – lights only turned on when natural light levels require it
- Suitable for both male and female facilities
- Sensor can be mounted flush with ceiling
- Control box can be concealed or mounted discreetly
- Ensures compliance with Water Regulations

how it works

When someone enters the washroom all services controlled by the **washroom control** unit are activated; the hot and cold water solenoids open, lighting is switched on (if necessary), the extractor fans start turning and the internal timers begin counting. Every service system in the washroom is set to run for a fixed time or 'service cycle' which is determined by the installer. The PIR sensor(s) will remain active while the washroom is occupied and send signals to the power and solenoids to remain on and open respectively.

When the washroom is vacated the PIR sensor signals are no longer sent, the timers are not re-started and the **washroom control** sends no further output signals so the washroom services complete their service cycles and shut down.

If no movement is detected for 24 hours the cold water solenoid automatically opens for 30 minutes to activate a 'hygiene' flush through the urinals which prevents washroom odours and the build-up of calcium urate (uric acid) in the waste.

sensazone

water control for washrooms



the innovative solution to
washroom water wastage



sensazone is an intelligent PIR sensor which controls the water supply to the washroom with solenoid valves.

The sensor is ideally located at the entrance to the washroom. The solenoid valve(s) should be located at the entry point of the water supply to the washroom or as close as practically possible to the entry point to suit the pipe layout.



- Infrared sensor controlled washroom water shut-off unit
- Achieves BREEAM Wat 4 credit
- Eliminate the risk of washroom flooding due to accidental or deliberate vandalism
- Eliminate risk of water wastage due to defective washroom outlets
- Surface mounted; suitable for any ceiling type
- Hygiene flush
- Low voltage; low energy usage

how it works

On detecting movement the sensor sends a pulse to open the solenoid valve(s). After the pre-set run-on time (15 or 30 mins) the sensor will send a second pulse to close the valves.

When activated the LED will flash green once every 3 seconds and continues to do so for the full run-on duration. This indicates the valves are open.

The sensor will continue to search for occupancy while the valve(s) are open: if a user is detected, the timers are reset to zero.

If there has been no use of the washroom for 12 hours, **sensazone** will automatically complete a hygiene cycle. This is repeated every 12 hours.

av range

touch activated washroom water control with no moving parts

vandal-resistant touch controlled water delivery to all washroom outlets



Cistermiser's **av range** is a specialist vandal-resistant range of touch-activated washroom controls for use in high risk or demanding public environments such as prisons, secure hospitals, schools and sports facilities.



- Programmable (adjustable) flow duration
- AISI 316L stainless steel for maximum vandal protection
- Ligature-resistant outlet heads and touch button
- Low voltage operation from power supply with battery back-up
- Robust piezo touch button
- 12 hour hygiene rinse option
- Anti-flood feature
- Master control remote disable function

how it works

The user interface is a stainless steel encased piezo touch button which is fixed flush with the mounting surface. When touched, the button causes an electronically operated valve to open and allow water to flow from a hand basin spout or shower head or the flushing of a WC or urinal.

The flow duration for each outlet is programmed on installation. If the user touches the button for a second time, within the programmed flow period, water flow is stopped at once.

There are no moving parts within the piezo touch button. The buttons are hard-wired to the AV six channel controller, which controls the outlets.

Each unit can control up to six valves and each piezo touch button controls one outlet.

combimate

guaranteed prevention of
limescale and soft water
corrosion



combimate is a user-friendly
domestic limescale prevention
device that uses Combiphos.

Combiphos, a polyphosphate compound,
is 100% food grade material approved by
FAO/WHO and compliant with the
European normative standard (BS) EN
1208 that prevents scale build-up and soft
water corrosion in combination boilers and
other domestic hot water appliances.



- The installation of limescale prevention devices is a requirement under part L of the building regulations (where the hard water content is > 200ppm)
- Prevents limescale in hard water and soft water corrosion
- Keeps pipework clear and energy costs down
- Prevents 'brown' water, protects pipework and keeps maintenance costs down
- Compact, flexible and quick to install on vertical and horizontal pipework with top or bottom entry
- For single appliances or 'whole house' water supply
- Safe for drinking water and all domestic appliances
- 100% food grade material; FAO/WHO approved and compliant with EN 1208
- No maintenance. Easy annual Combiphos top-up
- WRAS approved

how it works

combimate is filled with the appropriate amount of Combiphos which, when in contact with water, is released in very small quantities sufficient to keep the mineral ions in suspension.

This action prevents the formation of scale while retaining the health benefits of the natural minerals contained in hard water. Combiphos coats the inside of the pipework, boiler heat exchanger and appliances with a non-residual, microscopic protective coating to prevent scale-causing minerals from accumulating and aggressive soft water from corroding the system and appliances.

Urinal flushing
WC flushing
Taps and spouts
Showers
Complete washroom management



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