



THORNE AND DERRICK UK – LEAK DETECTION
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healthcare



automated solutions for
healthcare washrooms



All of Cistermiser's healthcare products use no-touch infrared technology and therefore provide a completely automated solution for healthcare washrooms and help to reduce cross-contamination and infection.



Healthcare associated infections (HCAIs) in England are estimated to cost the National Health Service £1,000 million annually.

According to a report by the National Audit Office, improved hand hygiene is the primary action required to reduce healthcare associated infection.

Cistermiser understands the importance of hand hygiene within health care settings and has developed a range of infrared taps to help staff improve compliance with new guidelines. The range is also perfectly suited to patient and visitor areas within healthcare settings.

infrared taps

The **novatap** and **novaspout** are no-touch infrared deck and panel mounted basin outlets. They are activated when a user's hands are presented to the infrared sensor. The outlets are fully automated and are activated by the movement of the user's hands. Periodic hygiene rinses reduce the risk of microbial contamination such as legionella.

The **novatap** and **novaspout** automatically switch off two seconds after the user's hands are moved away, eliminating the wasted water from excessive run-on as happens with percussion ("push") or traditional taps. Both products are compliant with HTM64 and the 3.5l/min laminar flow outlet has been designed specifically for healthcare applications.





easyflush dual flush wc valves

The **easyflush wave** and **walkaway** valves provide no-touch flushing and filling of the WC. The **wave** is operated by the user passing their hand in front of the sensor while the **walkaway** is automatically activated when the user stands up or leaves the cubicle.

The **easyflush** valves include programmable part and full flushes, which minimises the amount of water used.

direct flush urinal flush control valves

The **direct flush** valves provide intelligent automatic flushing of each individual urinal after use, ensuring the highest level of hygiene from the minimum volume of water. The flush of water removes any waste immediately, eliminating the risk of undesirable smells.

Each flush only uses 0.5 litres of water. The valves are especially effective in reducing water wastage in washrooms with low frequency and irregular usage patterns.

case study – treloar college



location

Treloar College, for students aged sixteen or over, with physical disabilities, is specially designed not only to educate but also to help these young people to integrate into society. Situated in Holybourne near Alton in Hampshire, Treloar takes students from all over the country and provides a positive, supportive environment in which they can develop as adults. Students have a wide range of physical conditions including those that have an associated learning difficulty.

The college also caters for students with degenerative or life-limiting conditions. Many students who come to the college choose to board and because the halls are managed in a number of small units, staff and students have the opportunity to get to know each other well.

There are five halls of residence each with space for about thirty-two students and each hall has its team of highly qualified support staff.

the project

Brewer House was built in July 2008 and it includes a £3.5million hall with thirty en-suite bedrooms and three communal bathrooms. It was designed by Fleet architectural practice McAllen & Penfold and built by Wilding Butler Construction Ltd of Winchester. Cistermiser worked closely with the architects and assisted with the preparation of the specification to ensure the appropriate user-friendly equipment was specified. Cistermiser's Easyflush system was selected in 16 of the bathrooms.

the solution

This hands-free system completely eliminates the need to rotate a handle or apply pressure on a button. It has proved immensely popular in situations where elderly or less able people are involved and also in all sorts of public installations for its damage and vandal proof qualities.

Easyflush is a WRAS approved, hygienic and simple-to-use product that employs a single infrared sensor to operate a dual flush WC valve. The user needs only to pass his or her hand in front of the sensor for a part flush or hold it in front for more than a second to obtain a full flush.

A twelve hour hygiene flush is fitted as standard. The system conserves water as much as possible due to its default (programmable) part flush. In the case of the College, savings of 47% are expected both on costs and water consumption. The Easyflush units supplied were installed using battery power which makes them very quick to install and easy to maintain.

McAllen & Penfold then put Cistermiser in touch with Tom Dunsford of Accolade Building Services, who arranged a site visit, so that the optimum positioning of the cisterns to be used could be established. Cistermiser also tested one of the unusually small cisterns in their workshop to ensure that it was fully compatible with the Easyflush system.

This hands-on approach continued even after all the valves were installed. A representative of Cistermiser visited the College's Facilities Department, gave a short presentation on the Easyflush product and answered questions on a wide range of topics associated with the product. He also left a contact number so that Treloar College could phone him directly if any problems or questions arose. The Easyflush system is operating perfectly and has been greatly appreciated by the students. No direct phone calls have been necessary.



BREEAM Healthcare can be used to assess all healthcare buildings containing medical facilities at different stages of their lifecycles.



infrared products

The Cistermiser **infrared range** of products can help a healthcare building design gain BREEAM credit ratings under the water category and offers additional health, safety and maintenance benefits.

