

DELABIE

Water Controls
for Healthcare Facilities
and Retirement Homes



CONTACTS

HEAD OFFICE & PRODUCTION SITE

18, rue du Maréchal Foch
80130 Friville
FRANCE

delabie.com

EXPORT

Tel. +33 (0)3 22 60 22 **72**
Fax +33 (0)3 22 60 22 82
export@delabie.fr

QUOTES

Tel. +33 (0)3 22 60 22 **72**
Fax +33 (0)3 22 60 22 82
export.quotes@delabie.fr

TECHNICAL SUPPORT

Tel. +33 (0)3 22 60 22 **74**
Fax +33 (0)3 22 30 31 07
sav@delabie.fr



ACS

Certificate of Sanitary Conformity.

All DELABIE products conform to the CPDW* directive modified 29/05/1997, and the French Ministry of Health circular DGS/SD7A2002 no. 571 dated 25/11/2002.

* Construction Products in Contact with Drinking Water (European Commission).



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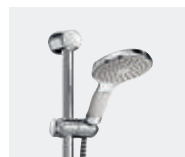


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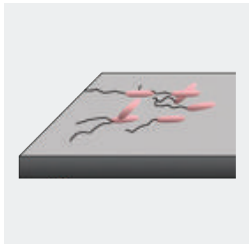
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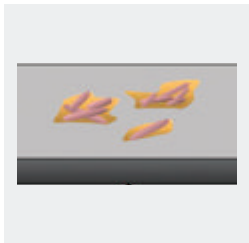
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Stages in the development of biofilm on a surface



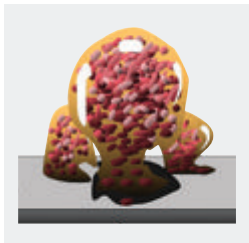
1: Cell attachment



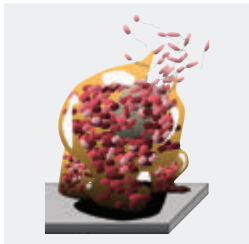
2: Irreversible cell attachment



3: Biofilm maturation phase I



4: Biofilm maturation phase II



5: Cell dispersion

CONTROLLING BIOFILM

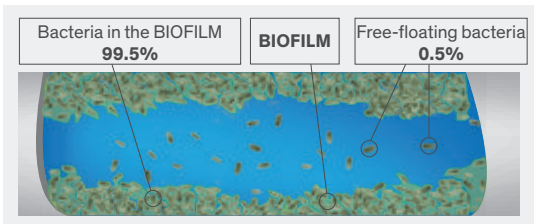
Naturally present in mixers, taps and pipework, biofilm is a collection of microorganisms (bacteria, algae, fungi, etc.) adhering to each other and to surfaces that are generally in contact with water, and which is characterised by the secretion of a protective and adhesive matrix.

Various studies have shown that, regardless of the material used (copper, CPVC, stainless steel, polypropylene, etc.), biofilm forms systematically after several weeks or months.

Stages of biofilm development: see opposite.
Source: Chinks in the Armour of Bacterial biofilms Monroe D PLoS Biology Vol. 5, No. 11, e307 doi: 10.1371/journal.pbio.0050307/D. Davis.

99.5% of bacteria found in these installations are trapped in the biofilm, which provides the ideal environment (water, temperature and nutritional conditions) for them to proliferate. If the conditions are favourable, the bacteria multiply and form aggregates that can easily become detached and contaminate the water supply.

Since biofilm is impossible to eradicate, healthcare facilities must do everything in their power to limit bacterial proliferation.



THE FIGHT AGAINST WATERBORNE BACTERIA

Infection control must be the priority for healthcare facilities which shelter many germs such as viruses and bacteria.

There are two types of waterborne bacteria which are responsible for healthcare acquired infections in hospitals:

- bacteria in the system which develop when in contact with water e.g. *Legionella* spp.
- bacteria at the point-of-use (water controls) which develop when in contact with air/water e.g. *Pseudomonas aeruginosa*, *Mycobacterium avium*, *Mycobacterium xenopi*, etc.

Since these two types of bacteria are very different, bacteriological monitoring must be appropriate for both types.

MONITORING FOR LEGIONELLA SPP.

The Health and Safety Executive (HSE) guidance for the control of legionella bacteria in hot and cold water systems states that monitoring for Legionella should be carried out:

- when water is treated with biocides or when distribution temperatures are reduced from HSE guidelines.
- where water treatment regime control levels are not being consistently achieved.
- where there is a high-risk of contamination e.g. hospitals and care homes.
- where an outbreak of legionellosis has been identified.

(Source: HSG274 part 2 published in 2014).

Monitoring levels for <i>Legionella</i> spp.:	
Alert level	< 100 CFU/L
Remedial action	> 100 CFU/L up to 1,000 CFU/L
Curative action	> 1,000 CFU/L

CFU/L: Colony Forming Units / Litre

For high-risk patients in hospitals the draw-off at the point-of-use should always be free of *Legionella* spp. bacteria.

MONITORING FOR PSEUDOMONAS AERUGINOSA

Pseudomonas aeruginosa is impossible to eradicate once established in the system and leads to serious consequences.

Pseudomonas is the second highest cause of death in patients resulting from healthcare acquired infections.

In 2014 a thorough study was conducted in 10 French hospitals. It found that 15% of 1,314 people admitted to an acute ward for more than 24 hours contracted *Pseudomonas aeruginosa*, having no sign of infection prior to their hospitalisation.

Source: Risk factors for *Pseudomonas aeruginosa* acquisition in intensive care units: a prospective multicentre study. The Healthcare Infection Society. Published by Elsevier Ltd

Pseudomonas aeruginosa needs two elements to develop: water at temperatures between 4 - 46°C (optimal proliferation between 30 - 37°C) and oxygen found in air.

There are several levels of *Pseudomonas aeruginosa* contamination.

***Pseudomonas aeruginosa* development in the spout**

Pseudomonas aeruginosa primarily contaminates mixer and tap spouts, since it needs a mixture of air and water to develop.

Biofilm, niches and cavities in the spout walls protect the bacteria from treatments, and provide the ideal environment for the bacteria to proliferate.

At the outlet, *Pseudomonas aeruginosa* finds all the necessary conditions to develop and proliferate, establishing permanent colonies in mixers and taps.

Even cleaning spouts and flow straighteners regularly is ineffective.

***Pseudomonas aeruginosa* development in flexible hoses and pipework**

Once established in the biofilm in mixers and taps, *Pseudomonas aeruginosa* continues to develop and will gradually colonise the flexibles and pipework unless an effective solution is put in place.

By this stage it is impossible to eradicate *Pseudomonas aeruginosa*, which then becomes a threat to the entire water system.

A guide to good practice if sanitary installations are contaminated by *Pseudomonas aeruginosa*

In the UK, the Department of Health (DoH) conducted a study into contamination by *Pseudomonas aeruginosa* in mixers/taps and the water supply system. This study resulted in the publication of technical guidance written specifically for augmented care units. This latter was incorporated in the revised version of the HTM 04-01 Part B in 2016 which outlines what action to take when healthcare facilities become contaminated with *Pseudomonas aeruginosa*.

In order to assess the level of water contamination by *Pseudomonas aeruginosa*, the DoH recommends sampling the first water to be delivered from the outlet. Furthermore, to maximise the recovery of free-floating bacteria it recommends taking samples:

- at least 2 hours (preferably longer) after the last draw-off at outlets used on a daily basis.
- on outlets that are used infrequently.

Monitoring levels for *Pseudomonas aeruginosa*:

Satisfactory level	0 CFU/100mL
Alert level	1 - 10 CFU/100mL
Curative action	>10 CFU/100mL

CFU/mL: Colony Forming Units/millilitre



Petri dish with *Pseudomonas aeruginosa* cells

For *Legionella* spp., the alert level is 100 CFU/L and the level for curative action is 1,000 CFU/L.

In its report, the DoH indicates that for *Pseudomonas aeruginosa*, the alert level is 1 CFU/100mL.

At levels between 1 and 10 CFU/100mL, the DoH recommends a re-test and a risk assessment to determine the appropriate measures.

For levels over 10 CFU/100mL an engineering survey may be necessary to identify problem areas and the remedial action required.

The results of successive samples will indicate the source of contamination in healthcare facilities. A sample with > 10 CFU/100mL for the pre-flush sample (1st draw-off) and levels of < 10 CFU/100mL for the post-flush sample (2nd draw-off) suggests *Pseudomonas aeruginosa* contamination at or near the outlet. However, if the pre- and post-flush samples show > 10 CFU/100mL, the contamination source is upstream in the system.

If the water sample results are satisfactory i.e. 0 CFU/ 100mL the DoH advises repeat tests every six months.

In its report the DoH clearly indicates that disinfecting the water supply (hot and cold) is insufficient for removing an established biofilm. It recommends that, where installed, removable taps should be periodically removed for internal cleaning to remove any biofilm and bacteria residing within. Healthcare facilities should establish regular cleaning protocols.



WATER QUALITY: VARIOUS MONITORING POLICIES

France, Germany and the United Kingdom, and the majority of European countries, each has their own specific regulatory requirements for monitoring bacteria in water systems.

These regulations have a common premise that can be found everywhere (circulating loops, hot water temperatures, etc.) but they also have specific aspects that could provide inspiration for other countries.

In the majority of European countries **there is a legal obligation to safeguard the bacteriological quality of the water in the system by regular monitoring, sampling and analysis.** However, the methods, and subsequent follow-up action, differ.

In France, only the search for **legionella** is obligatory. The Directive of 1st February 2010 identifies three levels of monitoring and sampling protocols. Since 1st January 2012, monitoring has been extended to all buildings open to the public.

Germany has adopted the same threshold levels as France, while the United Kingdom is stricter: it conducts additional testing at levels over 100 Colony Forming Units per litre (CFU/L) and initiates curative procedures above 1,000 CFU/L.

Even though France and Germany have set thresholds for the presence of ***Pseudomonas aeruginosa*** in water, they have not instigated requirements for compulsory monitoring. The pyocyanic bacillus is, nevertheless, considered the second largest cause of fatal nosocomial infections.

The Department of Health (DoH), Ministry of Health of the United Kingdom, has addressed the issue of tap and water system contamination by this bacteria.

The *Health Technical Memorandum* (HTM 04-01) updated in 2016, provides guidance on good practice for monitoring and testing for these two pathogens, and identifying the level of contamination in water, to ensure compliance with current regulations.

For *Pseudomonas aeruginosa*, action is initiated as soon as the alert level is reached, that is to say, above 1 CFU/100mL.

Remember that this bacteria, which colonises the system from the interior of tap/mixer spouts, rapidly becomes entrenched. If no solution is put in place once *Pseudomonas aeruginosa* is established in a mixer or tap, it will progressively colonise the tails and pipework. At this stage it will be impossible to eradicate and will become a threat to the whole system (for more information see page 5).

4.1 million
healthcare acquired
infections in Europe of which
37,000 are fatal

12% of cases
of legionellosis
are in healthcare
facilities



The bacteria that form biofilms on the surface of certain materials are responsible for one third of healthcare-acquired infections (HCAIs).

According to NICE (2014), it is estimated that 300,000 patients in England acquire an HCAI as a result of care within the NHS. In 2011, the prevalence of HCAIs in hospitals in England was 6.4%. In a 2012 study by the French national Institution for Health Monitoring (IHM), one in twenty (5%) French healthcare patients contracted an infection from the facility that was caring for them. This represents approximately 750,000 infections a year, of which 4,000 were fatal.

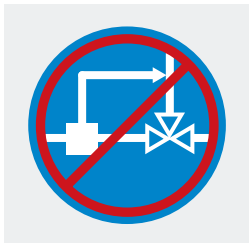
The European Centre for Disease Prevention and Control (ECDC) calculates that HCAIs affect 4.1 million patients every year and are responsible for 37,000 deaths annually.

Not forgetting that non-healthcare buildings that are open to the public are also at high risk. In effect, according to statistics by the IHM, 30% of Legionella cases identified in 2015 were linked to hotels, tourist accommodation, campsites, swimming pools and sports stadia, compared to 12% linked to healthcare facilities (hospitals, retirement homes, etc.).

EUROPEAN REGULATIONS REGARDING WATER QUALITY



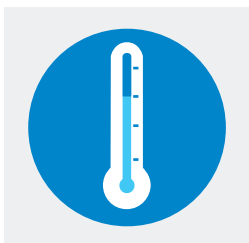
Stagnation prohibited



Bypass loops prohibited



Measuring pressure



Measuring the temperature



Training relevant personnel

Regular flushing

The French, German and English regulations identify water stagnation in mixers and taps as a factor which favours bacterial contamination. The [European standard EN 806-5](#) requires that infrequently used sections of the system should be flushed at regular intervals. The recommended interval is once a week. This affects all public buildings, in particular schools and council buildings during the school holidays, campsites out of season, unoccupied hotel rooms, etc.

The German directive of April 2013, *Hygiene in Drinking Water Installations VDI/DVGW 6023*, requires pipework and storage tanks to be drained after 72 hours of stagnation. If an installation is not used during 72 hours, rigorous protocols are put in place. DELABIE sees this requirement as a step forward and proposes technical solutions that make it possible to meet this requirement (see opposite: electronic controls).

Undersized pipework

Another unique aspect of the German regulations is that oversized pipes are strictly prohibited because they promote bacterial growth by reducing the water velocity.

[DELABIE, along the same lines, recommends slightly decreasing the diameter of the pipes to increase the water velocity to 2m/sec.](#) (likewise in France, the DTU recommends 1.5m/sec.).

This measure prevents the excessive development of biofilm and helps to reduce the risk of contamination without increasing noise levels.

“Oversized pipes are strictly prohibited.”

Training

Understanding the problems associated with bacterial growth in water systems helps to limit the risk of contamination.

Although French legislators have not yet focused on [training those responsible for the water system](#), it is embedded and pursued in Germany (with three training levels, depending on the level of responsibility) and in the United Kingdom (with personnel competency and training programmes monitored and assessed by the Water Safety Group).

“The German directive requires pipes and storage tanks to be drained after 72 hours of stagnation.”

Removable mixers and taps

In addition to preventative measures, the HSE recommends the use of mixers and taps that can be easily removed for regular internal cleaning; a mechanical intervention that is effective for removing biofilm.

Circulating loops

Circulating loops up to the point-of-use are not recommended. They double the length of the pipework and therefore double the water volume. The biofilm surface is increased and, as a result, the risk of bacterial development. Moreover, it makes it difficult to maintain high temperatures at all points in the circulating loop. Finally, it also makes it difficult to keep the final pipe run to less than the 3 litres recommended by European directives. Indeed, if the water temperature in a circulating loop is less than 50°C or 55°C (depending on the country) the water volume in the circulating loop must be included in the 3 litre maximum calculation.

“Circulating loops up to the point-of-use are not recommended.”

Building management systems

Contrary to popular belief, Building management systems are not recommended by European directives as they can be complicated, difficult to handle and extremely costly (materials, cabling requirements, etc.) and do not take away liability if a problem occurs. Indeed, changing the setting adjustments, which is possible on these systems, can be dangerous and implies a high degree of liability.

DELABIE'S SPECIFIC ADVANTAGES

DELABIE is particularly concerned with the fight against, and prevention of, bacterial development. The company is constantly developing new products with unique features.

Adapted water controls

DELABIE offers water controls with low water volumes which have smooth surfaces in contact with the water, and removable mixers and taps, fitted with flexible hoses or tails, with reduced water passages... in order to reduce the risk of bacterial development considerably (for more information see page 10).

Electronic controls

DELABIE's models are programmed with a periodic duty flush. An **automatic flush** takes place every 24 hours after the last use to prevent water stagnation and, therefore, bacterial proliferation.

Similarly, DELABIE has developed a **reduced-stagnation solenoid valve (patented)**.

Unlike all other available models which have areas of permanent water stagnation, the water is completely renewed inside DELABIE's solenoid valve (for more information see page 33).

Thanks to the two characteristics above, DELABIE's electronic controls are the only ones to guarantee a regular and complete renewal of the water in all the internal parts, avoiding any risk of bacterial proliferation. They are therefore the only ones which comply with the European standard EN 806-5.

**DELABIE's
electronic controls
are the only ones to guarantee
a regular and complete renewal
of the water
in all the internal parts.**

Requirement of the European standard
EN 806-5

Thermostatic mixing valves

To reduce the risk of bacterial development (legionella etc.) public buildings should distribute hot water at temperatures of at least 50°C (55°C in healthcare facilities). To reduce the risk of scalding, all DELABIE's thermostatic mixing valves are fitted with **special safety devices**.

They are supplied with a maximum temperature limiter pre-set at the factory.

The PREMIX range of group thermostatic mixing valves allows the facilities manager to maintain temperatures that comply with the regulations while ensuring user safety (for more information see pages 90, 156 and 157).

Scalding can also be prevented at the point-of-use itself thanks to the SECURITHERM range of mixers and shower panels.

PREMIX and SECURITHERM models ensure that the hot water supply shuts off if the cold water supply fails.

Direct flush with no cistern

The insides of toilet cisterns are covered in biofilm. The large surface area of cisterns, and stagnant water, make the cistern a major risk factor for the proliferation of bacteria that can spread in sanitary installations. **By removing the need for toilet cisterns, DELABIE's direct flush valves eliminate the risk of bacterial proliferation** (for more information see page 180).

Flush systems with no cisterns

- ▶ no stagnant water
- ▶ no bacterial development



TEMPOMATIC 4
Automatic duty flush
Reduced-stagnation
solenoid valve



BIOCLIP
Removable mixer



PREMIX
Maintains the temperature
in the system
Anti-scalding safety



TEMPOFLUX 2
Direct flush with no cistern



DELABIE'S SOLUTIONS FOR INFECTION CONTROL

THE BIOSAFE CONCEPT

Pseudomonas aeruginosa mostly contaminates mixers and taps at the terminal, i.e. inside the spout and its outlet. As a result, this part of the mixer/tap should be the subject of special attention in order to limit bacterial development. To this end, DELABIE has designed specialist controls that facilitate preventative action and, if necessary, curative action if contamination occurs.



After 2 years of use



After 10 years of use

Inside a mixer where there are no cleaning protocols in place



Biofilm is eliminated
Mixer is like new

Inside a mixer where there are regular cleaning protocols in place



Low volume of standing water



Discover our BIOSAFE solutions video

BIOCLIP removable mixers and taps for cleaning/disinfection

The BIOCLIP range of mixers and taps can be fitted with specialist spouts and the whole interior can be cleaned - the only way to eliminate biofilm completely - helping to fight effectively against bacterial development.

• Mixers with removable BIOCLIP spouts

Mixers are supplied with two stainless steel spouts. The second spout ensures continuous use while the first is being cleaned. Alternative options are:

- Disposable spouts: each spout must be replaced periodically, depending on the type of installation.
- BIOFIL filtration spouts: these spouts guarantee the bacteriological quality of the water.

• BIOCLIP removable mixers

Mixers that can be completely removed from their base for curative or preventative measures in healthcare facilities:

- **Curative action:** bacteriological monitoring in healthcare environments sometimes requires remedial action. If mixers and taps are contaminated by *Legionella* spp. or *Pseudomonas aeruginosa*, they can be easily removed by maintenance staff to enable the interior to be completely cleaned.
- **Preventative action:** to minimise the risk of bacterial proliferation in mixers and taps, DELABIE recommends concentrating on preventative measures.

BIOCLIP mixers and taps allow healthcare facilities to establish regular cleaning protocols (from every 6 months to every 2 years depending on the type of facility) to eliminate biofilm and bacteria.

Mixers and taps with low volume of standing water

Some DELABIE mixers have specifically designed interiors that reduce the volume of standing water in the body, and thus significantly reduce the risk of bacterial development.

Mixers and taps with smooth interiors

All the internal parts of certain DELABIE models are completely smooth, reducing biofilm attachment and making it easier to treat.

A study in June 2010 by the BioPI laboratory and the Department for Biological Studies at Jules Verne University in Amiens, France showed that under constant conditions, **mixers and taps with smooth interiors have *Pseudomonas aeruginosa* contamination levels 14 times lower than those mixers and taps with rough bodies.**

Electronic controls with duty flush programme

Water stagnation is one of the main causes of bacterial development in water systems. To overcome this problem, all DELABIE electronic controls are programmed with a periodic duty flush to prevent bacterial proliferation.

An automatic flush takes place for ~60 seconds every 24 hours after the last use (programmable on some models). As a result, bacteria do not have the opportunity to develop.

BIOSAFE hygienic outlet

Made from Hostaform®, its smooth internal surface provides nowhere for impurities or scale to adhere (no grid, partitions or star-shaped structure) reducing the emergence and spread of bacteria and germs in damp conditions. It can only be installed on a mixer or tap that already has a restricted flow rate to ensure a good flow with no splashing (for more information, see page 97).

BIOFIL terminal filtration

BIOFIL antibacterial filters guarantee bacteriologically controlled water at the point-of-use and protect the user's well-being.

Each BIOFIL filter incorporates a hollow fibre membrane with a water filtration threshold of 0.1 microns absolute-rated. They deliver water free from microorganisms, providing total protection against waterborne infection.

