

Water saving Innovative solutions



Water, our most precious resource, is more and more in demand. As water usage and its costs continue to rise, architects, planners and environmentalists are searching for new alternatives.

Ideal Standard are at the forefront of this search.

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Residential

Changes in lifestyle mean we are using 55% more water now than we did 25 years ago.



WCs

Using our dual flush technology can save you over 25% of the water used against a standard 6 litre cistern.



Dual flushing

Because you don't always need a full flush every time you go to the toilet, all Ideal Standard and Armitage Shanks push button close coupled WCs have dual flush cisterns as standard. These cisterns have two buttons – the small button delivers 4 litres for a short flush, the large button delivers 6 litres for a long flush. This saves over 25% of water vs a 6 litre cistern. Environmental Agency research

indicates that the average domestic toilet is used 5 times a day, with 4 uses requiring a short flush and 1 use requiring a long flush.

Water saving cisterns

Flushing with a smaller cistern is one of the most effective ways of saving water. Current water regulations require WCs to flush on a maximum of 6 litres. However over 60% of WCs installed in the UK still have cisterns that flush on 7.5, 9, 11 or even 13 litres.

By installing a 6 litre WC and cistern you could save anything from 20% to 50% of water per year.

New delayed flush cisterns

To ensure maximum savings we have developed delayed flush cisterns. This technology prevents the cistern from filling with water before the flush is complete, guaranteeing no additional water is wasted. This is particularly suitable in high water pressure situations.



The dual flush panel offers an elegantly modern solution for our wall mounted and back-to-wall WCs.



Our dual flush button is fitted as standard on all Ideal Standard and Armitage Shanks WCs.

Cistern savings

Based on UK average of 5 flushes per day



Baths and showers

Showering and bathing accounts for around 20% of the water we use.



The Alto water saving bath has a reduced capacity of 149 litres.

Low capacity baths

Baths come in many shapes and sizes. Typically an average Ideal Standard 1700 x 700mm bath will hold between 175 and 210 litres of water to the overflow. The Alto water saving bath only needs 149 litres of water to the overflow. That saves 15-28% of water.

Of course to have a luxurious bath you only need to fill the bath approximately 2 thirds below the overflow, allowing for average adult displacement of water.

Shower baths

Where space is limited, shower baths are designed to allow you to have a

shower and a bath in the same area. These have a dual water saving advantage. The opportunity to have a water saving shower combined with a low capacity bath.

Showering

Taking a shower often saves water compared to having a bath. Water usage is dependent on the type of shower (e.g. conventional vs power), water pressure, size of valve and the length of time in the shower. Some showers use a high volume of water - anything from 10 to more than 30 litres of water per minute.

One way to save water whilst keeping the benefits of a good shower is to fit a shower restrictor. Our restrictor is designed to give you a maximum of 9 litres of water per minute up to a pressure of 3 bar (Note you need a minimum pressure of 0.3 bar to achieve 9 litres per minute). The restrictor is fitted between the shower valve and the shower hose set. We only recommend using this restrictor with Trevi or Ideal Standard Showers and they are not suitable for use with Trevi Boost.



The Space shower bath allows you to have a shower or bath in the same area.



A typical 7 minute shower with water restrictor can save between 40 and 80 litres of water compared to having a bath.



Flow restrictors can be fitted to showers reducing the volume of water used.

Taps and mixers

Click cartridge technology can save over 5,000 litres of water per year in an average bathroom.



Click technology

Click technology gives you easy control over how much water you want to use.

The user lifts the lever until they feel a slight resistance. This indicates that the fitting is using 50% of its flow. Applying greater pressure results in a click giving 100% flow.

Ceramic disc cartridges

Apart from being annoying, a dripping tap can waste a lot of water over a period of time.

Taps with ceramic disc cartridge control water with impeccable precision. The ceramic disc is extremely durable and eliminates the waste of a dripping tap. A dripping tap that wastes 1 litre of water per hour is the equivalent of wasting 1460 full WC flushes a year.

Flow restrictors

Fitting a water restrictor allows you to control the amount of water a tap uses. Water usage is determined by water pressure and the size of valve in the tap.

So where you have particularly high pressure a tap could be delivering many unnecessary litres of water per minute. Our mixer tap restrictor is designed to give you a maximum of 6 litres of water per minute up to a pressure of 3 bar. The restrictor is screwed onto the tap outlet and has an airated nozzle. This gives the user a fine airated spray of water - both softer to the hand and perfect for quickly lathering with soap.



The Ceramix Alto tap offers an appealing combination of contemporary style with water saving Click technology.



A flow restrictor fitted to a pillar tap inlet.