BREEAM category	cistermiser product	performance
Wat 1 Where evidence provided demonstrates that the specification includes taps, urinals, WCs and showers that consume less potable water in use than standard specifications for the same type of fittings.	easyflush WC valve	<ul style="list-style-type: none"> Standard 6 litre full flush with an adjustable part flush giving an effective flush volume of 4.5 litres. Provides a linked flush and fill function of fittings. (delayed action inlet valve operation). Full flush adjustable to 4 litres with a subsequent reduction in part flush giving an effective flush volume of 3 litres.
	direct flush (Discreet and Accessible) urinal control valve	<ul style="list-style-type: none"> Each flush uses less than 0.5 litres. Flush arrest function to reduce water consumption further during periods of high use. Programmable for flush duration, sensing range and has a hygiene rinse function. Cleaner's function.
	novatap and novaspout basin outlets	<ul style="list-style-type: none"> Regulated flow of either 5 litres or 3.5 litres per minute. Programmable run-on.
Hea 12 Where hot and cold water systems have been designed or actions taken to minimise risks of microbial contamination.	novatap and novaspout basin outlets	<ul style="list-style-type: none"> Used with Thermostatic Mixing Valves, the periodic hygiene rinse function prevents the warm, mixed water from stagnating. Reduces the risk of microbial contamination such as legionella.

Note: Waterless urinals: Due to overriding health and safety concerns in some healthcare facilities, the specification of waterless urinals may not be feasible. In such cases, compliance can be sought by one of the other available means, e.g. ultra low flush volume or infrared proximity. Cistermiser's Direct Flush products fulfil both of these compliance requirements.

Please refer to our website www.cistermiser.co.uk/breeam for further information on the BREEAM categories and a more detailed explanation of how the credits are achieved.

Other BREEAM compatible products

washroom control

The Cistermiser [washroom control range](#) helps building designs gain BREEAM credit ratings under four distinct categories as well as providing additional washroom management functions.

BREEAM category	cistermiser product	performance
Hea 6 Where evidence provided demonstrates that lighting, in all occupied areas, is zoned to allow separate control.	washroom control	<ul style="list-style-type: none"> The system controls the lighting in the washroom zone so that lights are on only when users are present.
Hea 07 Where lighting controls allow commonly required lighting settings to be made quickly and easily by building occupants.	washroom control	<ul style="list-style-type: none"> Users not familiar with the facility are also catered for by means of the PIR sensor lighting which is automatically switched on when a user is detected.
Ene 4 Where energy efficient external luminaires are fitted and all light fittings are controlled for the presence of daylight.	washroom control	<ul style="list-style-type: none"> The system contains a daylight sensor to provide switching only when the level of natural lighting is insufficient.
Wat 4 Where evidence is provided to demonstrate that proximity detection shut off is provided to the water supply to all urinals and WCs.	washroom control	<ul style="list-style-type: none"> Controls proximity shut-off of the water supply to the urinals and WCs by means of the PIR sensor detecting occupancy and providing signals to the control valves during periods of no occupation.
	sensazone	<ul style="list-style-type: none"> Controls proximity shut-off of the water supply to the urinals and WCs by means of the PIR sensor detecting occupancy and providing signals to the control valves during periods of no occupation.

AV range

The Cistermiser [av range](#) can help a building design achieve specific BREEAM credits under the Water and Health & Wellbeing categories whilst providing a robust anti-vandal, anti-ligature water control package for high risk and hard use environments

BREEAM category	cistermiser product	performance
Wat 1 Where evidence provided demonstrates that the specification includes taps, urinals, WCs and showers that consume less potable water in use than standard specifications for the same type of fittings.	AV Range control of Easyflush WC valve	<ul style="list-style-type: none"> Standard 6 litre full flush with an adjustable part flush giving an effective flush volume of 4.5 litres. Full flush adjustable to 4 litres with a subsequent reduction in part flush giving an effective flush volume of 3 litres.
	AV Range control of Direct Flush urinal control valve	<ul style="list-style-type: none"> Each flush uses less than 0.5 litres Flush arrest function to reduce water consumption further during periods of high use.
	AV basin outlets and showers	<ul style="list-style-type: none"> Basin outlet flow control set at 2.2 litres per minute. Shower outlet flow control set at 1.7 litres per minute.
Hea 12 Where hot and cold water systems have been designed or actions taken to minimise risks of microbial contamination.	AV basin outlets and showers	<ul style="list-style-type: none"> Used with Thermostatic Mixing Valves, the periodic hygiene rinse function prevents the warm, mixed water from stagnating. Reduces the risk of microbial contamination such as legionella.





Cistermiser
water management at its best

Cistermiser



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