The BIOFIL range includes cartridges, shower heads and filtration spouts (for more information, see pages 27 - 29).

DELABIE'S SOLUTIONS FOR EASE, COMFORT AND ERGONOMICS

Domestic washbasin mixers and taps do not provide the necessary level of comfort for the residents of healthcare facilities and retirement homes. These domestic mixers/taps are designed for personal washing (for face washing or cleaning teeth etc.) and are not designed for washing the whole body.

• Unsuitable dimensions

Residents in healthcare facilities and retirement homes include the sick, weak, elderly or disabled people.

The mixers and taps used for personal hygiene should be suitable for the resident's physical needs and the required use (washing at a hand basin requires greater comfort). To ensure optimised washing, mixers and taps should have an increased spout height and projection.

• Lack of ergonomics

The control knobs of conventional mixers and taps are not designed for easy gripping. Moreover, the movement required to adjust the flow rate and temperature is not always smooth. As a result, residents in healthcare facilities and retirement homes have to make an additional effort to operate the mixer or tap.

Comfortable and easy to use

• Specific, adapted dimensions:

high and extended spout (projection)

The dimensions of mixers and taps destined for patient bathrooms must be suitable for their range of movements, and offer them all the ease and comfort they require.

DELABIE offers mixers and taps with higher and longer spouts than traditional mixers and taps. This allows patients to optimise hand washing and personal washing.

Moreover, an increased drop height reduces the risk of bacteria splashing back from the waste or drain onto the spout.

• Ergonomic controls

DELABIE offers a wide choice of ergonomic control levers to meet the specific needs of different users:

Controls with manual contact:

- Sculptured levers or ergonomic control knobs for an easy grip.
- Solid levers combining design and ergonomics.

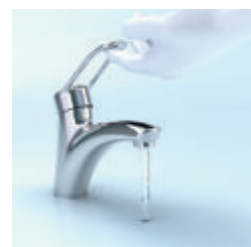
Controls with no manual contact:

- Hygiene levers: these long levers are specifically designed for healthcare professionals and patients with reduced mobility, and can be controlled with no manual contact using the wrist, forearm or elbow.
- Infrared presence detection: DELABIE electronic mixers and taps do not require any effort from the patient. The mixer/tap opens and closes automatically when hands are presented in the detection zone (with no manual contact) for superior comfort.

Besides the convenience and comfort they provide for the residents, these mixers and taps - which operate without manual contact - help prevent the spread of germs by hand (perfect hygiene).



High spout:
optimised hand washing



Sculptured control lever:
easy to grip



Ergonomic controls



Long lever



Discover our Ergonomic and
Accessibility solutions video

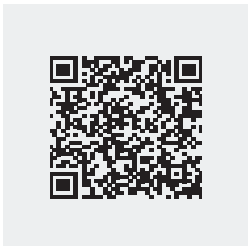


DELABIE'S SOLUTIONS
TO REDUCE THE RISK
OF SCALDING

THE SECURITHERM CONCEPT



Maximum temperature limiter



Discover our SECURITHERM
solutions video

To reduce the risk of bacterial development (*Legionella* spp., *Pseudomonas aeruginosa*, etc.) healthcare facilities must produce and distribute hot water at high temperatures (HSE Approved Code of Practice and Guidance document HSG274 Part 2). The risk of cutaneous scalding increases considerably for hospital patients with reduced sensitivity and/or slower reflexes.

According to the World Health Organisation, hot water is a major cause of scalding (between 20 and 30%). Every year in the UK, 600 people suffer severe scald injuries. Three-quarters of the victims are under the age of five (source: RoSPA).

This risk is particularly high for mentally or physically disabled people or the elderly, mainly if they accidentally change the temperature setting from its initial setting.

It is therefore essential to maintain a maximum temperature that reduces the risk of scalding by introducing safety devices.

HSE guidelines state that where a significant risk of scalding has been identified, point-of-use TMVs should be considered for baths and showers to deliver water at safe temperatures (see pages 90, 156 and 157). The risk of scalding can also be controlled at the point-of-use thanks to the SECURITHERM range of mixers and shower panels.

Mixers with a temperature limiter

All DELABIE mixers are supplied with a maximum temperature limiter. The user cannot increase the temperature above the temperature limit (maximum temperature depends on the model) reducing the risk of scalding.

The temperature limiter is set at the factory to save time during installation, but it may be adjusted by the installer.

Mixers with automatic hot and cold water shut-off

SECURITHERM technology ensures immediate hot water shut-off if the cold water supply fails. If the hot water supply fails, DELABIE SECURITHERM mixers also shut off the cold water supply.

Mixers that regulate the temperature

SECURITHERM thermostatic mixers regulate the temperature precisely, even if there are pressure variations between the hot and cold water supplies.

Correlation between temperature and the risk of scalding:	
At 60°C	3 rd degree burns in 3 seconds on average: 5 seconds for an adult, 1 - 2 seconds for a child
At 50°C	Burns in 7 seconds 3 rd degree burns in 100 sec.

Source: Centre for Burns, St Joseph and St Luc Hospital in Lyon, France

Mixers with Securitouch thermal insulation

DELABIE has placed an increased emphasis on safety with its new generation of Securitouch mixers. In general, the bodies of mixers are made from chrome-plated brass. Since metal is an effective heat conductor, it is very easy for people to burn themselves even when only brushing against the surface of the mixer. This may be the case if someone slips or loses their balance in the shower.

• Individual SECURITHERM thermostatic mixers:

SECURITHERM thermostatic mixers have been designed so that there is no thermal conduction along the length of the body, which prevents the risk of burns if touched.

• SECURITHERM mixers with EP cartridges:

The body of the SECURITOUCH EP wall-mounted, mechanical mixer is insulated from the hot water. Hot water flows up to the cartridge inside narrow tubes without coming into contact with the brass walls of the mixer.

Any risk of burning by touching or accidentally brushing against the mixer in case of a fall is therefore totally removed.

Thermal shock safety

• SECURITHERM thermostatic mixers:

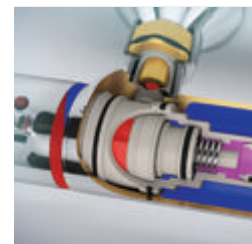
With SECURITHERM thermostatic mixers it is possible to undertake thermal shocks at the temperature of the hot water in the system:

- for refs. H974 1TP and H9752P dual control models only, unscrew the temperature adjustment cap using an Allen key and turn the valve spindle clockwise all the way to the right to override the temperature setting.
- on all other dual control models simply press the little red button with a pointed tool to override the maximum temperature limiter.
- remove the control lever and the temperature limiting index ring on TMV3 approved single lever control models.

• 2620 BIOSAFE mixers:

The 2620 range of mechanical mixers are the only mechanical mixers available where it is possible to undertake a thermal shock at the temperature of the Hot Water in the system without removing the control lever or shutting off the Cold Water supply. To override the temperature limiter, simply press the small red button at the back of the control lever.

Securitouch thermostatic mixer

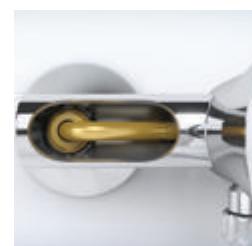


Total thermal insulation



Securitouch technology:
cool-touch

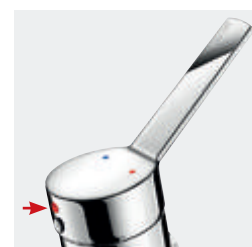
Securitouch EP mixer



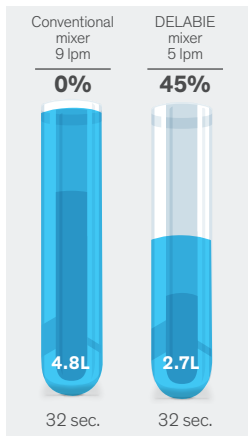
Tube insulated
from the mixer body



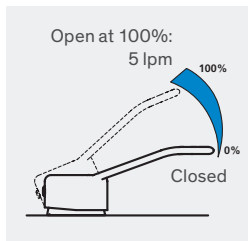
No risk of burns



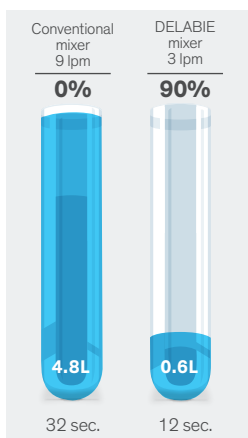
Thermal shock safety



Water savings per use by DELABIE mechanical mixer



DELABIE mechanical mixer



Water savings per use by DELABIE electronic mixer



DELABIE electronic mixer

DELABIE'S SOLUTIONS FOR SAVING WATER AND ENERGY

At home the shower is the preferred means of washing; however this is not the case in hospitals or care homes. Patients or residents tend to wash at a basin rather than take a shower as they have reduced autonomy (e.g. those weakened by illness, the elderly, semi-bedridden patients, those recovering from surgery, etc.). Washing at the washbasin takes longer (14 - 20 minutes) than showering (8 - 10 minutes on average) and involves a significant volume of water.

Average water consumption per person per day:

Domestic consumption:

137 litres per day per person



Hospitals or similar:
300 - 450 litres per day per bed



Retirement homes or care homes:
up to 250 litres per day per bed

Source : Information Centre for Water (CIEAU) Water Agency, Loire Brittany

DELABIE mechanical mixers for washbasins deliver 45% water savings

Most mixer manufacturers regulate the flow rate inside the cartridge or at the mixer outlet. This inevitably creates counter pressure in the mixer, resulting in cross flow between the hot and cold water.

All DELABIE basin mixers with ceramic cartridges are fitted with a flow rate limiter at the hot and cold water inlets to achieve 5 lpm at the outlet. The water savings achieved are about 45% and user comfort is maintained. Controlling the flow rate at the inlet instead of the outlet prevents cross flow between hot and cold water, which causes the proliferation of bacteria upstream of the mixers.

Other mixers on the market cannot deliver the same level of water savings.

There are three possible options:

- The mixer does not have a restricted flow rate (9 - 12 lpm flow rate: significant water consumption).
- The mixer can have its flow rate restricted but the installer must adjust the flow rate on the cartridge of every mixer (rarely undertaken).
- The mixer has a double flow rate function on its cartridge: a limiter restricts the flow rate to 6 lpm (resistance point). However, by simply pushing the control lever, it is possible to achieve the maximum flow rate (9 - 12 lpm). The control lever is rarely stopped mid-way: the alleged water saving on such mixers is therefore totally random. Even if the control lever remains in the alleged low consumption zone of 6 lpm, the flow rate is still higher than that of DELABIE mixers. In addition, after a certain number of operations this type of limiter becomes worn and loses its effectiveness.

DELABIE electronic mixers for washbasins: 90% water savings

Compared to conventional mixers, DELABIE electronic controls can offer maximum water savings. They maintain user comfort whilst optimising the water bill.

Automatic shut-off and split delivery

The mixer or tap shuts off automatically when hands are removed from the detection zone. This removes the risk of waste through negligence.

The anti-blocking security activates to prevent the mixer or tap from flowing continuously.

The flow time is reduced to the necessary minimum (wetting, rinsing).

Flow rate regulated at 3 lpm

DELABIE electronic mixers and taps are regulated at 3 lpm. The flow rate remains constant regardless of pressure fluctuations in the system. The flow rate is pre-set at 3 lpm at 3 bar. However, it can be adjusted from 1.5 - 6 lpm.

WATER CONSUMPTION COMPARISONS

A comparison between a conventional mixer, a DELABIE mechanical mixer and a DELABIE electronic mixer

Flow rate	Wetting	Soaping	Rinsing	Water consumption
9L	 5 sec.	 20 sec.	 7 sec.	4.8L 32 sec.
5L	 5 sec.	 20 sec.	 7 sec.	2.7L 32 sec.
3L	 5 sec.	 20 sec.	 7 sec.	0.6L 12 sec.



Discover our water saving solutions video

WATER SAVINGS IN HEALTHCARE FACILITIES

The purchase cost of a DELABIE mixer can be covered by the water savings achieved

A comparison between a domestic mixer at 9 lpm, a DELABIE mixer at 5 lpm and an electronic mixer at 3 lpm. The price per m³ of mixed water is 6€ excl. VAT.

Water savings achieved in a 400 bed hospital (patient rooms)	Conventional mixers	DELABIE mixers	DELABIE electronic mixers
Number of beds	400	400	400
Points-of-use for hand washing	BASIN	BASIN	BASIN
Average length of flow / day / bed	20 min.	20 min.	7.5 min.
Number of days used / year	290	290	290
Mixer consumption in lpm	9	5	3
Annual consumption in m ³	20,880 m ³	11,600 m ³	2,610 m ³
Annual consumption in €	125,280€	69,600€	15,660€
Annual consumption per mixer in €	313€	174€	39€
Annual saving excl. VAT		55,680€ HT	109,620€ HT

ECOLABELS

Saving drinking water is a growing concern, both in the context of achieving green credentials for a building and more generally in the field of resource management.

Installing the right water controls will ensure the sanitary quality of water and its sustainable use.

Today, many project managers want to achieve recognised accreditation for **environmental performance for their building**, both in terms of the building's construction and its day-to-day operation. Destined for housing, industrial or tertiary use, the certified building sees its heritage value increase with a "sustainability stamp". In the current context of global warming and the rising cost of energy resources, sustainable use of the building is synonymous with saving energy. Sustainable water management is equally part of the objective.

It is also the key to reducing energy bills by reducing the energy required to heat the water (it takes approximately 34 kW to heat 1m³ of water).

DELABIE is committed to the main environmental Ecolabels for buildings such as BREEAM, LEED, HQE, ESTIDAMA, etc.

Solutions for optimising flow rates and automatic shut-off are examples of ways to reduce water and energy consumption. DELABIE mixers and taps can help project managers achieve the highest performance levels for buildings within these schemes.

THE PRINCIPAL ACCREDITATION SCHEMES FOR BUILDINGS

There are two main accreditation schemes for sustainable buildings in Europe, one in North America and one in Abu Dhabi. In the United Kingdom, **BREEAM** (BRE Environmental Assessment Method), the method for assessing the environmental performance of buildings was developed by BRE (Building Research Establishment) in 1990. The French scheme **HQE** (Haute Qualité Environnementale) was launched in 2005. In the United States the US Green Building Council (USGBC) created **LEED** (Leadership in Energy and Environmental Design) in 1998. Finally, the Abu Dhabi Urban Planning Council created its initiative for sustainable building design, **ESTIDAMA**, in 2007.

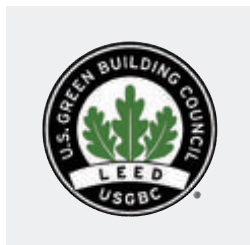
These main schemes have been widely adopted and they take into account water management in buildings, and address such issues as saving potable water.

Although BREEAM is the most widely used scheme in the UK and is adapted to the UK market trends, in certain types of tertiary buildings, international accreditation is often also required. This particularly concerns project managers with international reputations and ambitions, and foreign groups for whom LEED or HQE accreditation is essential in their country. However, BREEAM principles and tools can also be used throughout the world.

Regardless of the type of certification used, in terms of water and energy savings, DELABIE's water controls are at least equal to, and often superior to the highest performance levels required by BREEAM, LEED, HQE or ESTIDAMA.



BRE Environmental Assessment Method



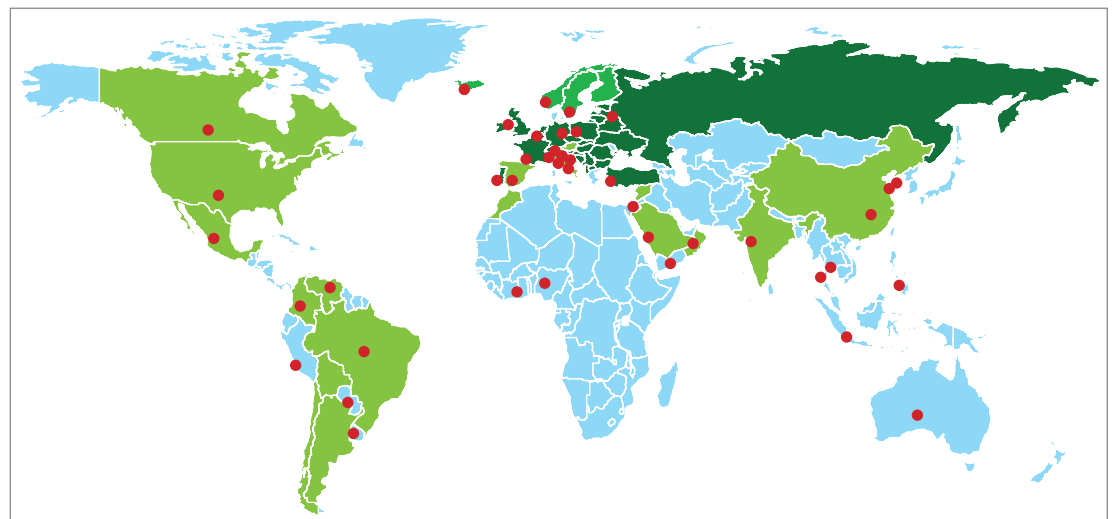
Leadership in Energy and Environmental Design



Haute Qualité Environnementale



Sustainable development



© Deloitte - Certification distribution.

LEED

BREEAM

LEED / BREEAM

Other ranking systems used or pending

BRITISH BREEAM: BRE'S ENVIRONMENTAL ASSESSMENT METHOD



The British method for assessing environmental performance in buildings, developed by BRE (Building Research Establishment) was the first to be established and is the most widely used around the world.

BREEAM is the standard reference in terms of [sustainable building](#) development and has become the assessment method used to describe the [environmental performance](#) of a building. BREEAM tackles environmental issues in their entirety and allows developers and designers to demonstrate their building's environmental credentials to planners and their clients.

It applies to new buildings as well as refurbishment projects. Certification is awarded by BRE based on a report provided by qualified assessors. 105 credits are available in total, of which 5 are available for water consumption performance (BREEAM 2011 - New Construction for Non-Domestic Buildings).

BREEAM performance levels for water consumption in non-domestic buildings

USE	Basin	Shower	WC
Baseline	12 lpm	14 lpm	6L
1 Credit	9 lpm	10 lpm	5L
2 Credits	7.75 lpm	8 lpm	4.5L
3 Credits	4.5 lpm	6 lpm	4L
4 Credits	3.75 lpm	4 lpm	3.75L
5 Credits	3 lpm	3.5 lpm	3L
DELABIE solutions	3 lpm for electronic taps (+ automatic shut-off). > 5 credits	6 lpm for shower panels. 8-9 lpm for shower mixers. > 2 or 3 credits	Dual flush: 3L/6L can be adjusted to 2L/4L. > 5 credits

AMERICAN LEED: LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN



Leadership in Energy and Environmental Design (LEED) is a North American rating system for [high environmental quality buildings](#) developed by the US Green Building Council in 1998. This system has evolved over time and has become the flagship certification scheme for American buildings and a key benchmark globally.

The LEED scheme corresponds to an overall assessment of the building during the construction and operational phase. It applies to different building types: new buildings, refurbishment, maintenance of existing properties, etc.

The rating criteria is based on [energy efficiency](#), [water and heating consumption](#), the use of materials locally provided and the reuse of the surplus. Each criteria fulfilled attracts credits (maximum 110 points).

The LEED accreditation level is based on the amount of points gained. There are 4 LEED accreditation levels: certified, silver, gold or platinum.

LEED performance levels for water consumption in new buildings

USE	Basin	Shower	WC
LEED 20% requirement	6.66 lpm	6.66 lpm	4.80L
LEED 30% (2 points)	5.83 lpm	5.83 lpm	4.20L
LEED 35% (3 points)	5.41 lpm	5.41 lpm	3.90L
LEED 40% (4 points)	5 lpm	5 lpm	3.60L
DELABIE solutions	3 lpm for electronic taps (+ automatic shut-off). > 4 points	Factory pre-set: 6 lpm for shower panels. Flow rate can be adjusted to 5 lpm. > 4 points	Dual flush: 3L/6L can be adjusted to 2L/4L. > 4 points

FRENCH HQE: "HAUTE QUALITÉ ENVIRONNEMENTALE"



The **HQE process** is aimed at improving the **environmental quality of construction operations or building reuse** whether it is for tertiary buildings, individual homes or community housing. The objective of the project manager is to offer safe and comfortable buildings which have, throughout their life cycle, the least possible impact on the environment. It encourages the use of best practice and to gain credible recognition for a building's **performance in terms of environment and energy**.

The generic reference of the HQE process includes three inseparable parts: Environmental Management System (EMS) where the project manager sets his own operational objectives and specifies the role of each stakeholder, performance indicators and 14 environmental targets. The two latter parts enable the builder to structure the technical, architectural and economic solutions according to the project manager's objectives.

For each target there are 3 performance levels for which points are awarded: base level (required by the regulations), efficient level and high performance level.

To achieve HQE certification the builder must obtain 30 points out of 110 across the 14 environmental targets, and at least 19 points out of 45 in the three following criteria: low pollution construction site, **"energy management"** and **"water management"**. This last criteria is split into 2 sub-targets: reduced water consumption and optimised rain water management.