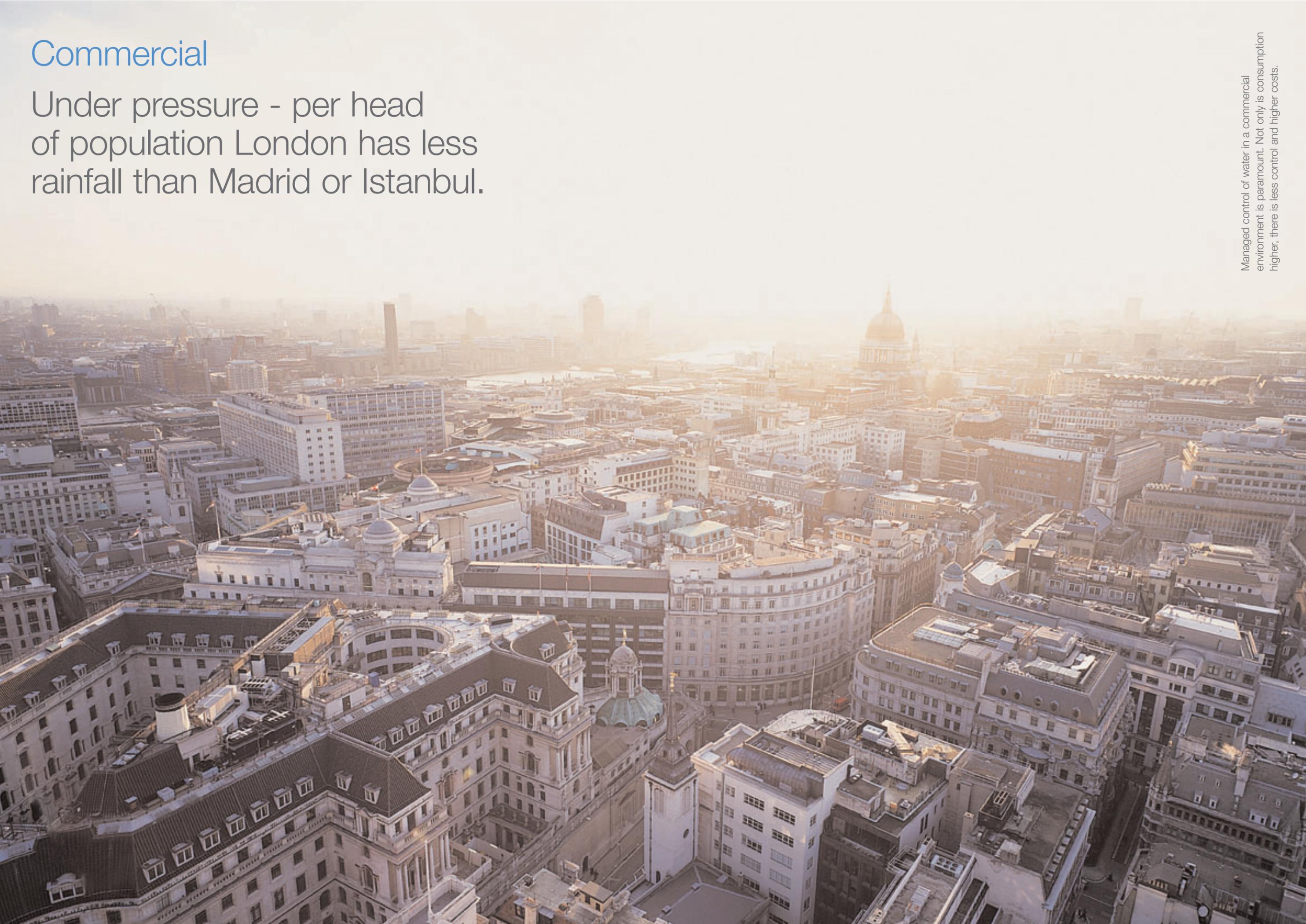
Water saving with Click technology

The example below shows the water used by running a tap for 2 minutes, twice a day while brushing teeth. Of course we wouldn't suggest you leave the tap running whilst brushing your teeth!

Water pressure	0.5 Bar	1.0 Bar	2.0 Bar	3.0 Bar
Conventional Tap uses	24 litres	24 litres	24 litres	24 litres
Click Tap uses	9.6 litres	14 litres	19.6 litres	24 litres
Water saving	14.4 litres	10 litres	4.4 litres	0 litres

Commercial

Under pressure - per head of population London has less rainfall than Madrid or Istanbul.



Managed control of water in a commercial environment is paramount. Not only is consumption higher, there is less control and higher costs.

Taps and mixers

The key is to deliver the exact amount of water at the right time.



Self-closing Avon non-concussive pillar taps are ideal for high usage areas.