To optimise potable water consumption, **hydro-economic solutions** should be put in place. These solutions should be suitable for the lifestyles and objectives of the users. DELABIE time flow and electronic water controls easily meet the HQE requirements for the hydro-economic solutions.

Hydro-economic solutions suggested in the technical guidance for certification under "Tertiary buildings - the HQE Approach".

USE	Hydro-economic solutions	DELABIE's solutions
Basin	Presence detection mixer/tap	Active infrared detection. Flow rate set at 3 lpm
	Mixer with a flow regulator	Flow rate limited and controlled at 5 lpm
Shower	Mixer with a flow rate limiter/regulator	Flow rate limited and controlled at 6 lpm for shower panels, 8-9 lpm for other shower mixers
WC	Cistern volume: less than 7 litres and dual flush (or intermittent)	Direct flush with 3L/6L dual flush can be adjusted to 2L/4L

MIDDLE EAST ESTIDAMA: SUSTAINABLE DEVELOPMENT



ESTIDAMA is a methodology for designing sustainable buildings developed and promoted by the Abu Dhabi Urban Planning Council (UPC). The UPC is recognised internationally for sustainable urban planning.

In the urban plan "Plan Abu Dhabi 2030", sustainability is a core principle. ESTIDAMA is not just a rating method, it is more of a vision and a desire to achieve a **sustainable way of life** in the Arab world. In this respect, project owners, developers, design teams and even residents need to think differently about how they approach the design and planning process.

The ultimate goal of ESTIDAMA is to preserve and enrich Abu Dhabi's physical and cultural identity, while continuing to improve the quality of life for its residents. ESTIDAMA has a rating system for sustainable construction practices in Abu Dhabi, named the **"Pearl Rating System" (PRS)**.

This PRS has 3 levels of certification: the Pearl Community Rating System, the Pearl Building Rating System and the Pearl Villa Rating System. The first two, the **PCRS** and the **PBRS encourage water savings**, energy savings, waste reduction and the use of local materials. It is aimed at improving the supply chain with recycled and sustainable materials and products.

DELABIE mixers and taps conform to the PBRS (Pearl Building Rating System) and the PCRS (Pearl Community Rating System).

USAGE	PBRS - PCRS	DELABIE's solutions
Basin (Public)	1.9 lpm at 417.7 kPa (= 4.17 bar)	Factory pre-set at 3 lpm can be adjusted to 1.5 lpm at 3 bar for electronic mixers/taps (+ automatic shut-off) >26% additional water savings
Shower	9.5 lpm at 551.6 kPa (= 5.516 bar)	6 lpm at 3 bar for shower panels >58% additional water savings 8 lpm at 3 bar for other shower mixers >19% additional water savings
WC	4L/6L per flush	Dual flush: 3L/6L can be adjusted to 2L/4L (average: 3L) >66% additional water savings

Note : 100 kPa (kilo Pascal) = 1 bar.

<http://estidama.upc.gov.ae/estidama-villa-products-database/water-fixtures.aspx>.

PROMOTING THE ADVANTAGES OF WATER CONTROLS FOR PUBLIC PLACES

DELABIE

The Ecolabels for buildings (BREEAM, LEED, HQE, ESTIDAMA, etc.) do not include requirements concerning the performance of commercial water controls in the public places that they certify. **Yet, it is essential to underline the advantages of water controls in public and commercial places**, as they are more efficient than domestic water controls in terms of water consumption, and therefore energy consumption for heating the hot water. DELABIE electronic water controls **are more environmentally friendly**. The company is concerned about preserving the future and contributing to sustainable development by limiting the use of natural resources and by ensuring that it does not have a negative impact on the environment.

Choosing DELABIE means selecting environmentally friendly products.

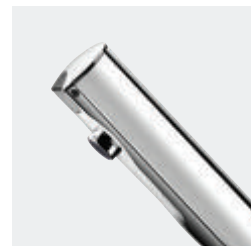
Water savings

Specialising in water controls with automatic shut-off, DELABIE demonstrates that the first principle of water saving is to **prevent waste** by regulating the amount of water used. The flow rates on DELABIE water controls are among the lowest in the world, providing better control of water consumption. **Split delivery** and **automatic shut-off** reduce waste and overcome user negligence. Water consumption is therefore restricted to the amount necessary. DELABIE's solutions and systems ensure significant water and energy savings, without impacting on efficiency or user comfort.

Energy savings and ecology

DELABIE electronic controls (mains or battery-operated) require very low levels of energy to operate. Battery-operated models have an average battery life span of 3 - 6 years. They use batteries which are widely available, affordable and recyclable. DELABIE water controls are made from durable materials that are **100% recyclable**, which ensures that they meet the highest ecological performance levels in their respective categories. In addition to their undeniable advantages in terms of sustainability, they also ensure reliability, easy maintenance and hygiene (in the fight against bacterial proliferation).

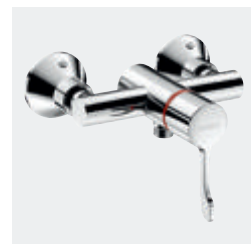
The DELABIE Group's ambition is to continue to expand internationally by establishing itself as a key player in the global sanitary ware market for public places. To do so, DELABIE has developed a large range of products that meet the needs of its clients and specifiers while respecting the environment and upholding its ethics.



Flow rate set at 3 lpm
with automatic shut-off



Flow rate set at 6 lpm



Flow rate set at 9 lpm



3L / 6L dual flush



Terminal Filters, controlling the bacteriological quality of water at the mixer/tap outlet

ANTI-BACTERIAL
SPOUTS

27



ANTI-BACTERIAL
CARTRIDGES

28



ANTI-BACTERIAL
SHOWER HEADS

29

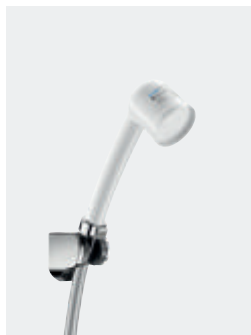




BIOFIL antibacterial cartridge



BIOFIL antibacterial spout



BIOFIL antibacterial shower head



BIOFIL antibacterial cartridge

CONTROLLING WATERBORNE HEALTH RISKS

Water, essential for hygiene, can also be a source of infection if its quality is not controlled. The proliferation of bacteria (*Legionella* spp., *Pseudomonas aeruginosa*, etc.) in the water supply or in mixers and taps may cause serious infections, especially for vulnerable people.

Water systems in all buildings open to the public should be monitored for *Legionella* (e.g. hotels and holiday accommodation, campsites, detention centres, etc.) and not just healthcare facilities. The HSE Approved Code of Practice and Guidance (ACOP) document L8 states that duty holders should: identify and assess sources of risk of exposure to *Legionella*; put in place precautions to prevent or control that risk; and monitor these measures to ensure that they remain effective.

This applies in all circumstances where the Health and Safety at Work Act 1974 applies. The prevention of health risks associated with pathogenic bacteria in water systems should be a constant concern for public buildings, and in particular Healthcare Facilities (see the current guidance opposite).

The BIOFIL range of terminal filters is a preventative or curative solution to secure the water quality at the point-of-use and protect the health of the user.

CURRENT GUIDANCE IN UK

HSE guidance HSG274 Part 2 (2014) and DoH Health Technical Memorandum (HTM) 04-01 Part B (2016) provide guidance for the control of legionella in hot and cold water systems and on providing safe water in healthcare premises respectively

Terminal filters prevent the discharge of planktonic legionella from the tap and shower outlets and may be used to provide water free of *P. aeruginosa*. They should be used primarily as a temporary measure until a permanent safe engineering solution is developed, although long-term use of such filters may be needed in some healthcare situations.

They may also be considered where a high level of disinfection of water systems may dislodge biofilm. **Point-of-use microfilters with a 0.1µm membrane constitute a means for removing legionella and *Pseudomonas aeruginosa* in water drawn off from the system.**

HTM 04-01 Part C (2016) provides advice on managing *Pseudomonas aeruginosa* in augmented care units

For direct contact with augmented care patients, water of a known satisfactory quality should be used, that is, either: water where testing has shown absence of *P. aeruginosa*; or water supplied through a POU filter; or sterile water (for example, for skin contact for babies in neonatal intensive care units).

HSG274 Part 2 states that monitoring for *Legionella* should be carried out:

- when water is treated with biocides or when distribution temperatures are reduced from HSE guidelines.
- where water treatment regime control levels are not being consistently achieved.
- where there is a high-risk of contamination e.g. hospitals and care homes.
- where an outbreak of legionellosis has been identified.

When a sample identifies a *Legionella* count above 100 CFU/Litre an immediate review of the control measures and risk assessment should be carried out to identify any remedial action required. Disinfection of the system should also be considered.

Terminal microfilters are a means to restore the bacteriological quality of water at the point-of-use (antibacterial shower heads, cartridges, etc.) until effective remedial action is put in place.

BIOFIL RANGE OF WATER FILTERS

DELABIE offers a collection of single use water filters: BIOFIL cartridges, shower heads and spouts Each BIOFIL filter incorporates a hollow fibre membrane with a water filtration threshold of 0.1 micron absolute-rated.

They deliver water free from microorganisms (bacteria, protozoa, fungi, particles in water systems, etc.), without changing its chemical composition.

They provide total protection against waterborne infection.

AREAS OF USE

Intended to guarantee water hygiene quality in the medical environment, BIOFIL filters are recommended for rinsing medical devices, hand washing or patient hygiene.

The BIOFIL range includes both non-sterile and sterile terminal filters to guarantee the delivery of bacteriologically controlled water:

- level 1: "Clean water" is intended for hand washing as well as all clinical services uses. It is delivered via non-sterile terminal filters.
- level 2: "Ultra-clean water" is intended for protected areas such as: burns units, plastic surgery departments, rinsing endoscopes and surgical hand washing. It is delivered via sterile terminal filters.

TOTAL CONTROL OF THE MANUFACTURING PROCESS

100% quality controlled

The fibre quality and porosity of the finished product are continuously monitored during the manufacturing process for 100% of the fibres.

100% recyclable fibre

DELABIE's hollow fibre membrane is made from 100% recyclable polyethylene (PE) fibres and is therefore fully recyclable, along with the whole product.

No additives or solvents are used during the manufacturing process.

HOLLOW FIBRE, AN INNOVATIVE, TECHNICAL SOLUTION

Microfiltration by hollow fibre

There are two main types of membrane used in terminal microfiltration devices: flat membrane or hollow fibre membrane.

DELABIE chose to use the hollow fibre membrane filtration technology.

THE PRINCIPLE OF HOLLOW FIBRE FILTRATION

Hollow fibre filter

The BIOFIL filter is made up of a collection of polyethylene hollow fibres grouped together into a unit. The fibres are extremely fine and flexible, with an outer diameter of 0.6mm and a thickness of several tens of microns.

The membranes are hollow and shaped like a straw (tubular).

Microporous structure

The hollow fibre membranes have multiple pores which vary in size from 0.01 - 0.1 micron. Each membrane consists of several surfaces with microporous structures (micro slits).

Bacteria and any particles in suspension that are larger than 0.1 micron are trapped by these structures and retained permanently on the external surface of the membrane.

External / Internal frontal filtration

DELABIE uses a frontal filtration system.

The water requiring treatment flows at right angles to the filter surface and passes through the membrane due to the pressure difference on either side of the membrane.

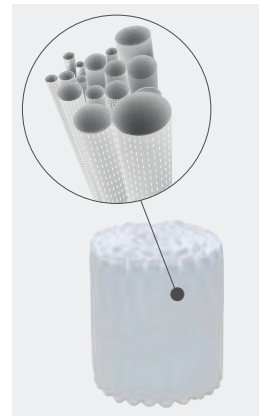
The water flows from the external to the internal surface of the fibre.

Bacteria and other microparticles that cannot pass through the gaps in the membrane structure are retained on the outer surface and therefore do not penetrate the membrane.

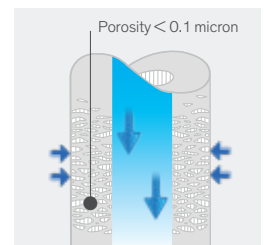
Filtration area / storage of bacteria

The filters' hollow-fibre filtration area makes it possible to filter a larger volume of water.

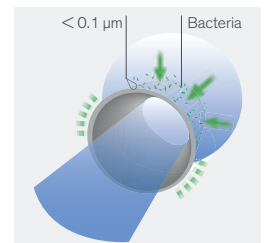
Consequently the storage capacity for bacteria and impurities trapped inside the filter is much greater.



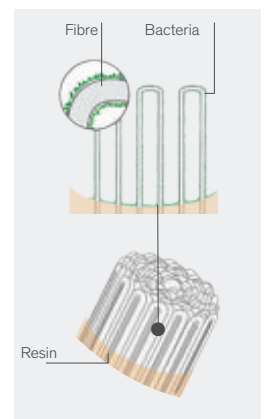
Hollow fibre membrane



Microporous structure



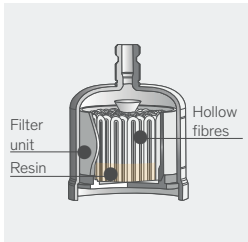
External/Internal frontal filtration



Large filtration area
Optimised bacteria storage



Bacteriologically controlled water



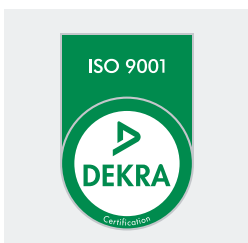
Section of the BIOFIL cartridge filter



Maximum lifespan



Sterilisation visual marker



Certified ISO 9001: 2008

BACTERIAL CHALLENGE

BIOFIL filters are approved using the ASTM F838* method.

This test confirms the effective bacterial retention power of the filters used for the decontamination of liquids.

The test involves passing a dose of *Brevundimonas diminuta* bacteria (ATCC 19146) which is the smallest bacterial species, through the filter at a minimum concentration of 10^7 CFU/cm² on the filtration surface.

A filter is designated a decontaminant if no colonies are counted in the filtered water.

When subjected to this test, all BIOFIL filters delivered an effluent free from bacteria, so they have a sterilising grade of 0.1 micron absolute-rated.

* Standard Test Method for Determining Retention of Membrane Filters Utilized for Liquid Filtration.

LIFESPAN

BIOFIL all-germ antibacterial filters can be used for up to **62 days** after initial installation.

After this time period, DELABIE recommends changing the filter to avoid any risk of retro-contamination from the bacteria concentrated in the filter.

Note: The amount of impurities in the water will vary between water systems. Filters will therefore become clogged at different rates.

If the filter becomes clogged prematurely, it is necessary to change it. We recommend pre-filtration upstream to filter out suspended solids and/or colloids, etc.

Bacterial proliferation is significantly reduced in an installation where the water is pre-filtered, and the life span of all equipment is greatly increased.

RESISTANT TO DIFFERENT CURATIVE TREATMENTS

BIOFIL filters will withstand frequent thermal and chemical shocks. During chemical or thermal shocks, impurities are trapped in the filter and reduce the filter life span. DELABIE therefore recommends changing the filter after any treatment.

Resistance to thermal shocks:

Temperatures of 70°C for a cumulative period of 30 minutes during its lifetime.

Resistance to chemical shocks:

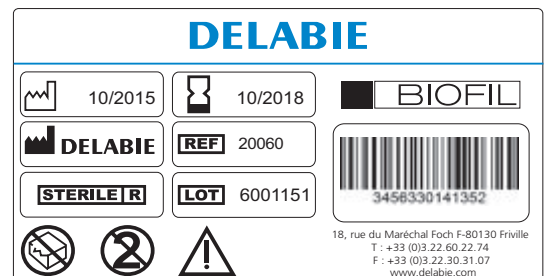
Chlorine levels up to 100 ppm at a flow rate of 0.6 lpm for 30 minutes.

OPTIMISED TRACEABILITY

To control the health risks associated with water, the whole process from the manufacture of the medical device components to the use of the finished product must be completely traceable.

Individual packet label

BIOFIL sterile filters have a unique batch number which can be easily traced back through the production process.



Double labelling on the filter

The sterile and non-sterile filters are supplied with 2 waterproof labels which identify the product and ensure traceability when the filter is changed. One is positioned on the product, the other can be removed and transferred to the record log, ensuring traceability.



OTHER FEATURES

Sterilisation complies with European standard EN ISO 11137

After manufacture, the BIOFIL filters are sterilised using gamma rays.

Each individual packet has a **visual marker showing that it has been sterilised.**

After gamma sterilisation, BIOFIL filters have a shelf life of 3 years. The product expiry date is marked on each individual packet.

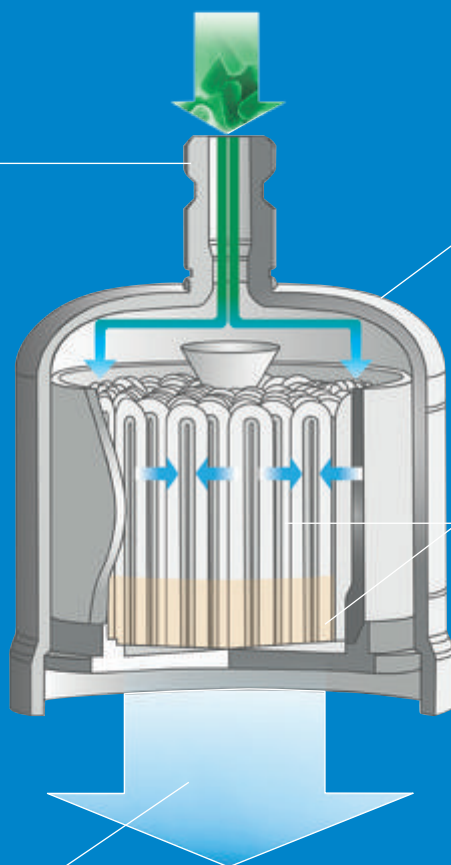
Certificate of sanitary compliance

All BIOFIL filters conform to the CPDW directive and the Order of 29 May 1997, as amended, and the French Ministry of Health Circular DGS/SD7A2002 no. 571 of 25 November 2002.

WRAS

All Biofil filters are WRAS approved. WRAS Approval demonstrates that a product complies with the Water Supply (Water Fittings) Regulations and Scottish Water Byelaws. The WRAS approval standard is accepted as a **quality benchmark** by water suppliers who enforce the Water Regulations and Byelaws.

- EASY TO INSTALL**
- Simple to connect to the outlet requiring treatment, no tools required, using push-fit connectors
 - New: screw-in shower head attaches in seconds to the shower hose



- COMPACT DIMENSIONS**
thanks to the compact fibre
- Fits most taps or showers currently available (even those with a low drop height)
 - Reduced risk of retro-contamination

- SUPERIOR PERFORMANCE**
- Very large filtration area: 2× more water volume than for a flat membrane (1400cm² versus 500cm²)
 - Reduced risk of premature clogging: large capacity to store bacteria inside the filter
 - Extended filter life: 62 days
 - Flow rate 12 lpm at 3 bar

TOTAL PROTECTION
Bacteriologically controlled water:
hollow-fibre membrane
with a water filtration threshold
of 0.1µm absolute-rated

- EXCLUSIVE TO DELABIE:
SPOUT FILTER**
- No additional space required (drop height maintained)
 - Removes the spout as a potential contaminant



- EASY TO INSTALL**
Suitable for mixers/taps
with a removable BIOCLIP spout,
no tools required

 : Water flow through the filter





- **BIOSAFE:** immediate protection against waterborne infections
- **Spout filter (exclusive to DELABIE):** suitable for all mixers with a BIOCLIP spout; no additional space required (drop height maintained); no need to add any devices to the end of the spout. Removes the spout as a potential contaminant.

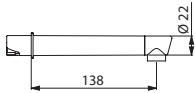
Anti-bacterial BIOFIL spout

Single use spout filter

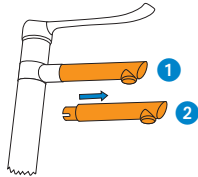


- Single use spout filter, sterilising grade **0.1µm absolute-rated**.
- **Can be installed instead of BIOCLIP spouts.**
- Hydrophilic polyethylene hollow fibres.
- Filtration area: 1,200cm².
- Filtration flow rate: 6 lpm* at 3 bar (filter only, excludes any flow rate restrictor/regulator in the mixer).
- Maximum upstream pressure at point-of-use: 5 bar.
- Maximum lifespan: **62 days** after installation.
- Compatible with and resistant to chemical and thermal shocks.
- **Available in two models:**
 - **Sterile anti-bacterial filters:**
ref. 20040.10P individually wrapped, sterile.
 - **Non-sterile anti-bacterial filters:**
ref. 30040.10P individually wrapped, non-sterile.
- Weight: 40g.

* Average flow rate during the product lifespan.



20040.10P/30040.10P



Quick and easy to install:

- 1 Pull the BIOFIL spout towards you to remove it.
- 2 Insert another spout filter in its place.

10 BIOFIL spouts	
Sterile	20040.10P
Non-sterile	30040.10P



- **BIOSAFE:** immediate protection against waterborne infections
- **Filtration surface:** twice the size of flat membranes
- **Hollow fibres withstand clogging:** filter lifespan is increased
- **Compact fibres:** require less space, suitable for all types of mixers/taps with no risk of retro-contamination

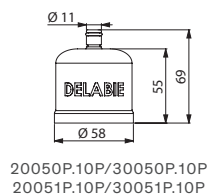
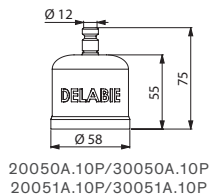
Anti-bacterial BIOFIL cartridge

Single use cartridge filter



- Single use cartridge filter, sterilising grade **0.1µm absolute-rated**.
- Hydrophilic polyethylene hollow fibres.
- Filtration area: 1,400cm².
- Filtration flow rate: 12 lpm* at 3 bar (filter only, excludes any flow rate restrictor/regulator in the shower/mixer outlet).
- Maximum upstream pressure at point-of-use: 5 bar.
- Maximum lifespan: **62 days** after installation.
- Compatible with and resistant to chemical and thermal shocks.
- **Available in two models:**
 - **Sterile anti-bacterial filters:** ref. 20050A.10P, 20050P.10P and 20051A.10P, 20051P.10P individually wrapped, sterile.
 - **Non-sterile anti-bacterial filters:** ref. 30050A.10P, 30050P.10P and 30051A.10P, 30051P.10P individually wrapped, non-sterile.
- Weight: 80g.

* Average flow rate during the product lifespan.



10 BIOFIL cartridges A (without O-ring) – Rain effect	
Sterile	20050A.10P
Non-sterile	30050A.10P
10 BIOFIL cartridges P (with O-ring) – Rain effect	
Sterile	20050P.10P
Non-sterile	30050P.10P
10 BIOFIL cartridges A (without O-ring) – Laminar flow	
Sterile	20051A.10P
Non-sterile	30051A.10P
10 BIOFIL cartridges P (with O-ring) – Laminar flow	
Sterile	20051P.10P
Non-sterile	30051P.10P

Related products

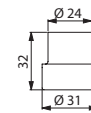


Push-fit connector for cartridge A

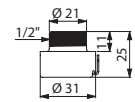
Ref. 20050A.10P/30050A.10P

Ref. 20051A.10P/30051A.10P

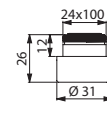
- Connector for installing cartridge A (does not require tools or the water to be shut off).



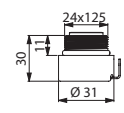
820022



820023



820024



820025

Push-fit connector for BIOFIL cartridge A	
F22/100	820022
M24/100	820024
M1/2"	820023
M24/125	820025

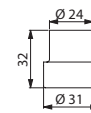


Push-fit connector for cartridge P

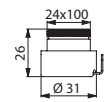
Ref. 20050P.10P/30050P.10P

Ref. 20051P.10P/30051P.10P

- Connector for installing cartridge P (does not require tools or the water to be shut off).



820122



820124

Push-fit connector for BIOFIL cartridge P	
F22/100	820122
M24/100	820124



- **BIOSAFE:** immediate protection against waterborne infections
- **Filtration surface:** twice the size of flat membranes
- **Hollow fibres withstand clogging:** filter lifespan is increased
- **Easy to install:** shower head quickly screws in to the flexible shower hose or clips on via the push-fit connector

Anti-bacterial BIOFIL shower head

Single use shower head filter



Related product



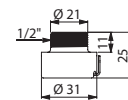
Push-fit connector for shower head

Ref. 20060.10P/30060.10P

- Connector for installing shower heads (clip-on model). Does not require tools or the water to be shut off.

- Single use shower head filter, sterilising grade **0.1µm absolute-rated**.
- Hydrophilic polyethylene hollow fibres.
- Filtration area: 1,400cm².
- Filtration flow rate: 12 lpm* at 3 bar (filter only, excludes any flow rate restrictor/regulator in the shower/mixer outlet).
- Maximum upstream pressure at point-of-use: 5 bar.
- Maximum lifespan: **62 days** after installation.
- Compatible with and resistant to chemical and thermal shocks.
- **Available in two models:**
 - **Sterile anti-bacterial filters:**
ref. 20060.10P and 20061.10P individually wrapped, sterile.
 - **Non-sterile anti-bacterial filters:**
ref. 30060.10P and 30061.10P individually wrapped, non-sterile.
- Weight: 120g.

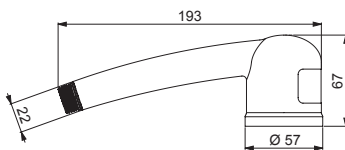
* Average flow rate during the product lifespan.



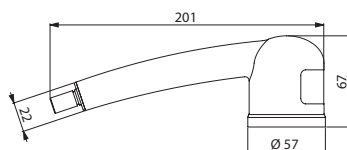
820023

Push-fit connector for BIOFIL shower heads

M1/2"	820023
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20061.10P/30061.10P



20060.10P/30060.10P

10 BIOFIL shower heads

Threaded shower head (attaches directly to flexible hose)

Sterile	20061.10P
Non-sterile	30061.10P

Push-fit shower head (requires a push-fit connector)

Sterile	20060.10P
Non-sterile	30060.10P

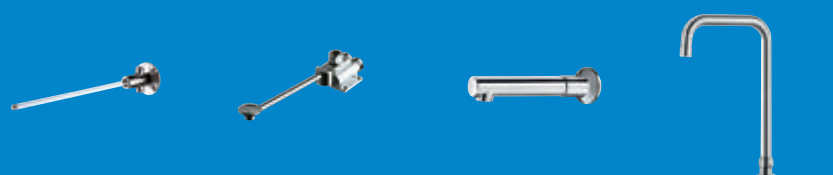


Non-contact controls for washbasins, sinks and troughs

ELECTRONIC CONTROLS 36



FOOT OR KNEE-OPERATED CONTROLS, SPOUTS 46





BIOSAFE: INFECTION CONTROL

Opens/closes automatically, with no manual contact

DELABIE electronic controls are operated by active infrared detection. Flow opens when the detector senses hands and shuts off automatically when hands are removed from the detection zone.

No manual contact prevents the spread of germs by hand.

Anti-bacterial duty flush programme

Water stagnation is one of the main causes of bacterial development in water systems. All the studies show contamination of electronic controls occurs on those mixers and taps that do not have an automatic flush. If a mixer or tap is used daily, there is a very low risk of bacterial development. However, if there is no regular draw-off, which occurs in 20 - 40% of mixers and taps installed in patient accommodation, water in the pipework is not renewed, which inevitably favours the development of bacteria.

To overcome this problem, DELABIE electronic controls have an anti-bacterial duty flush programme.

An automatic flush takes place for approximately 60 seconds every 24 hours after the last use

(programmable on some models). As a result, bacteria do not have the opportunity to develop.

Reduced-stagnation solenoid valve

Most solenoid valves are fitted with a rubber membrane behind which water stagnates and is not renewed. This can lead to bacterial proliferation.

DELABIE has developed a patented technology that operates without a membrane (patented system), supplied with the majority of electronic controls. With this **piston-operated solenoid valve**, water is drained and renewed with every use **which reduces bacterial niches**.

The solenoid valves' self-cleaning system with a calibrated groove reduces the build-up of dirt. Furthermore, its slow closure eliminates water-hammer.

Hygienic flow straightener

Unlike conventional aerators, DELABIE flow straighteners are specially made from **Hostaform® design**, a material that is highly scale-resistant (build-up of scale is 10 times slower).

It minimises water retention and the build-up of dirt, and prevents the spread of germs.

PEX flexible hoses

These flexible hoses will withstand the thermal and chemical shocks undertaken in healthcare facilities for preventative or curative treatments against the development of bacteria.

Soft-tempered copper tails are available on request, and are also able to withstand thermal shocks.

90% WATER AND ENERGY SAVINGS

Water savings

Compared to conventional mixers and taps, DELABIE electronic controls can offer maximum water savings. They ensure the manager's water bills can be reduced whilst preserving user comfort.

• Automatic shut-off and split delivery

The mixer or tap shuts off automatically when hands are removed from the detection zone.

This removes the risk of waste through negligence. The anti-blocking security activates to prevent the mixer or tap from flowing continuously. The flow time is reduced to the necessary minimum (wetting, rinsing).

• Flow rate regulated at 3 lpm

DELABIE electronic mixers and taps are regulated at **3 lpm**. The flow rate remains constant regardless of pressure fluctuations in the system. The flow rate is pre-set at 3 lpm at 3 bar. However, it can be adjusted from 1.5 (see *Ecolabels*) to 6 lpm.

Energy savings

DELABIE electronic mixers and taps (mains and battery-operated) do not require much energy to operate. DELABIE has chosen infrared active pulse technology, **a low-power consumption solution**.

The infrared beam is emitted intermittently, saving energy while ensuring effective detection. DELABIE battery-operated electronic models have an average life span of **350,000 cycles** (i.e. 3 to 6 years) depending on the frequency of use.

The Lithium batteries are widely available, affordable and recyclable.

The significant **hot water savings** provided by DELABIE mixers and taps also result in energy savings.

Ecolabels

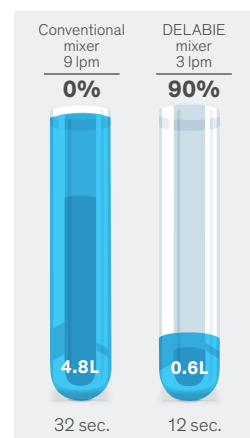
The water and energy saving performance of DELABIE electronic controls means that the buildings achieve the highest performance standards for international rating schemes such as LEED, BREEAM, HQE or ESTIDAMA (additional information pages 16 - 19).



Reduced-stagnation solenoid valve






No manual contact



Water savings per use

COMPARISONS OF WATER CONSUMPTION

Comparison between a conventional mixer and a DELABIE electronic mixer

Flow rate	Wetting	Soaping	Rinsing	Water consumption
9L	 5 sec.	 20 sec.	 7 sec.	4.8L 32 sec.
3L	 5 sec.		 7 sec.	0.6L 12 sec.



Resistant to intensive use



Reinforced fixings



Diagnostic LED



Easy to maintain



SPECIFICALLY DESIGNED FOR COMMERCIAL ENVIRONMENTS

Resistant to intensive use and vandalism

DELABIE electronic controls have been specifically designed to withstand intensive use and vandalism, both voluntary and involuntary.

The mixer and tap bodies are made from chrome-plated solid brass, fitted with **shockproof** mechanisms and sensors. **Reinforced fixings** will stand up to intensive use. **Streamlined designs** discourage attempts at vandalism.

To prevent abuse and waste, all models are fitted with a system to avoid blocking during flow. For areas that require tamperproof installations, there are recessed and cross wall versions which have mechanisms that cannot be accessed by the user.

Easy to install

DELABIE products are **easy to install and adjustments are kept to a minimum** in order to save time during installation.

• Independent electronic control unit, 230/12V mains or 6V Lithium batteries*: BINOPTIC, TEMPOMATIC 2 and PRO, 20164, 20870 and 20871 models:

Depending on the model, there is an option to adjust the presence detection distance, to change the operating mode (On/Off or automatic) and change the duty flush settings. The battery-operated models work autonomously for 3 to 6 years. The electronic control units are waterproof (IP65) with diagnostic LEDs to facilitate servicing.

• Electronic unit and solenoid valve integrated in the body of the mixer/tap*: TEMPOMATIC 4 model:

Can be installed on any isolated point-of-use, for new builds as well as renovation.

6V Lithium battery*:

There are no electrical connections required. Simply connect the flexibles to the supply pipes in the same way as for a conventional mixer/tap. No special adjustment is necessary; the mixer/tap is ready to operate independently for 3 to 6 years. A red LED will flash for 15 days to indicate that the battery life is low. The battery can be changed without shutting off the water supply or removing the mixer/tap.

230/6V mains supply (plug in or recessed)*:

Simply connect the flexibles to the supply pipes and connect the electrical supply to the mixer/tap via a plug and socket or recessed connection close to the basin. This does not require any specific maintenance (no battery changes).

* Depending on model

Reliable presence detection

DELABIE has chosen the most reliable detection system: **infrared active pulse**. It can't be adjusted or affected by variations in light levels. On models with a sensor at the end of the spout, the infrared beam **adapts automatically**, to ensure that the hands are detected in any position.

Minimal servicing and easy to maintain

The **scale-resistant** solutions (flow straighteners, mechanisms) and the filters ensure minimal servicing. **The spare parts are standardised** to ensure quick and easy replacement by the maintenance staff. The electronic control units are fitted with LEDs to aid **diagnostic** checks, and **access** to the components (battery, solenoid valve) is **direct**, without having to remove the mixer/tap.

Technical characteristics

Operating pressure	1 - 5 bar, 3 bar recommended
Pressure differential CW / HW	$\Delta P < 1$ bar
Electrical supply*	230V / 50 Hz class II (without earth connection)
Electronic unit*	Independent waterproof IP65
6V Lithium battery*	123 or 223 standard batteries Average life span ~350,000 cycles or 3 - 6 years
Duty flush programme can be adjusted*	Off or 60 sec. 12hr or 24hr after the last use
Automatic shut-off in event of negligence	Prevents blocking in the open position
Temperature limiter	Can be adjusted
HW supply	55°C max.
Recommended installation height for wall-mounted taps/mixers	110 - 200mm above base of bowl
CE	Conforms with European directives CEM 2014/30/UE and BT 2014/35/UE

* Depending on model

10-year warranty against any manufacturing defects.

DESIGN

DELABIE products, known for their endurance and reliability, have a timeless design. The diversity of the product range fits in perfectly with any commercial installation. In some environments i.e. psychiatric units, the products must be durable and safe: concealed mechanisms, designs that cannot be removed, etc. Aesthetic products are subject to less vandalism as they are better respected. The smooth shape of the taps reduces the build-up of dirt and facilitates cleaning. Easy but secure access to the control mechanisms provides easy maintenance.

SENSOR AT THE END OF THE SPOUT
Hands can be detected in any position

6V LITHIUM BATTERY
Average life span 3 to 6 years (~350,000 cycles).
Replace without removing the mixer/tap
or shutting off the water

**INTEGRATED ELECTRONIC UNIT
PROTECTED
BY A WATERPROOF CAP**
Easy to maintain

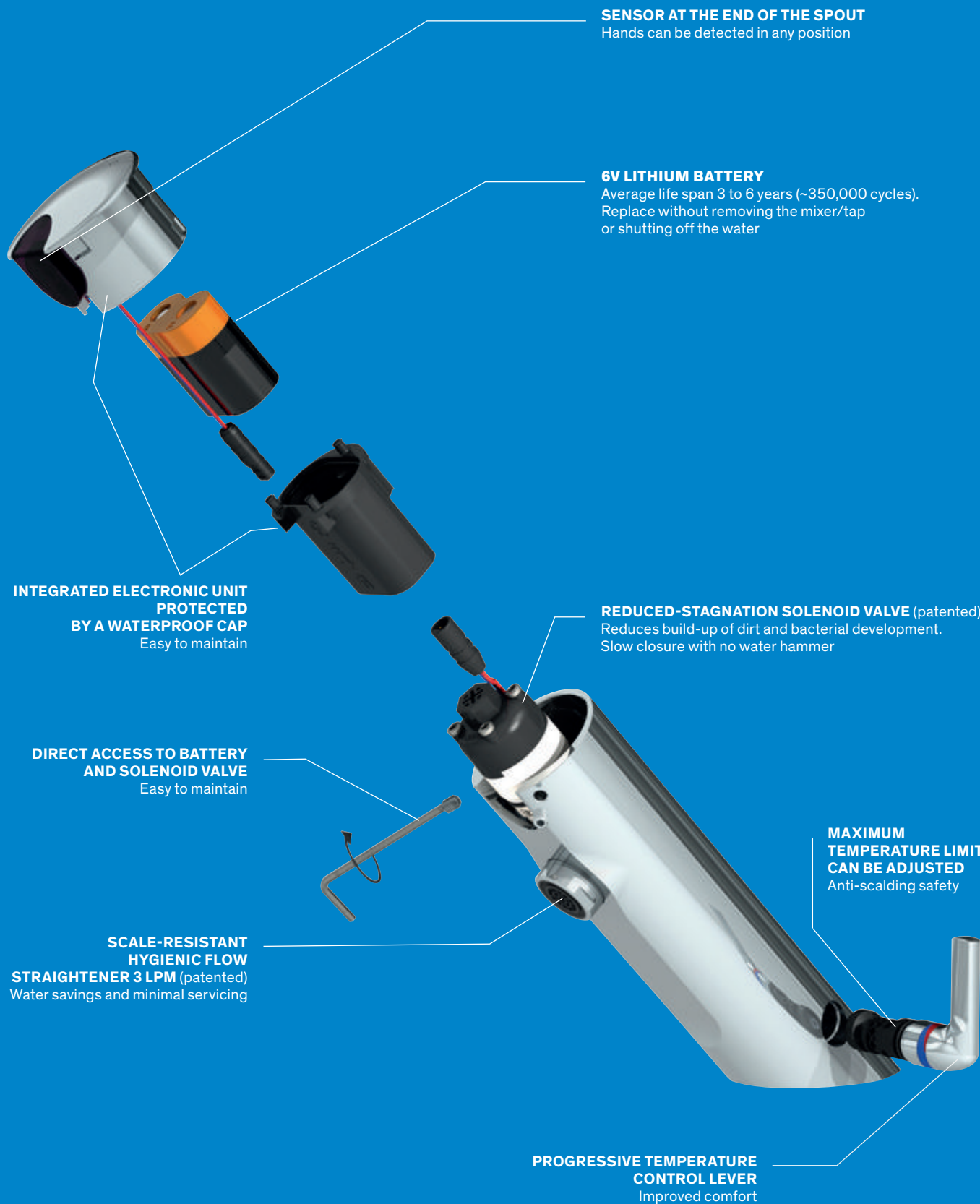
REDUCED-STAGNATION SOLENOID VALVE (patented)
Reduces build-up of dirt and bacterial development.
Slow closure with no water hammer

**DIRECT ACCESS TO BATTERY
AND SOLENOID VALVE**
Easy to maintain

**SCALE-RESISTANT
HYGIENIC FLOW
STRAIGHTENER 3 LPM** (patented)
Water savings and minimal servicing

**MAXIMUM
TEMPERATURE LIMITER
CAN BE ADJUSTED**
Anti-scalding safety

**PROGRESSIVE TEMPERATURE
CONTROL LEVER**
Improved comfort

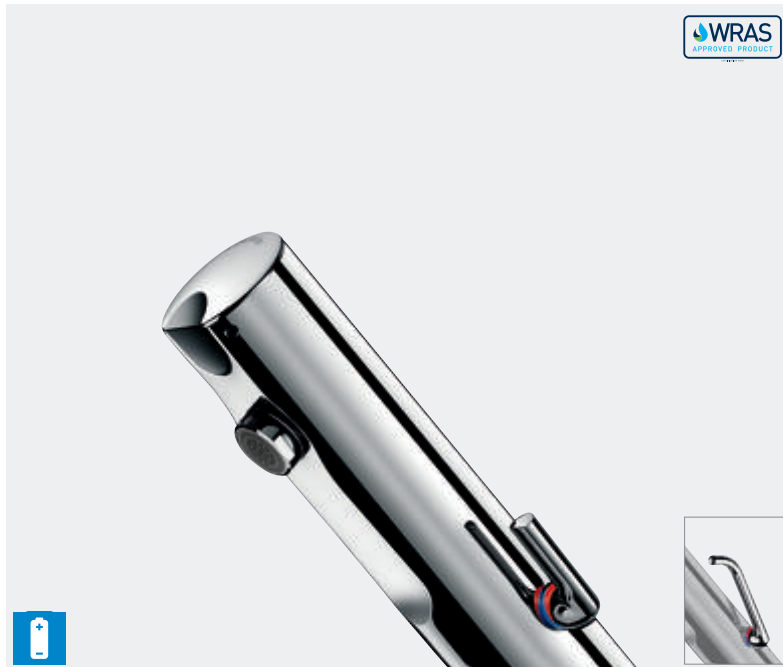




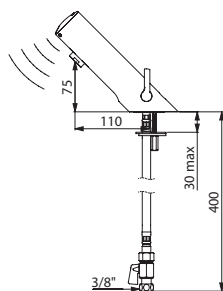
- **BIOSAFE** infection control: no manual contact, reduced-stagnation solenoid valve, anti-bacterial duty flush
- **Water savings:** 90%
- **Easy to install:** installed in the same way as a conventional mixer, electronic system integrated into the body of the mixer/tap
- **Easy to replace the battery:** after ~350,000 cycles, without removing the mixer/tap or shutting off the water supply

TEMPOMATIC MIX 4 basin mixer

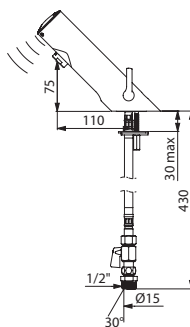
Electronic mixer with integrated battery



- **Battery-operated with integrated 223 6V Lithium battery.**
- **Reduced-stagnation solenoid valve and electronic unit integrated** into the body of the mixer/tap.
- **Flow rate pre-set at 3 lpm** at 3 bar, can be adjusted 1.5 - 6 lpm.
- **Scale-resistant flow straightener.**
- **Duty flush** (~60 sec. every 24hr after last use).
- Active, infrared presence detection, sensor at the end of the spout optimises detection.
- Chrome-plated solid brass body.
- Cap fixed in place by 2 concealed screws.
- PEX flexibles with filters and non-return valves.
- Fixing reinforced by 2 stainless steel rods.
- Anti-blocking security.
- Side temperature control with adjustable maximum temperature limiter.