Self closing taps

Self closing taps can be set to run for a pre-determined amount of time - typically 10 to 15 seconds. This is carried out at installation. This means taps are not left on by accident as well as ensuring washroom are not flooded.

Ideal for schools and high uses areas such as airports.

Sensorflow taps

Integral sensor shuts off after 3 seconds from when hand is removed.

Spouts with integral sensors detect hands within the sensing range and the solenoid valve is opened. The valve remains open for 3 seconds after the removal of hands and up to a maximum of 30 seconds if a hand or object is continuously detected.

Spouts with remote sensors operate differently. When hands are detected within close proximity of the sensor, the solenoid valve opens and water is delivered for a maximum of 30 seconds. The solenoid valve can be closed within this period by a second activation of the sensor.



Avon single control self closing washbasin monoblock mixer.



Sensorflow Solo cast panel mounted spout with integral sensor.



Sensorflow Solo wall mounted tap with touch control.

WCs

Special WCs have been developed for commercial use that can provide an effective flush with only 4.5 litres of water.



Dual flush or 4.5 litre flush?

There are 2 types of cistern that give you significant water saving benefits - dual flush and 4.5 litre flush. The choice of which option to use may be determined by the usage environment. Dual flush cisterns have two buttons - the small button delivers 4 litres for a short flush and the large button delivers 6 litres for a long flush. This option would be more suitable in an office environment where users can become familiar with the system. The 4.5 litre flush would be more suitable for areas

with a high throughput of many different users, e.g. an airport - where the lack of familiarity with dual flush may result in incorrect usage and therefore reduced water saving benefits.

Our 4.5 litre WCs pass all government flush regulations and are ideal for busy commercial applications.

New delayed flush cisterns

To ensure maximum savings we have developed delayed flush cisterns. This technology prevents the cistern from filling with water before the flush

is complete, guaranteeing no additional water is wasted. This is particularly suitable in high water pressure situations.

Sensorflow

Sensorflow is an electronic washroom system that accurately controls washroom water. It is simple to fit and very user friendly.

For WCs a wall or panel sensor detects close proximity of the users hand.

This initiates flushing using a pneumatic device.



The dual flush panel or Sensorflow system can be used with any of our back-to-wall or wall mounted WCs.



The contemporary dual flush panel offers an elegantly modern solution for our wall mounted WCs.



The palm button flush mechanism provides a durable design solution for today's washroom.

Urinals

Just one waterless urinal can save over 87,000 litres of water per year.



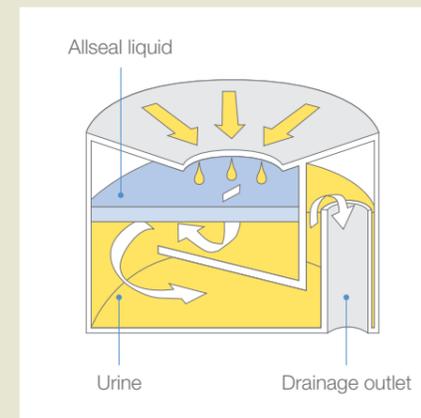
Aridian urinals feature waterless technology, low maintenance, reduced odour and easy installation.

Aridian

Aridian is a revolutionary waterless urinal. Using a cartridge to filter the urine, Aridian technology offers a range of benefits including easier installation, lower maintenance, reduced odour and lower bacteria levels.



The Sealtrap cartridge used in the Aridian waterless urinal.



The Sealtrap cartridge - urine flows down the surface of the urinal and into the cartridge which is filled with a special liquid called Allseal. Foul air is prevented from rising up from the drain and into the washroom.

Sensorflow

Sensorflow uses proximity sensors to detect usage, which will then flush according to operator defined parameters, typically after every visit or every 30 minutes. The method of flush can be via a conventional automatic cistern, storage cistern or mains supply.

Flushing using an automatic cistern dispenses 4.5 litres every flush. From storage or mains a timed flow of water is selected. If the urinal is unused a hygiene flush will occur once every 24 hours.



The Sensorflow system controls and manages an economic delivery of water to the urinal.

Tax benefits

Many of Ideal Standard and Armitage Shanks products are listed on the Qualified Water Technology List.

Saving water not only makes good environmental sense it also makes good commercial sense. Case studies of hotels have shown that they can make savings of over 50% in water usage by installing simple water saving devices. On top of this DEFRA actively incentivise businesses to save water. The Enhanced Capital Allowance (ECA) Scheme, run by DEFRA, enables businesses to claim 100% first year capital allowances on investments in technologies and products that encourage sustainable water use. That is equivalent to £30 for every £100 spent.