4900006



49000615

TEMPOMATIC MIX 4 battery-operated mixer	
With stopcocks F $\frac{3}{8}$ "	4900006
With stopcocks Ø 15mm for compression fittings	49000615
Without stopcocks, F $\frac{3}{8}$ "	490106

For long lever, please add LH after the reference

TEMPOMATIC 4 basin tap

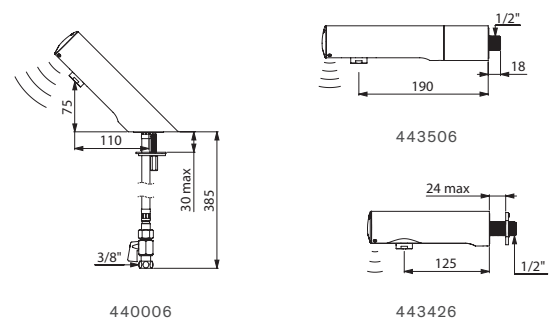
Electronic tap with integrated battery



Deck-mounted electronic tap



Wall or panel-mounted electronic tap (M $\frac{1}{2}$ "



TEMPOMATIC 4 deck-mounted battery-operated tap	
With stopcock F $\frac{3}{8}$ "	440006
With stopcock Ø 15mm for compression fittings	44000615
Without stopcocks, F $\frac{3}{8}$ "	440106
TEMPOMATIC 4 wall-mounted battery-operated tap	
L. 125mm	443406
L. 190mm	443506
TEMPOMATIC 4 battery-operated tap for panels ≤ 24mm	
L. 125mm	443426
L. 190mm	443526

We recommend installing a TMV (see page 90)



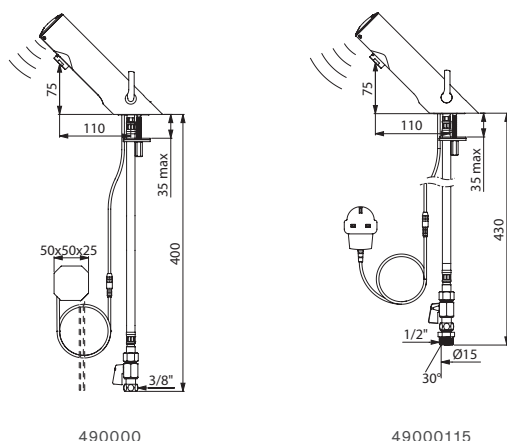
- **BIOSAFE** infection control: no manual contact, reduced-stagnation solenoid valve, anti-bacterial duty flush
- **Water savings:** 90%
- **Easy to install:** electronic system integrated into mixer/tap body, recessed or plug-in mains supply

TEMPOMATIC MIX 4 basin mixer

Electronic mixer with mains supply



- **230/6V mains supply.**
- **Reduced-stagnation solenoid valve and electronic unit integrated** into the body of the mixer.
- **Flow rate pre-set at 3 lpm** at 3 bar, can be adjusted 1.5 - 6 lpm.
- **Scale-resistant flow straightener.**
- **Duty flush** (~60 sec. every 24hr after last use).
- Active, infrared presence detection, sensor at the end of the spout optimises detection.
- Chrome-plated solid brass body.
- Cap fixed in place by 2 concealed screws.
- PEX flexibles with filters and non-return valves.
- Fixing reinforced by 2 stainless steel rods.
- Anti-blocking security.
- Side temperature control with adjustable maximum temperature limiter.



490000

49000115

TEMPOMATIC MIX 4 mixer with mains supply

Recessed mains supply

With stopcocks F $\frac{3}{8}$ "	490000
With stopcocks Ø 15mm for compression fittings	49000015
Without stopcocks, F $\frac{3}{8}$ "	490100

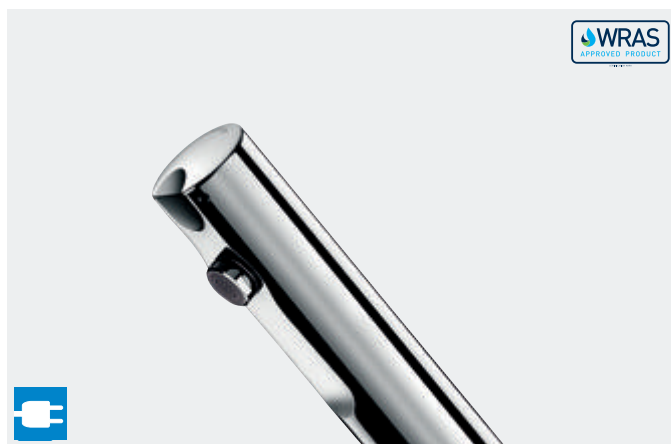
Plug-in mains supply

With stopcocks F $\frac{3}{8}$ ", European plug	490001
With stopcocks Ø 15mm for compression fittings, British plug	49000115
Without stopcocks, F $\frac{3}{8}$ ", European plug	490101

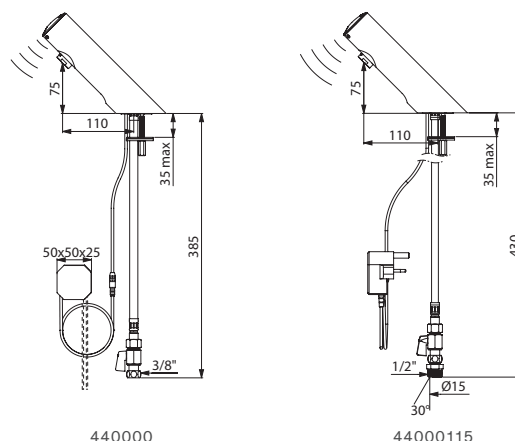
For long lever, please add LH after the reference

TEMPOMATIC 4 basin tap

Electronic tap with mains supply



- **230/6V mains supply.**
- **Reduced-stagnation solenoid valve and electronic unit integrated** into the body of the tap.
- **Flow rate pre-set at 3 lpm** at 3 bar, can be adjusted 1.5 - 6 lpm.
- **Scale-resistant flow straightener.**
- **Duty flush** (~60 sec. every 24hr after last use).
- Active, infrared presence detection, sensor at the end of the spout optimises detection.
- Chrome-plated solid brass body.
- Cap fixed in place by 2 concealed screws.
- PEX flexible with filter.
- Fixing reinforced by 2 stainless steel rods.
- Anti-blocking security.



440000

44000115

TEMPOMATIC 4 tap with mains supply

Recessed mains supply

With stopcocks F $\frac{3}{8}$ "	440000
With stopcocks Ø 15mm for compression fittings	44000015
Without stopcocks, F $\frac{3}{8}$ "	440100

Plug-in mains supply

With stopcocks F $\frac{3}{8}$ ", European plug	440001
With stopcocks Ø 15mm for compression fittings, British plug	44000115
Without stopcocks, F $\frac{3}{8}$ ", European plug	440101

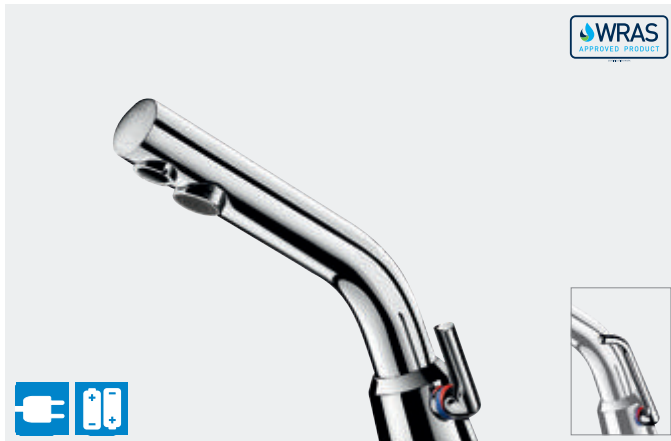
We recommend installing a TMV (see page 90)



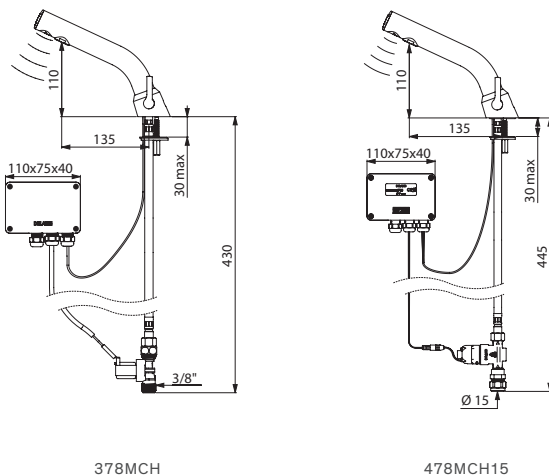
- **BIOSAFE** infection control: no manual contact, anti-bacterial duty flush, spout with smooth interior and low water volume, reduced-stagnation solenoid valve on the battery-operated models
- **Water savings:** 90%
- **Maintenance:** LED diagnostic aids

BINOPTIC MIX basin mixer

Electronic mixer, mains supply or battery-operated



- **Independent IP65 electronic control unit.**
- **230/12V mains supply with transformer or 123 6V Lithium battery.**
- **Flow rate pre-set at 3 lpm** at 3 bar, can be adjusted 1.5 - 6 lpm.
- **Scale-resistant flow straightener.**
- **Adjustable duty flush** (pre-set flush ~60 sec. every 24hr after last use).
- Active, infrared presence detection, sensor at the end of the spout optimises detection.
- Chrome-plated brass body.
- PEX flexibles with filters and solenoid valves.
- Fixing reinforced by 2 stainless steel rods.
- Anti-blocking security.
- **Spout with smooth interior** and low water volume (reduces bacterial development).
- Side temperature control with adjustable maximum temperature limiter.

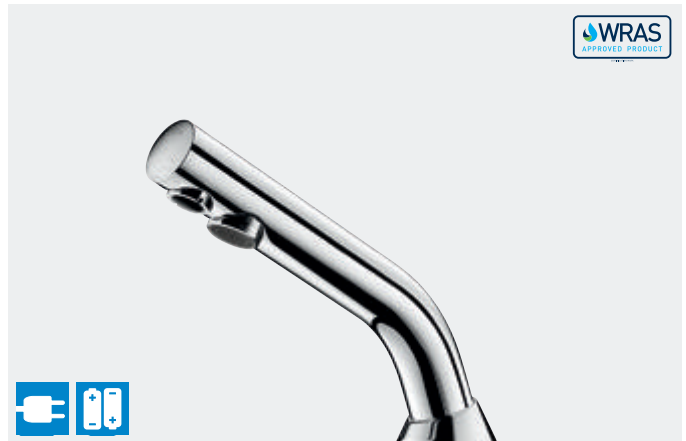


BINOPTIC MIX mixer	
230/12V mains supply, M¾"	378MCH
230/12V mains supply, Ø 15mm for compression fittings	378MCH15
6V Lithium battery-operated, M¾"	478MCH
6V Lithium battery-operated, Ø 15mm for compression fittings	478MCH15

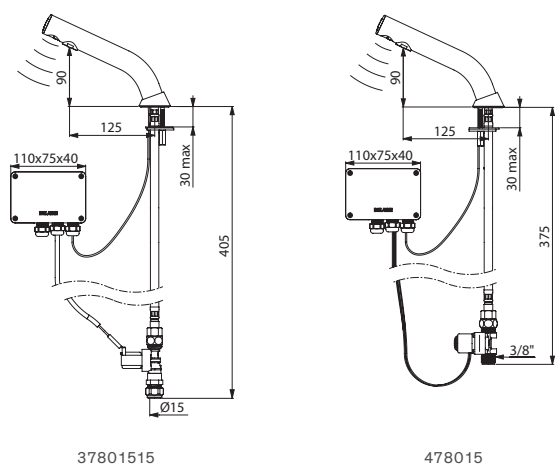
[For long lever, please add LH after the reference](#)

BINOPTIC basin tap

Electronic tap, mains supply or battery-operated



- **Independent IP65 electronic control unit.**
- **230/12V mains supply with transformer or 123 6V Lithium battery.**
- **Flow rate pre-set at 3 lpm** at 3 bar, can be adjusted 1.5 - 6 lpm.
- **Scale-resistant flow straightener.**
- **Adjustable duty flush** (pre-set flush ~60 sec. every 24hr after last use).
- Active, infrared presence detection, sensor at the end of the spout optimises detection.
- Chrome-plated brass body.
- PEX flexible with filter and solenoid valve.
- Fixing reinforced by 2 stainless steel rods.
- Anti-blocking security.
- **Spout with smooth interior** and low water volume (reduces bacterial development).



BINOPTIC tap	
230/12V mains supply, M¾"	378015
230/12V mains supply, Ø 15mm for compression fittings	37801515
6V Lithium battery-operated, M¾"	478015
6V Lithium battery-operated, Ø 15mm for compression fittings	47801515

[We recommend installing a TMV \(see page 90\)](#)



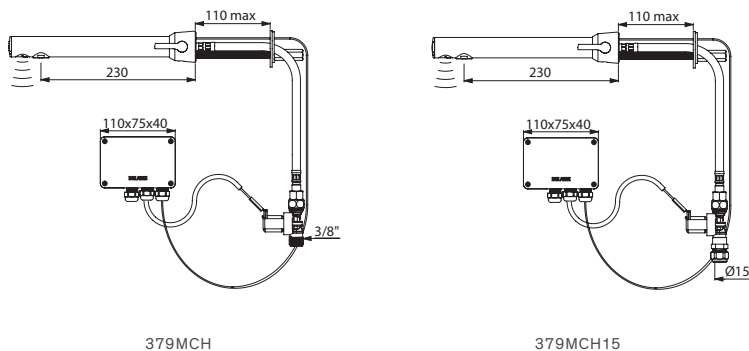
- **BIOSAFE** infection control: no manual contact, anti-bacterial duty flush, spout with smooth interior and low water volume
- **Water savings:** 90%
- **Maintenance:** LED diagnostic aids

BINOPTIC MIX mixer for basins, sinks or troughs

Cross wall mixer, mains supply



- Independent IP65 electronic control unit.
- 230/12V mains supply with transformer.
- Flow rate pre-set at 3 lpm at 3 bar, can be adjusted 1.5 - 6 lpm.
- Scale-resistant flow straightener.
- Adjustable duty flush (pre-set flush ~60 sec. every 24hr after last use).
- Active, infrared presence detection, sensor at the end of the spout optimises detection.
- Filters and solenoid valves.
- Chrome-plated brass body.
- Chrome-plated spout for cross wall installation ≤ 110 mm.
- Cable for sensor, flexibles and mounting all pass through the same hole.
- Anti-blocking security.
- Spout with smooth interior and low water volume (reduces bacterial development).
- Side temperature control with adjustable maximum temperature limiter.



BINOPTIC MIX cross wall mixer

M $\frac{3}{8}$ "	379MCH
Ø 15mm for compression fittings	379MCH15
M $\frac{3}{8}$ ", with long temperature control lever	379MCHL

BINOPTIC tap for basins, sinks or troughs

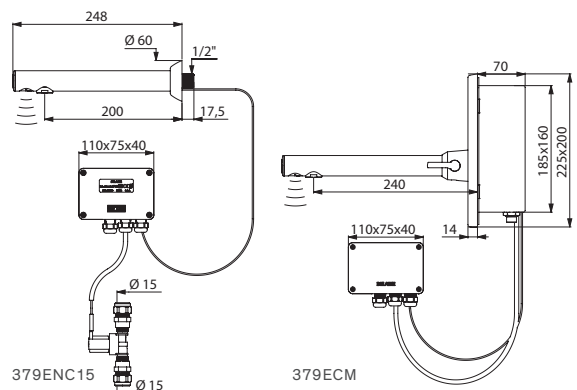


Electronic tap for recessed or wall installation ≤ 190 mm

BINOPTIC MIX mixer for basins, sinks or troughs



Recessed electronic mixer on stainless steel wall plate.



BINOPTIC wall-mounted tap

Recessed spout L. 200mm	379ENC
Recessed spout L. 200mm, Ø 15mm for compression fittings	379ENC15
For walls ≤ 190 mm, spout L. 205mm	379DER
For walls ≤ 190 mm, spout L. 205mm, Ø 15mm for compression fittings	379DER15
For walls ≤ 190 mm, spout L. 135mm	379D13
For walls ≤ 190 mm, spout L. 135mm, Ø 15mm for compression fittings	379D1315

BINOPTIC MIX recessed mixer

Recessed, stainless steel wall plate	379ECM
With long temperature control lever	379ECML



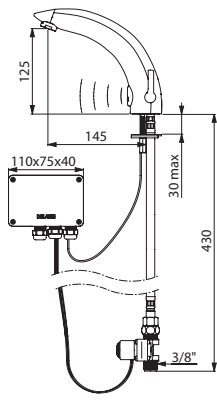
- **BIOSAFE** infection control: no manual contact, anti-bacterial duty flush, reduced-stagnation solenoid valve
- **Water savings:** 90%
- **Maintenance:** LED diagnostic aids

TEMPOMATIC MIX 2 basin mixer

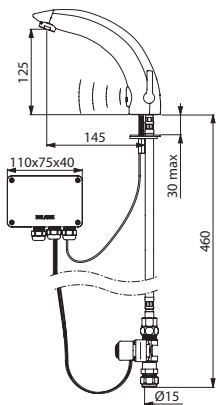
Electronic mixer, battery-operated



- **Independent IP65 electronic control unit.**
- **Battery-operated with 123 6V Lithium battery.**
- **Flow rate pre-set at 3 lpm** at 3 bar, can be adjusted 1.5 - 6 lpm.
- **Scale-resistant flow straightener.**
- **Adjustable duty flush** (pre-set flush ~60 sec. every 24hr after last use).
- Shockproof infrared presence detection sensor.
- Chrome-plated solid brass body.
- PEX flexibles with filters and reduced-stagnation solenoid valves.
- Fixing reinforced by 2 stainless steel rods.
- Anti-blocking security.
- Side temperature control with adjustable maximum temperature limiter.



494006



49400615

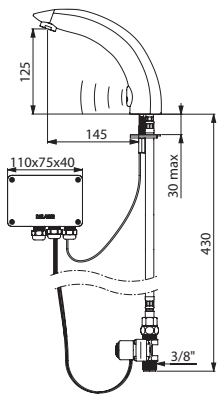
TEMPOMATIC MIX 2 battery-operated mixer	
M $\frac{3}{8}$ "	494006
Ø 15mm for compression fittings	49400615
For long lever, please add LH after the reference	

TEMPOMATIC 2 basin tap

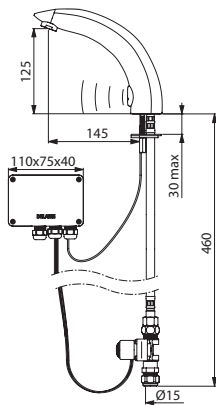
Electronic tap, battery-operated



- **Independent IP65 electronic control unit.**
- **Battery-operated with 123 6V Lithium battery.**
- **Flow rate pre-set at 3 lpm** at 3 bar, can be adjusted 1.5 - 6 lpm.
- **Scale-resistant flow straightener.**
- **Adjustable duty flush** (pre-set flush ~60 sec. every 24hr after last use).
- Shockproof infrared presence detection sensor.
- Chrome-plated solid brass body.
- PEX flexibles with filters and reduced-stagnation solenoid valves.
- Fixing reinforced by 2 stainless steel rods.
- Anti-blocking security.



444006



44400615

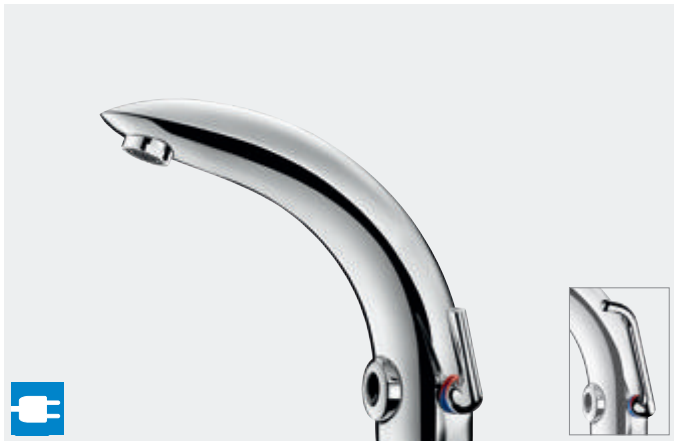
TEMPOMATIC 2 battery-operated tap	
M $\frac{3}{8}$ "	444006
Ø 15mm for compression fittings	44400615
We recommend installing a TMV (see page 90)	



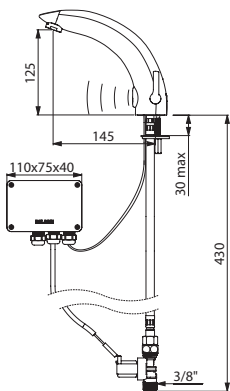
- **BIOSAFE** infection control: no manual contact, anti-bacterial duty flush
- **Water savings:** 90%
- **Maintenance:** LED diagnostic aids

TEMPOMATIC MIX 2 basin mixer

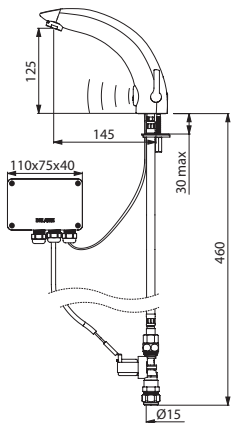
Electronic mixer with mains supply



- **Independent IP65 electronic control unit.**
- **230/12V mains supply with transformer.**
- **Flow rate pre-set at 3 lpm** at 3 bar, can be adjusted 1.5 - 6 lpm.
- **Scale-resistant flow straightener.**
- **Adjustable duty flush** (pre-set flush ~60 sec. every 24hr after last use).
- Shockproof infrared presence detection sensor.
- Chrome-plated solid brass body.
- PEX flexibles with filters and solenoid valves.
- Fixing reinforced by 2 stainless steel rods.
- Anti-blocking security.
- Side temperature control with adjustable maximum temperature limiter.



494000



49400015

TEMPOMATIC MIX 2 mains supply mixer

M3/8"	494000
Ø 15mm for compression fittings	49400015

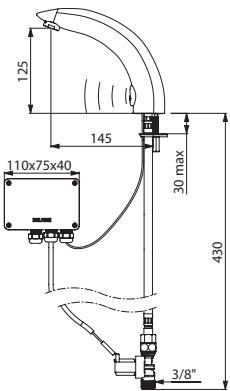
For long lever, please add LH after the reference

TEMPOMATIC 2 basin tap

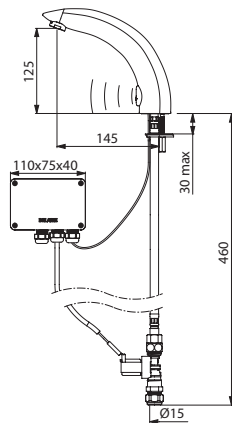
Electronic tap with mains supply



- **Independent IP65 electronic control unit.**
- **230/12V mains supply with transformer.**
- **Flow rate pre-set at 3 lpm** at 3 bar, can be adjusted 1.5 - 6 lpm.
- **Scale-resistant flow straightener.**
- **Adjustable duty flush** (pre-set flush ~60 sec. every 24hr after last use).
- Shockproof infrared presence detection sensor.
- Chrome-plated solid brass body.
- PEX flexibles with filters and solenoid valves.
- Fixing reinforced by 2 stainless steel rods.
- Anti-blocking security.



444000



44400015

TEMPOMATIC 2 mains supply tap

M3/8"	444000
Ø 15mm for compression fittings	44400015

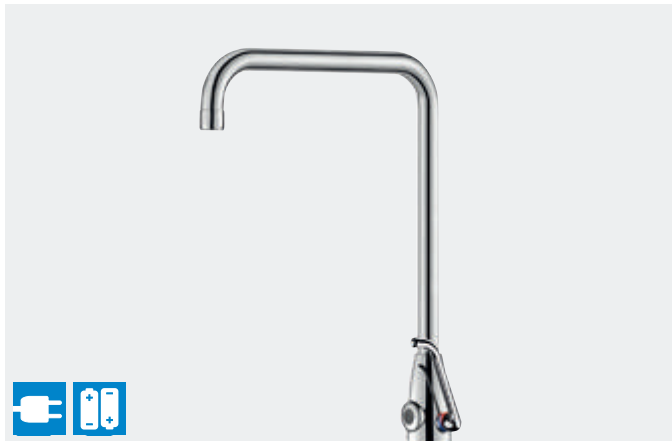
We recommend installing a TMV (see page 90)



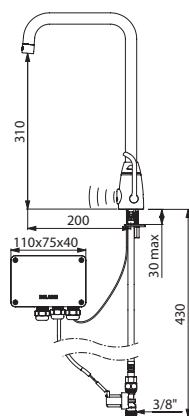
- **BIOSAFE** infection control: no manual contact, anti-bacterial duty flush, removable spout with smooth interior for easy cleaning and disinfection, reduced-stagnation solenoid valves on battery-operated models
- **Water savings:** 90%
- **Comfort:** mains supply models have several shut-off options available

TEMPOMATIC MIX PRO mixer for basins and sinks

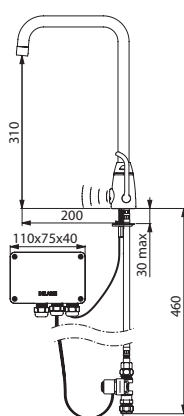
Electronic mixer, mains supply or battery-operated



- Independent IP65 electronic control unit.
 - 230/12V mains supply with transformer or battery-operated with 123 6V Lithium battery.
 - Flow rate pre-set at 3 lpm at 3 bar, can be adjusted 1.5 - 6 lpm.
 - Scale-resistant flow straightener.
 - Adjustable duty flush (pre-set flush ~60 sec. every 24hr after last use).
 - Shockproof infrared presence detection sensor.
 - Chrome-plated solid brass body with fixing reinforced by 2 stainless steel rods.
 - PEX flexibles with filters and solenoid valves.
 - Swivelling spout with smooth interior (reduces bacterial development).
 - Removable spout for cleaning.
 - Anti-blocking security.
 - Side temperature control with ergonomic LH lever and adjustable maximum temperature limiter.
- Two shut-off options on 230/12V models:**
- > **Standard mode:** timed flow with automatic shut-off.
 - > **On/Off mode:** user shuts off flow on demand or automatic shut-off after 30 min. of flow.
- Thermal shocks are possible.



495253

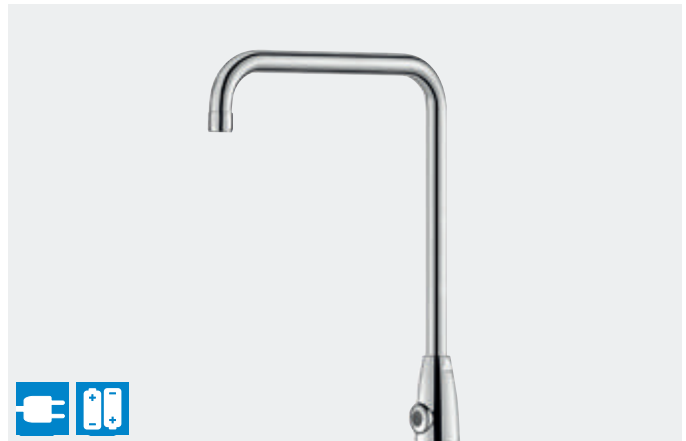


49525715

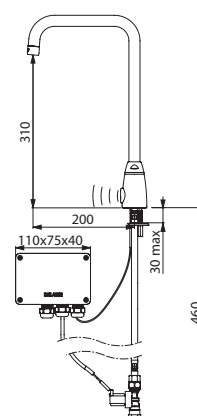
TEMPOMATIC MIX PRO mixer	
230/12V mains supply, M%	495253
230/12V mains supply, Ø 15mm for compression fittings	49525315
6V Lithium battery-operated, M%	495257
6V Lithium battery-operated, Ø 15mm for compression fittings	49525715

TEMPOMATIC PRO tap for basins and sinks

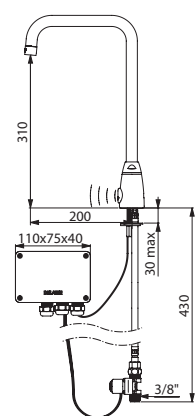
Electronic tap, mains supply or battery-operated



- Independent IP65 electronic control unit.
 - 230/12V mains supply with transformer or battery-operated with 123 6V Lithium battery.
 - Flow rate pre-set at 3 lpm at 3 bar, can be adjusted 1.5 - 6 lpm.
 - Scale-resistant flow straightener.
 - Adjustable duty flush (pre-set flush ~60 sec. every 24hr after last use).
 - Shockproof infrared presence detection sensor.
 - Chrome-plated solid brass body with fixing reinforced by 2 stainless steel rods.
 - PEX flexible with filter and solenoid valve.
 - Swivelling spout with smooth interior (reduces bacterial development).
 - Removable spout for cleaning.
 - Anti-blocking security.
- Two shut-off options on 230/12V models:**
- > **Standard mode:** timed flow with automatic shut-off.
 - > **On/Off mode:** user shuts off flow on demand or automatic shut-off after 30 min. of flow.
- Thermal shocks are possible.



44525315



445257

TEMPOMATIC PRO tap	
230/12V mains supply, M%	445253
230/12V mains supply, Ø 15mm for compression fittings	44525315
6V Lithium battery-operated, M%	445257
6V Lithium battery-operated, Ø 15mm for compression fittings	44525715

We recommend installing a TMV (see page 90)



- **BIOSAFE** infection control: no manual contact and anti-bacterial duty flush
- **Water savings:** 90%
- **Vandal-resistant:** recessed or cross wall installation
- **Maintenance:** LED diagnostic aids

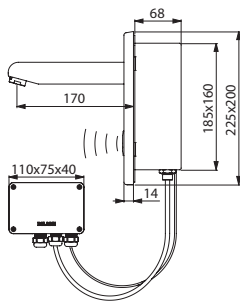
TEMPOMATIC tap for basins, sinks or troughs

Recessed electronic tap with mains supply



- Independent IP65 electronic control unit.
- 230/12V mains supply with transformer.
- Flow rate pre-set at 3 lpm at 3 bar, can be adjusted 1.5 - 6 lpm.
- Scale-resistant flow straightener.
- Adjustable duty flush (pre-set flush ~60 sec. every 24hr after last use).
- Recessing box with tamperproof stainless steel wall plate.
- Shockproof infrared presence detection sensor.
- Anti-blocking security.
- Chrome-plated fixed spout L. 170mm.
- Stopcock M $\frac{1}{2}$ ".

This model does not have a waterproof recessing box. The installer must ensure that the recessing area is waterproof and any leaks or condensation can drain away (see installation guide).



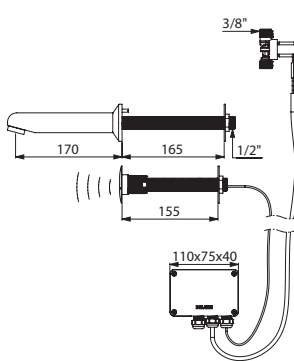
447500

TEMPOMATIC tap for basins, sinks or troughs

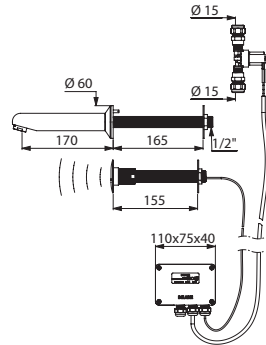
Cross wall electronic tap with mains supply



- Independent IP65 electronic control unit.
- 230/12V mains supply with transformer.
- Flow rate pre-set at 3 lpm at 3 bar, can be adjusted 1.5 - 6 lpm.
- Scale-resistant flow straightener.
- Adjustable duty flush (pre-set flush ~60 sec. every 24hr after last use).
- Shockproof infrared presence detection sensor for walls ≤ 155 mm.
- Anti-blocking security.
- Solenoid valve $\varnothing 15$ mm for compression fittings with integrated filter.
- Chrome-plated fixed spout L. 170mm for walls ≤ 165 mm with anti-rotating pin.
- Wall plate flush to the wall.
- Threaded rods can be cut to size.



441157



44115715

TEMPOMATIC recessed basin tap	447500
We recommend installing a TMV (see page 90) Alternative spout and cross wall lengths available on request	

TEMPOMATIC cross wall tap	
M $\frac{3}{8}$ "	441157
$\varnothing 15$ mm for compression fittings	44115715
We recommend installing a TMV (see page 90) Alternative spout and cross wall lengths available on request	



- **BIOSAFE** infection control: no manual contact, anti-bacterial duty flush, body and spout with smooth interiors, spout suitable for fitting a BIOFIL terminal filter
- **Water savings:** 90%
- **Comfort:** optimal spout height for hand washing, several shut-off options available

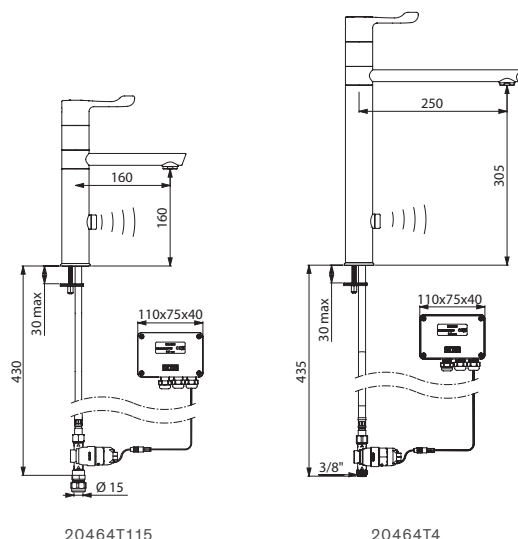
Electronic sink/trough mixer, battery-operated

With high, swivelling spout



- **Independent IP65 electronic control unit.**
- **Battery-operated with 123 6V Lithium battery.**
- **Flow rate pre-set at 3 lpm** at 3 bar, can be adjusted from 1.5 to 6 lpm.
- **Scale-resistant flow straightener** suitable for fitting a terminal filter (see page 28).
- Chrome-plated solid brass body and spout with reinforced fixing.
- **Body and spout with smooth interiors** (reduces bacterial development).
- **Adjustable duty flush** (pre-set flush ~60 sec. every 24hr after last use).
- Shockproof infrared presence detection sensor.
- Hygiene lever L. 100mm controls temperature.
- PEX flexibles with filters and solenoid valves.
- Anti-blocking security.

Pro tip: position the sensor next to the spout in On / Off mode.



20464T115

20464T4

Electronic battery-operated sink / trough mixer

Spout H. 165mm L. 160mm, M $\frac{3}{8}$ "	20464T1
Spout H. 165mm L. 160mm, Ø 15mm for compression fittings	20464T115
Spout H. 305mm L. 250mm, M $\frac{3}{8}$ "	20464T4
Spout H. 305mm L. 250mm, Ø 15mm for compression fittings	20464T415

Options: Wastes (see page 91), BIOFIL filters (see page 28)

Electronic sink/trough mixer with mains supply

With high, swivelling spout



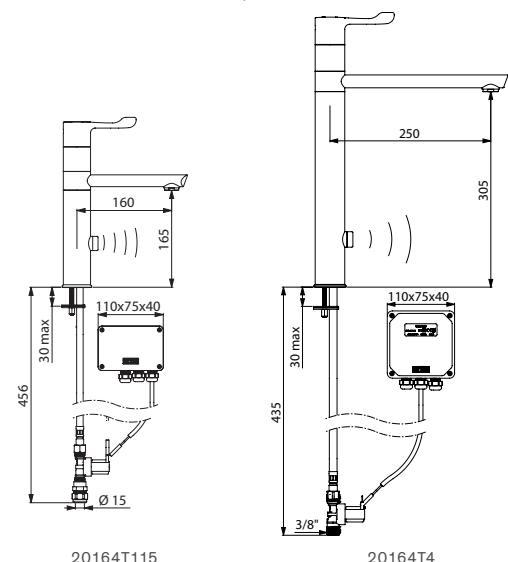
- **Independent IP65 electronic control unit.**
- **230/12V mains supply with transformer.**
- **Flow rate pre-set at 3 lpm** at 3 bar, can be adjusted from 1.5 to 6 lpm.
- **Scale-resistant flow straightener** suitable for fitting a terminal filter (see page 28).
- Chrome-plated solid brass body and spout with reinforced fixing.
- **Body and spout with smooth interiors** (reduces bacterial development).
- **Adjustable duty flush** (pre-set flush ~60 sec. every 24hr after last use).
- Shockproof infrared presence detection sensor.
- Hygiene lever L. 100mm controls temperature.
- PEX flexibles with filters and solenoid valves.
- Anti-blocking security.

Two shut-off options:

> **Standard mode:** timed flow with automatic shut-off.

> **Mode On / Off:** user shuts off flow voluntarily or automatic shut-off after 30 min. of flow. Thermal shocks are possible.

Pro tip: position the sensor next to the spout in On / Off mode.



20164T115

20164T4

Electronic sink / trough mixer with mains supply

Spout H. 165mm L. 160mm, M $\frac{3}{8}$ "	20164T1
Spout H. 165mm L. 160mm, Ø 15mm for compression fittings	20164T115
Spout H. 305mm L. 250mm, M $\frac{3}{8}$ "	20164T4
Spout H. 305mm L. 250mm, Ø 15mm for compression fittings	20164T415

Options: Wastes (see page 91), BIOFIL filters (see page 28)



- **BIOSAFE** infection control: no manual contact, anti-bacterial duty flush, body/base and spout with smooth interiors
- **Removable spout:** mixer and tap spouts are susceptible to bacterial development so must be cleaned regularly. The stainless steel spout can be changed regularly or replaced by a BIOFIL filter or disposable spout

Electronic sink/trough mixer with mains supply

With removable, swivelling spout

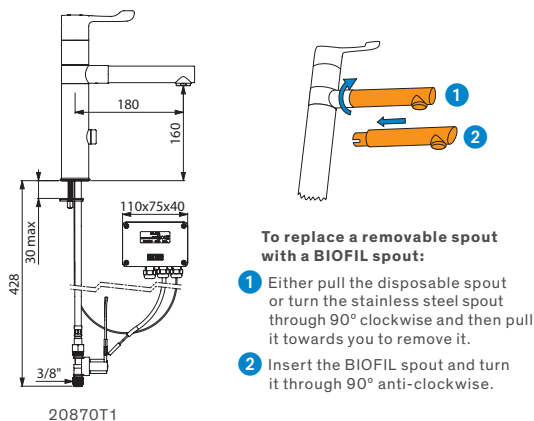


- **Independent IP65 electronic control unit.**
- **230/12V mains supply with transformer.**
- **Flow rate limited to 7 lpm** at 3 bar.
- Supplied with either 2 removable BIOCLIP stainless steel spouts or 1 disposable Hostaform® spout. Can be replaced with a BIOFIL filter (see page 47).
- Chrome-plated solid brass body with reinforced fixing.
- **Body and spout with smooth interiors** (reduces bacterial development).
- **Adjustable duty flush** (pre-set flush ~60 sec. every 24hr after last use).
- Shockproof infrared presence detection sensor.
- Hygiene lever L. 100mm controls temperature.
- PEX flexibles with filters and solenoid valves.
- Anti-blocking security.

Two shut-off options:

- > **Standard mode:** timed flow with automatic shut-off.
- > **Mode On / Off:** user shuts off flow voluntarily or automatic shut-off after 30 min. of flow. Thermal shocks are possible.

Pro tip: position the sensor next to the spout in On / Off mode.



To replace a removable spout with a BIOFIL spout:

- 1 Either pull the disposable spout or turn the stainless steel spout through 90° clockwise and then pull it towards you to remove it.
- 2 Insert the BIOFIL spout and turn it through 90° anti-clockwise.

Electronic sink / trough mixer with mains supply

Spout H. 160mm

Stainless steel spout, M $\frac{3}{8}$ "	20870T1
Stainless steel spout, Ø 15mm for compression fittings	20870T115
Disposable spout, M $\frac{3}{8}$ "	20871T1

Spout H. 300mm

Stainless steel spout, M $\frac{3}{8}$ "	20870T3
Stainless steel spout, Ø 15mm for compression fittings	20870T315
Disposable spout, M $\frac{3}{8}$ "	20871T3

Options: Wastes (see page 91), BIOFIL filters (see page 27)

Electronic wall-mounted tap with mains supply

With removable spout

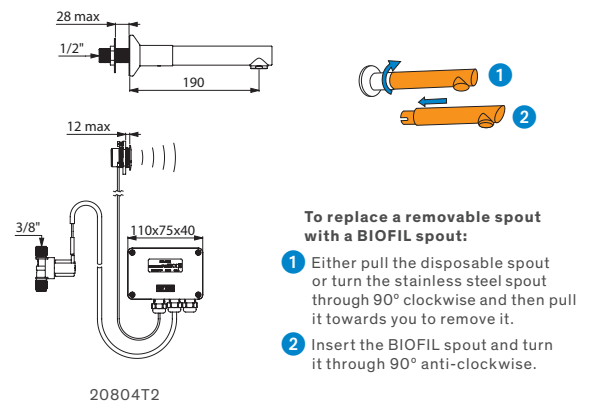


- **Independent IP65 electronic control unit.**
- **230/12V mains supply with transformer.**
- **Flow rate limited to 5 lpm** at 3 bar.
- Supplied with either 2 removable BIOCLIP stainless steel spouts or 1 disposable Hostaform® spout. Can be replaced with a BIOFIL filter (see page 47).
- **Base and spout with smooth interiors** (reduces bacterial development).
- **Adjustable duty flush** (pre-set flush ~60 sec. every 24hr after last use).
- Separate sensor for mounting on panels.
- 12V solenoid valve with integrated filter.
- Shockproof infrared presence detection sensor.
- Ø 60mm chrome-plated brass base.
- Anti-blocking security.