For further information visit www.eca-water.gov.uk



Domestic water saving

Area	Product	Description	Water saving benefit
WCs 	Dual flush WCs	<p>All Ideal Standard and Armitage Shanks Contemporary WCs have dual flush cisterns. Full flush = 6 litres Small flush = 4 litres</p> <p>Close coupled dual flush. Back to wall with Conceala cistern dual flush. Wall hung with Conceala cistern dual flush.</p>	<p>Saves 33% of water when you use the small flush button.</p> <p>A typical WC is flushed 5 times a day with 4 small flushes and 1 full flush: 4 x 4litre small flush, 1 x 6 litre full flush = 22 litres of water a day with an average flush of 4.4 litres.</p>
Bathing 	Alto water saving bath 1700 x 700mm E769001	Bath with reduced capacity of 149 litres. (Normal Alto 1700 x 700mm – 175 litres).	Saves approximately 15% of water vs a conventional Alto bath.
	Shower baths	Bath designed with a larger area at the base to give space for an overhead shower. Ideal Standard Space, Alto and Create shower baths Armitage Shanks Accolade shower bath	Showering is an effective way of saving water. A shower bath gives you a choice of showering or bathing where space is limited.
Showering 	Shower restrictor L6749AA	A restrictor reduces the amount of water used. The restrictor is inserted between the valve and shower kit.	<p>Showers can use anything from 10 to over 30 litres of water per minute depending on the water pressure.</p> <p>Shower restrictor limits the water flow to 9 litres per minute at 3 bar.</p> <p>A typical 7 minute shower with water restrictor can save between 40 and 80 litres of water compared to having a bath.</p>
Taps & mixers 	Ceramic disc taps	Ceramic disc taps use a very hard ceramic material in the valve. This gives precise control and reduces the chance of having a dripping tap. Ranges with ceramic disc technology include: Ideal Standard Class Tratto Silver Ceramix Alto Domi Cone Idyll Waterways CD Academy Moments Ceraplan Armitage Shanks Accolade CD Sandringham SL Halo	<p>Over time a dripping tap can waste many litres of water.</p> <p>A dripping tap wastes up to 4 litres of water per day.</p>
	Click technology taps	Resistance is felt in lever when the tap is delivering half the potential water flow. When lever 'clicks' tap delivers 100% flow. Incorporated in: Ideal Standard Idyll Two Ceramix Alto Ceraplan Armitage Shanks Sandringham SL	Cuts water usage by 50% if lever is stopped before click.
	Airated flow restrictor	Taps can use as much as 8 to 9 litres of water per minute depending on water pressure. Restrictor is screwed into the mixer spout to reduce the amount of water used.	Controls water to 6 litres per minute at 3 bar. Airated nozzle gives softer water feel, ideal for hand washing.

Commercial water saving

Area	Product	Description	Water saving potential
WCs 	Dual flush WCs	<p>All Ideal Standard and Armitage Shanks Contemporary WCs have dual flush cisterns. Full flush = 6 litres Small flush = 4 litres</p> <p>Close coupled dual flush. Back to wall with Conceala cistern dual flush. Wall hung with Conceala cistern dual flush.</p>	Saves 33% of water vs 6 litre cistern when small flush is used. Good for repeat user environments such as offices.
	4.5 litre flush	Special single flush WC and cistern combination that only needs 4.5 litres of water to flush.	Saves 25% of water vs 6 litre only flush. Good for areas of high usage with different users such as airports etc.
	New delayed fill flush	Cistern only begins to fill with water once the flush is complete.	The ultimate water saving device. Guarantees maximum water saving even in high pressure situations.
Taps & mixers 	Self closing taps Avon pillar taps S7239AA Avon mixer taps S7316AA	Lever is pushed down to activate tap. Water flow automatically stops after a period of time. Run time is manually adjusted on installation – typically 10 to 15 seconds.	Controlled water delivery. No risk of tap being left on resulting in flooded washroom.
	Sensorflow taps	Infrared sensor detects user and operates fittings. Fittings can be stand alone or be part of an integrated washroom system controlled by one unit. Options: Integral sensor in surface or wall mounted spout. Spout with separate sensor. Touch control wall mounted tap. For full range of options and control units refer to the BlueBook.	Water delivered only when it is needed.
	Airated flow restrictor	Taps can use as much as 8 to 9 litres of water per minute depending on water pressure. Restrictor is screwed into the mixer spout to reduce the amount of water used.	Reduces water to 6 litres per minute at 3 bar. Airated nozzle gives softer water feel, ideal for hand washing.
Urinals 	Waterless urinal	Aridian urinal uses a filter that breaks down uric acids and acts as a trap. The system requires no water.	Requires no water. 100% water saving.
	Sensorflow urinal	Sensorflow Urinal systems are only activated when the sensor detects use. For full range of options and control units refer to the BlueBook.	Reduces the amount of times the flush is activated and can offer huge water savings.