Two shut-off options:

- > **Standard mode:** timed flow with automatic shut-off.
- > **Mode On / Off:** user shuts off flow voluntarily or automatic shut-off after 30 min. of flow. Thermal shocks are possible.

Pro tip: position the sensor next to the spout in On / Off mode.



To replace a removable spout with a BIOFIL spout:

- 1 Either pull the disposable spout or turn the stainless steel spout through 90° clockwise and then pull it towards you to remove it.
- 2 Insert the BIOFIL spout and turn it through 90° anti-clockwise.

Electronic wall-mounted tap with mains supply

Stainless steel spout, M $\frac{3}{8}$ "	20804T2
Stainless steel spout, Ø 15mm for compression fittings	20804T215
Disposable spout, M $\frac{3}{8}$ "	20801T2

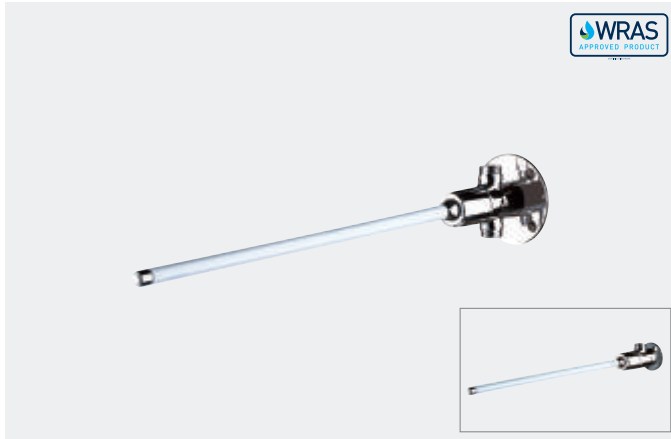
Options: Wastes (see page 91), BIOFIL filters (see page 27)



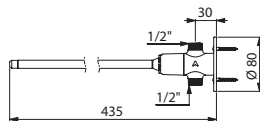
- **BIOSAFE** infection control: no manual contact
- **Water savings:** automatic instant or timed shut-off

TEMPOGENOU

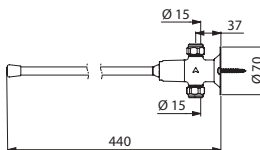
Knee-operated time flow basin valve



- **Time flow ~7 sec.**
- **Flow rate pre-set at 3 lpm** at 3 bar, can be adjusted 1.5 - 6 lpm.
- **Straight for in-line inlet M $\frac{1}{2}$ " or angled for recessed inlet M $\frac{1}{2}$ ".**
- Control lever reinforced by an internal stainless steel rod.
- Solid brass wall plate with reinforced fixing via 4 stainless steel screws for ref. 735400.
- Cold or mixed water supply.



735400



73544715

TEMPOGENOU valve

Straight model M $\frac{1}{2}$ " for in-line inlet	735400
Straight model Ø 15mm for CF for in-line inlet	73544715
Angled model M $\frac{1}{2}$ " for recessed inlet	734100

We recommend installing a TMV (see page 90)

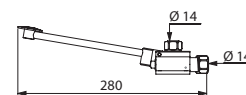
Option: Spouts (see pages 47 - 49)

MIXFOOT/MONOFOOT

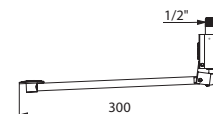
Foot-operated basin mixer/valve with instant shut-off



- MIXFOOT mixer or MONOFOOT valve versions:
 - MIXFOOT: pre-set mixing (can be adjusted) - half open for cold water and fully open for mixed water (pedal touching the floor).
 - MONOFOOT: cold or mixed water supply.
- **Instant automatic shut-off.**
- **Pedal can be raised for cleaning the floor.**
- Adjustable pedal height.
- Fixed by 4 screws.
- Filters.
- **Available for floor or wall-mounting.**



739000



736102

MIXFOOT mixer

Floor-mounted, stud nut Ø 14mm	739000
Floor-mounted M $\frac{1}{2}$ "	739100
Wall-mounted M $\frac{1}{2}$ "	739102

MONOFOOT valve

Floor-mounted, stud nut Ø 14mm	736001
Floor-mounted M $\frac{1}{2}$ "	736101
Wall-mounted M $\frac{1}{2}$ "	736102

We recommend installing a TMV (see page 90)

Option: Spouts (see pages 47 - 49)



- **BIOSAFE** infection control: base and spout with smooth interiors
- **Removable spout:** mixer and tap spouts are susceptible to bacterial development so must be cleaned regularly. The stainless steel spout can be changed regularly or replaced by a BIOFIL filter or disposable spout

Wall-mounted base with BIOCLIP spout

For panels < 20mm



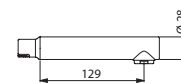
- Ø 60mm base in chrome-plated brass, order a non-contact foot or knee-operated control to complete.
- Supplied with either 2 removable BIOCLIP stainless steel spouts or 1 disposable Hostaform® spout. Can be replaced with a BIOFIL filter (see *opposite*).
- **Base and spout with smooth interiors** (reduces bacterial development).

Related products

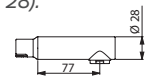


BIOCLIP stainless steel spouts

- **Removable spout** for cleaning/disinfection or autoclaving.
- Hygienic flow straightener, suitable for fitting a terminal filter (see *BIOFIL cartridges page 28*).



20002



20003

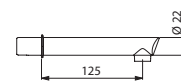
2 removable stainless steel spouts Ø 28mm

L. 129mm	20002
L. 77mm	20003



BIOCLIP disposable spouts

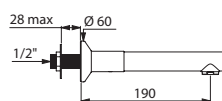
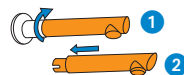
- **Removable, disposable spout** made from recyclable Hostaform® with star-shaped flow straightener.



20015

15 removable, disposable spouts Ø 22mm

L. 125mm	20015
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1804T2

To replace a removable spout with a BIOFIL spout:

- 1 Either pull the disposable spout or turn the stainless steel spout through 90° clockwise and then pull it towards you to remove it.
- 2 Insert the BIOFIL spout and turn it through 90° anti-clockwise.



BIOCLIP BIOFIL spouts

- **Removable spout with integrated anti-bacterial filter.**
- Single use, sterilising grade 0.1µm absolute-rated.
- Compatible with and resistant to chemical and thermal shocks in the water system (for more information see page 27).



20040.10P

10 filter spouts L.138mm, Ø 22mm

Sterile, 62 days	20040.10P
Non-sterile, 62 days	30040.10P

Wall-mounted base with BIOCLIP spout

Stainless steel spout	1804T2
Disposable spout	1801T2

Options: BIOFIL filter spouts (see *opposite*)

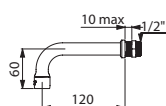
Non-contact controls (see *opposite*) or electronic mixers / taps (see *pages 36 - 41*)

L-shaped spout

Wall-mounted



- Tubular spout Ø 18mm, M½".
- L. 120mm.
- Chrome-plated brass.
- Flow straightener.



941922

Wall-mounted L-shaped universal spout

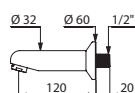
Star-shaped flow straightener	941120
Flow straightener set at 3lpm for panels ≤ 10mm	941922

Spout with wall plate

Wall-mounted



- Spout Ø 32mm and wall plate Ø 60mm, M½".
- L. 120mm.
- Chrome-plated solid brass.
- Scale-resistant flow straightener regulated at 3 lpm.



947135

Wall-mounted spout with wall plate	947135
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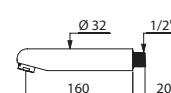
[Alternative spout lengths available on request](#)

Spout

Wall-mounted



- Spout Ø 32mm, M½".
- Chrome-plated solid brass.
- Scale-resistant flow straightener set at 3 lpm.



947170

Wall-mounted spout

L. 70mm	947085
L. 110mm	947120
L. 160mm	947170

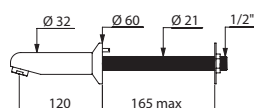
[Alternative spout lengths available on request](#)

Spout with wall plate

Cross wall



- Spout Ø 32mm and wall plate Ø 60mm, M½".
- For cross wall installation for walls ≤ 165mm with anti-rotating pin.
- Threaded rod can be cut to size.
- Chrome-plated solid brass.
- Scale-resistant flow straightener set at 3 lpm.



947151

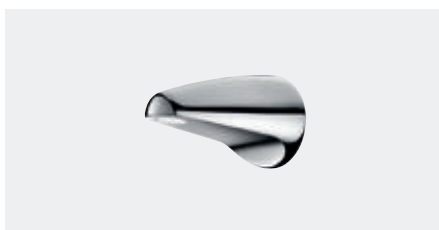
Cross wall spout with wall plate

L. 120mm	947151
Back-nut with 3 screws	826315

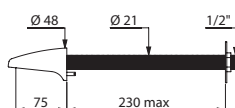
[Alternative spout lengths available on request](#)

Spout

Cross wall



- Spout L. 75mm, M½".
- For cross wall installation with anti-rotating pin.
- Threaded rod can be cut to size.
- Streamlined, ligature-resistant design.
- Chrome-plated solid brass.
- Star-shaped scale-resistant flow straightener.



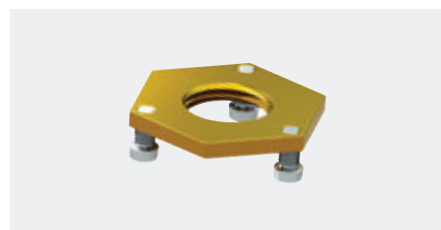
942200

Cross wall spout

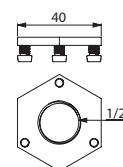
For walls ≤ 230mm	942200
For panels ≤ 30mm	942040
Back-nut with 3 screws	826315

[Alternative spout lengths available on request](#)

Back-nut with 3 screws



- Cast brass back-nut F½".
- For cross wall control ½".
- Reinforced clamp behind wall.
- 3 stainless steel screws.
- Supplied with sealing washer Ø 44mm.



826315

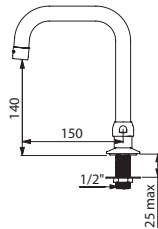
Back-nut with 3 screws	826315
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Swivelling, tubular spout

Deck-mounted



- Tubular spout Ø 22mm on base, M½".
- Spout with smooth interior (reduces bacterial development).
- Chrome-plated brass.
- Scale-resistant flow straightener.



1306T1

Deck-mounted swivelling, tubular spout

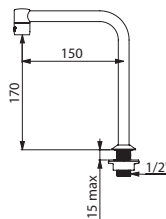
L. 150mm H. 140mm, 3 lpm	1306T1
L. 200mm H. 260mm, 3 lpm	1306T2
L. 300mm H. 260mm	1306T3

Fixed tubular spout

Deck-mounted



- Tubular spout Ø 16mm, M½".
- L. 150mm, H. 170mm.
- Spout with smooth interior (reduces bacterial development).
- Chrome-plated solid brass.
- Scale-resistant flow straightener regulated at 3 lpm.



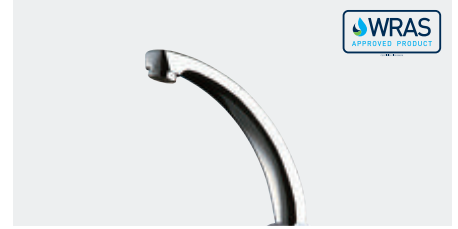
204001

Deck-mounted fixed tubular spout

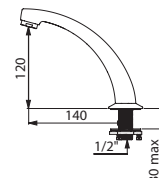
204001

Fixed, cast spout

Deck-mounted



- Spout L. 140mm, H. 120mm, M½".
- Reinforced fixing by 3 stainless steel screws.
- Chrome-plated solid brass.
- Scale-resistant flow straightener regulated at 3 lpm.



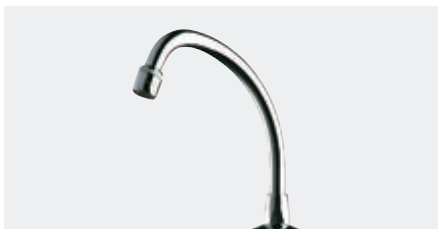
981142

Deck-mounted fixed cast spout

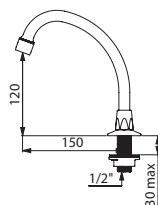
981142

Swivelling swan neck spout

Deck-mounted



- Swan neck M½".
- Fixing by back-nut.
- Chrome-plated brass.
- Scale-resistant flow straightener regulated 3 lpm.



967152

Deck-mounted swivelling swan neck spout

L. 150mm H. 120mm	967152
L. 200mm H. 200mm	967202

ECO flow straightener

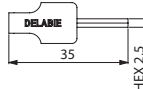
Pre-set at 3 lpm



- Scale-resistant flow straightener pre-set at 3 lpm (DELABIE patented).
- **Flow rate can be adjusted 1.5 to 6 lpm** at 3 bar (depending on tap/mixer model) from the outside using a 2.5mm Allen key.
- Flow straightener with no grid: reduces bacterial development (no water retention or scale deposits).
- Supplied in packs of 2.



922024.2P

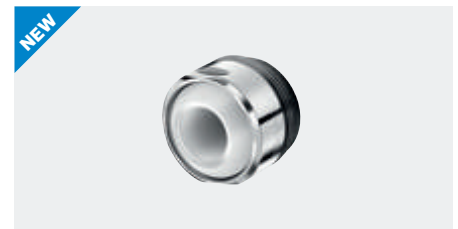


C282025

ECO flow straightener pre-set at 3 lpm

M24/100	922024.2P
F22/100	922022.2P
2.5mm Allen Key	C282025

BIOSAFE hygienic outlet



- **Free flow outlet with no grid** or partitions in contact with the water.
- **Water cannot stagnate in the internal part.**
- Made from Hostaform® (scale-resistant material).
- Chrome-plated brass collar.
- Supplied individually.

The BIOSAFE outlet can only be installed on a mixer/tap with a restricted flow rate to ensure a good flow with no splashing.



923024



923022

BIOSAFE hygienic outlet

M24/100, 5 lpm	923024
F22/100, 5 lpm	923022
M24/100, 9 lpm	924024
F22/100, 9 lpm	924022



SECURITHERM

thermostatic and pressure-balancing mixers for basins, sinks and troughs

SINGLE CONTROL THERMOSTATIC MIXERS 56



DUAL CONTROL THERMOSTATIC MIXERS 60



PRESSURE BALANCING MIXERS 67





SINGLE CONTROL OPEN AND CLOSING

BIOSAFE: limiting bacterial growth

The new generation of DELABIE thermostatic mixers is single lever control: there is only one mechanism instead of two for the dual control models.

As a result, fewer components are in contact with the water and there is less standing water in the mixer.

Single control thermostatic mixers do not need non-return valves on the inlets. All this greatly reduces the risk of bacterial development.

Improved ergonomics and functionality

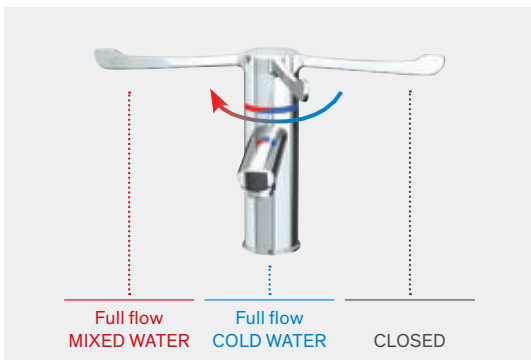
The same lateral movement opens the water flow and adjusts the temperature.

Opens and closes with cold water

SECURITHERM single control mixers open and close with cold water for increased anti-scalding safety.

Cold water

Opening with cold water, without any passage of hot water, ensures the supply of only cold water if required (exclusive to DELABIE).



Single control open and closing

COMFORT AND ERGONOMICS

Temperature stability

SECURITHERM thermostatic mixers ensure stable temperatures regardless of pressure and flow rate variations in the system. They respond immediately to any changes.

Optimised hand washing and personal washing thanks to a large drop height and increased spout length.

Ergonomic controls

are easy to operate, and are suitable for hospital patients, the elderly or disabled people.

Intuitive identification

Clear visual identification of Hot and Cold Water on a Red/Blue coloured index ring.

SECURITHERM: OPTIMISED ANTI-SCALDING FAILSAFE

To reduce the risk of bacterial development, hot water must be circulated at high temperatures in the system while reducing the risk of scalding at the point-of-use.

Automatic anti-scalding failsafe

SECURITHERM thermostatic technology ensures immediate hot water shut-off if the cold water supply fails. If the hot water supply fails, DELABIE SECURITHERM mixers also shut off the cold water supply.

Maximum temperature limiter

All DELABIE mixers are supplied with a pre-set maximum temperature limiter. The user cannot increase the temperature above the maximum set temperature, reducing the risk of scalding.

Thermal shock safety

With SECURITHERM thermostatic mixers, it is possible to undertake thermal shocks at the temperature of the hot water in the system:

- On TMV3 approved dual control models unscrew the temperature adjustment cap using an Allen key and turn the valve spindle clockwise all the way to the right to override the temperature setting.
- On standard dual control models simply press the little red button with a pointed tool to override the maximum temperature limiter.
- Remove the control lever and the temperature limiting index ring on TMV3 approved single lever control model.

Securitouch technology

Specifically designed for patients, people with reduced mobility, the elderly and children, Securitouch technology provides increased safety for superior comfort.

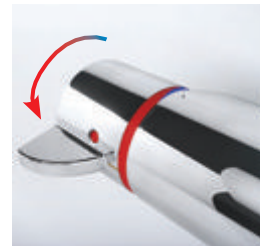
The whole mechanism on certain SECURITHERM models is insulated, preventing any risk of burns when touching the mixer.

45% WATER AND ENERGY SAVINGS

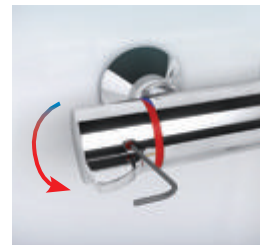
Flow rate regulated at 5 lpm

Most of DELABIE's thermostatic basin mixers are fitted with a flow rate regulator set at 5 lpm (dual control models) or 7 lpm (single control models). They provide significant water savings while ensuring optimal user comfort.

The water savings generated allow energy savings and less equipment is required: lower capacity pipework and water heating equipment can be installed. Lower water volumes in the installation mean a lower risk of bacterial proliferation.



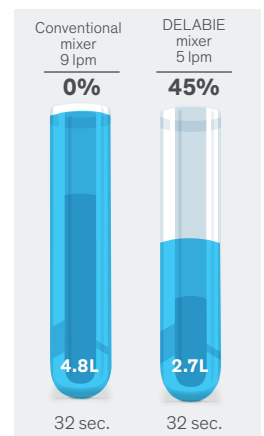
Temperature limiter



Thermal shock safety



Securitouch technology: cool touch



Water savings per use



BIOSAFE: INFECTION CONTROL

BIOCLIP removable mixers for cleaning/disinfection

Since they are in contact with water, the internal surfaces of mixers and taps are exposed to bacterial proliferation. BIOCLIP mixers can be completely removed from their base, providing simple and effective solutions to fight against the spread of germs inside and on the outside of mixers and taps, and against the spread of infectious bacteria by hand. They allow easy cleaning and disinfection, both preventative and curative.

Available versions

- BIOCLIP mixers with removable spouts are supplied with stainless steel or disposable spouts, ensuring continuous use during cleaning/disinfection. They can be replaced by:
 - Stainless steel spouts
 - Disposable Hostaform® spouts
 - BIOFIL filter spouts
- BIOCLIP mixers can be completely removed from their base.

Preventative action

In hospitals and care homes, strict protocols must be followed to limit bacterial proliferation effectively. A cleaning regime for mixers and taps must take place regularly, depending on the age and the risk level of the installation.

Regularly cleaning mixers and taps in a de-scaling solution helps to remove deposits and encrustations, and to remove biofilm.

Curative action

If a water sample taken from a mixer or tap tests positive for *Pseudomonas aeruginosa* or *Legionella* spp., the mixer/tap can be easily removed by maintenance staff for cleaning and disinfection.

Body with smooth interior

Most mixers and taps have bodies and spouts with rough interiors. As a result, they provide niches where bacteria can adhere.

All the internal parts of the body and spout of certain DELABIE models are completely smooth, reducing biofilm attachment and making it easier to treat.

A study in June 2010 by the BioPI laboratory and the Department for Biological Studies at Jules Verne University in Amiens, France showed that under constant conditions, **mixers and taps with smooth interiors have *Pseudomonas aeruginosa* contamination levels 14 times lower than those mixers and taps with rough bodies.**

Low volume of standing water in the body

Some DELABIE basin mixers have specifically designed interiors that reduce the volume of standing water in the body and thus significantly reduce the risk of bacterial development. In effect, **water flows from the inlets to the cartridge via narrow tubes which can only hold a limited volume of water.**

Specifically designed spout heights

- A high spout reduces the risk of retro-contamination by bacteria.
- Deck and wall-mounted mixers with high spouts are suitable for fitting anti-bacterial terminal filters.

BIOSAFE hygienic outlet

Made from Hostaform®, its smooth internal surface provides nowhere for impurities or scale to adhere (no grid, partitions or star-shaped structure), reducing the emergence and spread of bacteria and germs in damp conditions.

It can only be installed on a mixer or tap that already has a restricted flow rate to ensure a good flow with no splashing.

PEX flexible supply hoses

These flexibles will withstand thermal and chemical shocks undertaken in healthcare facilities, in the event of preventative or curative treatment against bacterial development.

Soft-tempered copper tails are available on request, and are also able to withstand thermal shocks.

AND ALSO...

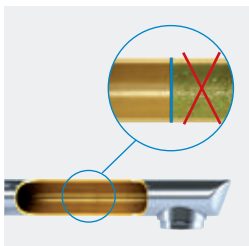
Robust

- Body, base and spout made from chrome-plated brass.
- Reinforced fixing by 2 stainless steel rods with back-nuts for deck-mounted models: easy to install and reduces vandalism.

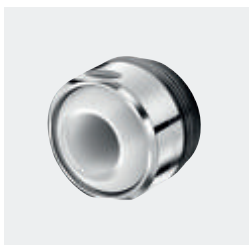
10-year warranty against any manufacturing defects.



Removable mixer

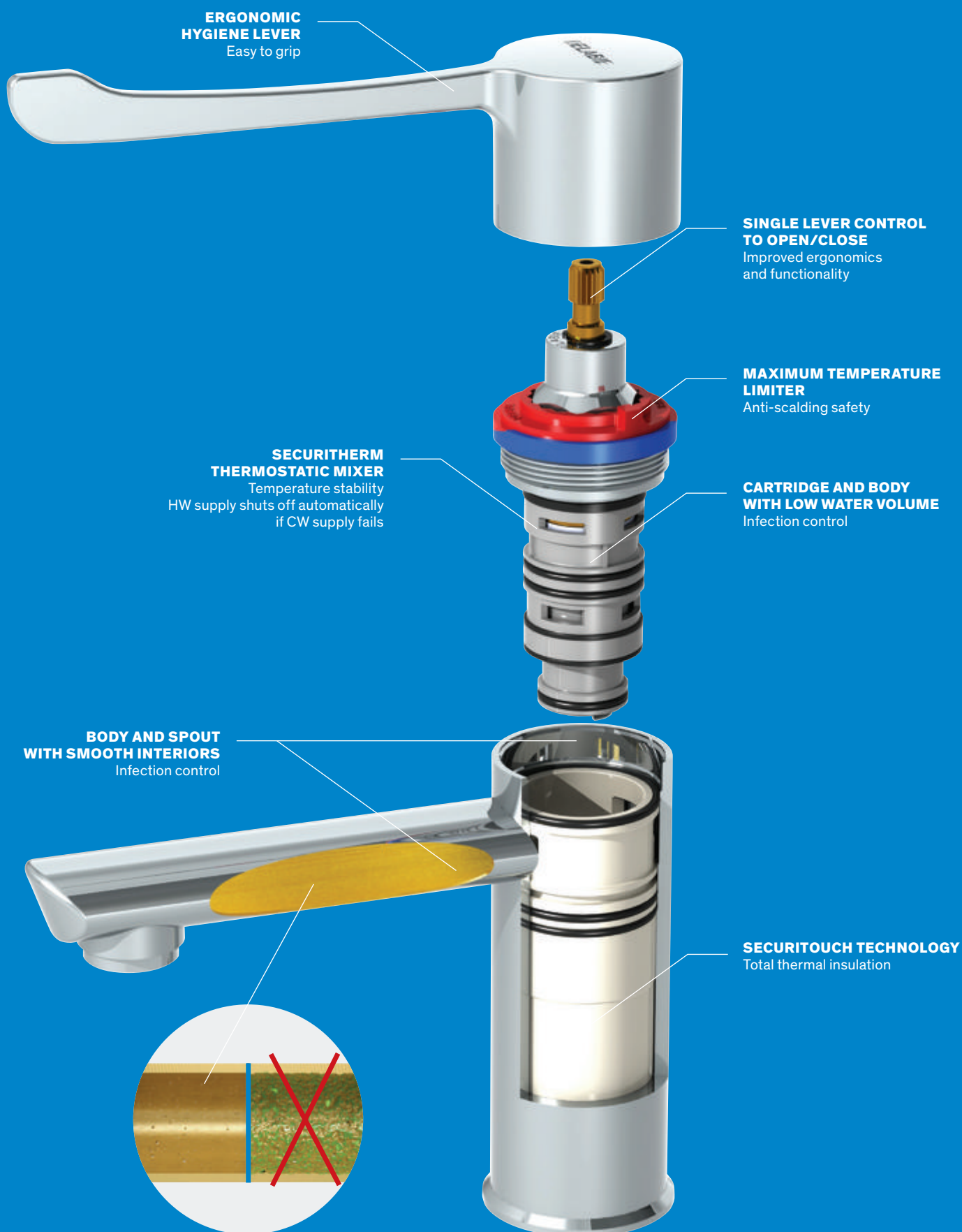


Body with smooth interior



BIOSAFE hygienic outlet



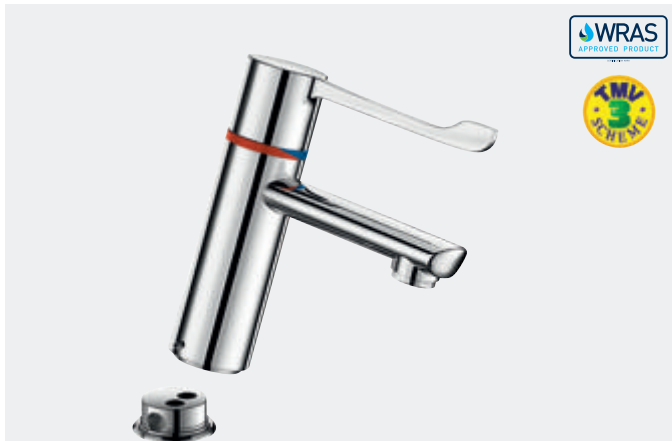




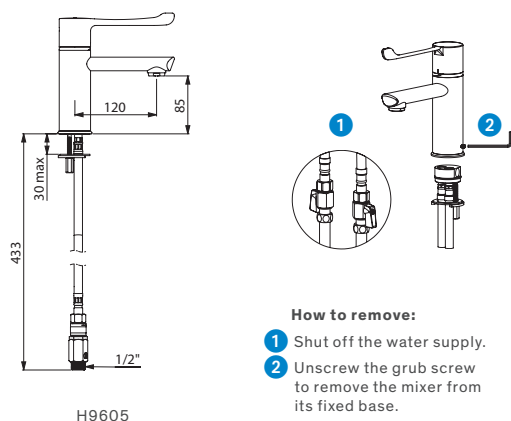
- **SECURITHERM** anti-scalding failsafe: immediate shut-off if cold water supply fails, **Securitouch** thermal insulation
- **BIOSAFE**: fewer components in contact with water reduces bacterial development
- **BIOSAFE** infection control: body and spout with smooth interiors and low water volume
- **No non-return valve on the inlets**: reduced risk of bacterial proliferation and no risk of cross flow between HW and CW

SECURITHERM BIOCLIP basin mixer H. 85mm

Removable single control thermostatic mixer



- **Can be removed entirely** for cleaning/disinfection (see page 10).
- **Anti-scalding failsafe**: immediate shut-off if cold water supply fails.
- **Securitouch thermal insulation prevents burns.**
- **No non-return valve** on the inlets.
- Straight spout **H. 85mm L. 120mm** with hygienic flow straightener.
- **Scale-resistant thermostatic sequential cartridge.**
- Temperature control: cold water up to 40°C.
- Temperature limiter set at 40°C.
- Thermal or chemical shocks are possible.
- **Body and spout with smooth interiors and low water volume.**
- **Flow rate regulated at 7 lpm.**
- No manual contact thanks to Hygiene control lever.
- PEX flexibles supplied with stopcocks in chrome-plated brass.
- Reinforced fixing via 2 stainless steel rods.



H9605

SECURITHERM BIOCLIP basin mixer H. 85mm L. 120mm

With lever L. 146mm

With stopcocks M $\frac{1}{2}$ "	H9605
Without stopcocks, F $\frac{3}{8}$ "	H96051
With stopcocks, Ø 15mm for compression fittings	H960515
With copper tails	H9605610

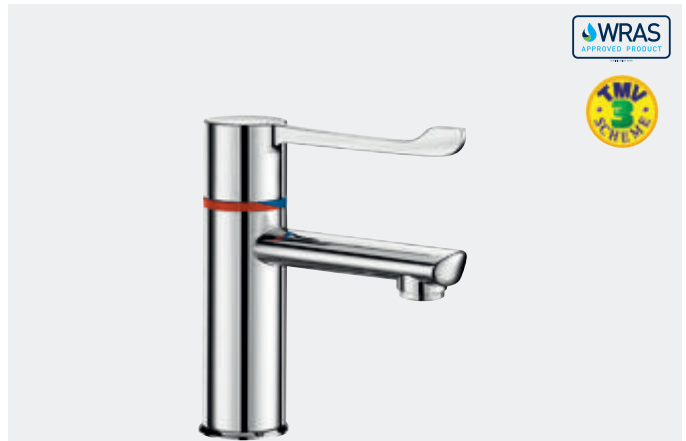
With lever L. 100mm

With Ø 15mm for compression fittings	H960515L
With copper tails	H9605610L

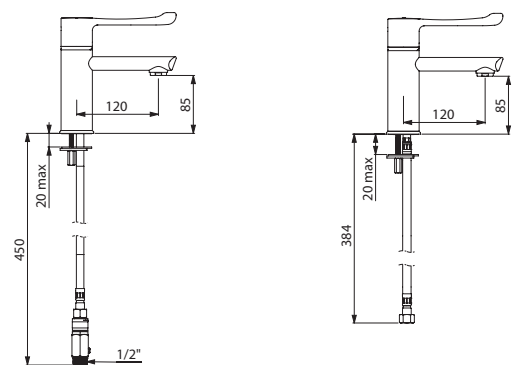
Option: Wastes (see page 91)

SECURITHERM basin mixer H. 85mm

Single control thermostatic mixer



- **Anti-scalding failsafe**: immediate shut-off if cold water supply fails.
- **Securitouch thermal insulation prevents burns.**
- **No non-return valve** on the inlets.
- Straight spout **H. 85mm L. 120mm** with hygienic flow straightener.
- **Scale-resistant thermostatic sequential cartridge.**
- Temperature control: cold water up to 40°C.
- Temperature limiter set at 40°C.
- Thermal or chemical shocks are possible.
- **Body and spout with smooth interiors and low water volume.**
- **Flow rate regulated at 7 lpm.**
- No manual contact thanks to Hygiene control lever.
- PEX flexibles supplied with stopcocks in chrome-plated brass.
- Reinforced fixing via 2 stainless steel rods.



H9600

H96001

SECURITHERM basin mixer H. 85mm L. 120mm

With lever L. 146mm

With stopcocks M $\frac{1}{2}$ "	H9600
Without stopcocks, F $\frac{3}{8}$ "	H96001
With stopcocks, Ø 15mm for compression fittings	H960015
With copper tails	H9600610

With lever L. 100mm

With Ø 15mm for compression fittings	H960015L
With copper tails	H9600610L

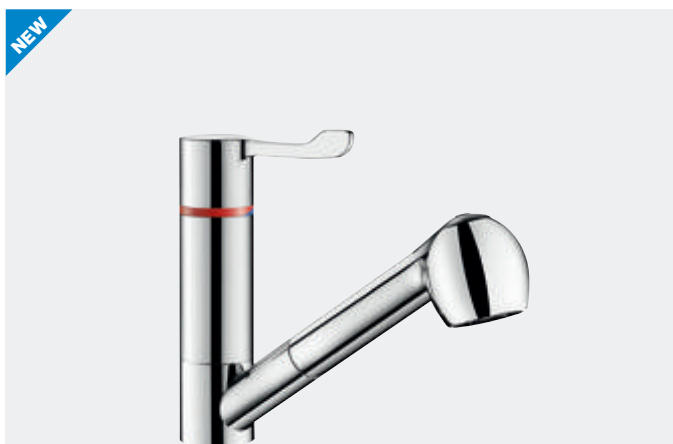
Option: Wastes (see page 91)



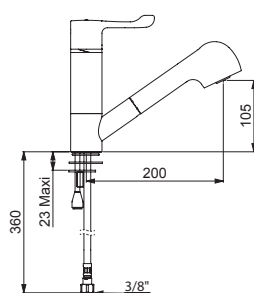
- **SECURITHERM** anti-scalding safety: immediate shut-off if cold water supply fails, **Securitouch** thermal insulation
- **BIOSAFE flexible shower hose reduces bacterial proliferation**: transparent flexible hose allows visual checks to ensure that the interior is not contaminated with biofilm, flexible hose has a smooth interior/exterior and low water volume
- **Comfort**: retracting hand spray with 2 jet options: flow straightener/rain effect; Hygiene control lever for an ergonomic grip

SECURITHERM mixer, retracting hand spray H. 105

Single control mixer with swivelling spout



- **Anti-scalding safety**: shuts off immediately if cold water supply fails.
- **Securitouch thermal insulation prevents burns.**
- Swivelling spout **H. 105mm L. 200mm**.
- Retracting hand spray with 2 jet options: flow straightener/rain effect.
- Scale-resistant **thermostatic sequential cartridge**.
- Temperature control: cold water up to 40°C.
- Maximum temperature limiter set at 40°C.
- **Body with smooth interior.**
- **Flow rate regulated at 12 lpm.**
- No manual contact thanks to Hygiene control lever L. 100mm.
- Mixed water brass outlet L. 105mm.
- **BIOSAFE flexible shower hose reduces bacterial proliferation**: transparent polyurethane, smooth interior and exterior, low water volume (internal Ø 6mm).
- PEX flexibles F¾".
- Reinforced fixing via 2 stainless steel rods.



H9612

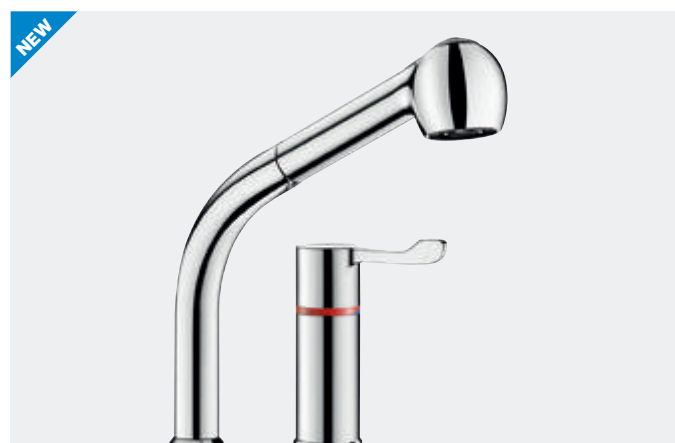
SECURITHERM sink mixer with retracting hand spray
H.105mm L.200mm

H9612

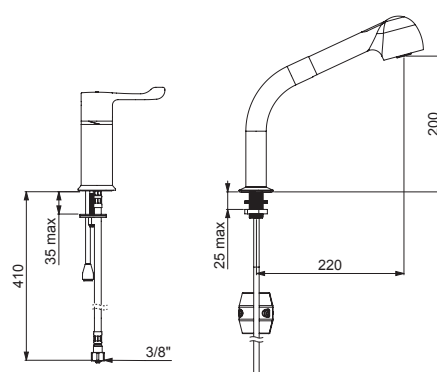
Option: wastes (see page 91)

SECURITHERM mixer, retracting hand spray H. 200

Single control mixer set and column



- **Anti-scalding safety**: shuts off immediately if cold water supply fails.
- **Securitouch thermal insulation prevents burns.**
- Swivelling spout **H. 200mm L. 220mm**.
- Retracting hand spray with 2 jet options: flow straightener/rain effect.
- Scale-resistant **thermostatic sequential cartridge**.
- Temperature control: cold water up to 40°C.
- Maximum temperature limiter set at 40°C.
- **Body and column with smooth interiors.**
- **Flow rate regulated at 12 lpm.**
- No manual contact thanks to Hygiene control lever L. 100mm.
- Mixed water brass outlet L. 105mm.
- **BIOSAFE flexible shower hose reduces bacterial proliferation**: transparent polyurethane, smooth interior and exterior, low water volume (internal Ø 6mm).
- PEX flexibles F¾".
- Reinforced fixing via 2 stainless steel rods.



H9613

SECURITHERM sink mixer with retracting hand spray H. 200mm L. 220mm

Mixer and column	H9613
Mixer only	H9642
Hand spray column	1316

Option: wastes (see page 91)





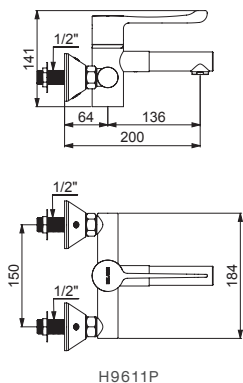
- **SECURITHERM** anti-scalding failsafe: immediate shut-off if cold water supply fails, **Securitouch** thermal insulation
- **BIOSAFE**: fewer components in contact with water, **no non-return valve on the inlets**
- **BIOSAFE** infection control: body and spout with smooth interiors and low water volume
- **Removable spout**: the stainless steel spout can be changed regularly or replaced by a BIOFIL filter spout or disposable spout

SECURITHERM sink mixer

Wall-mounted thermostatic mixer



- Wall-mounted with 150mm or 200mm centre.
- **Anti-scalding failsafe**: immediate shut-off if cold water supply fails.
- **Securitouch thermal insulation prevents burns.**
- Supplied with **2 removable BIOCLIP stainless steel spouts** L. 136mm Ø 28mm for continuous use during cleaning and disinfection. Can be replaced with a BIOFIL filter spout or a disposable Hostaform® spout (see page 63).
- **Scale-resistant thermostatic sequential cartridge.**
- Temperature control: cold water up to 40°C.
- Temperature limiter set at 40°C.
- Thermal or chemical shocks are possible.
- **Body and spout with smooth interiors and low water volume.**
- **Flow rate limited to 7 lpm** at 3 bar.
- No manual contact thanks to Hygiene control lever L. 146mm.
- Supplied with 2 in-line STOP / PURGE wall connectors M½" M¾" (see page 92).



H9611P

Wall-mounted SECURITHERM sink mixer with stainless steel spout

150mm centre	H9611P
200mm centre	H9614P

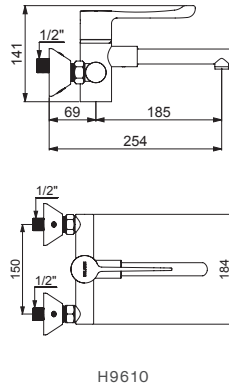
Option: Wastes (see page 91)

SECURITHERM sink mixer

Wall-mounted thermostatic mixer



- Wall-mounted with 150mm centre.
- **Anti-scalding failsafe**: immediate shut-off if cold water supply fails.
- **Securitouch thermal insulation prevents burns.**
- Supplied with **1 disposable Hostaform® spout** L. 185mm Ø 22mm. Can be replaced with a stainless steel spout or a BIOFIL filter spout (see page 63).
- **Scale-resistant thermostatic sequential cartridge.**
- Temperature control: cold water up to 40°C.
- Temperature limiter set at 40°C.
- Thermal or chemical shocks are possible.
- **Body and spout with smooth interiors and low water volume.**
- **Flow rate limited to 7 lpm** at 3 bar.
- No manual contact thanks to Hygiene control lever L. 146mm.
- Supplied with 2 offset wall connectors M½" M¾" (see page 92).



H9610

Wall-mounted SECURITHERM sink mixer with disposable spout

With STOP / PURGE connectors	H9610
With standard connectors	H910S

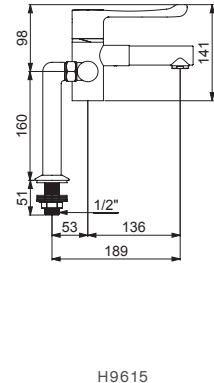
Option: Wastes (see page 91)

SECURITHERM sink mixer

Pillar mounted thermostatic mixer



- M½" pillar mounted.
- **Anti-scalding failsafe**: immediate shut-off if cold water supply fails.
- **Securitouch thermal insulation prevents burns.**
- Supplied with **2 removable BIOCLIP stainless steel spouts** L. 136mm Ø 28mm for continuous use during cleaning and disinfection. Can be replaced with a BIOFIL filter spout or a disposable Hostaform® spout (see page 63).
- **Scale-resistant thermostatic sequential cartridge.**
- Temperature control: cold water up to 40°C.
- Temperature limiter set at 40°C.
- Thermal or chemical shocks are possible.
- **Body and spout with smooth interiors and low water volume.**
- **Flow rate limited to 7 lpm** at 3 bar.
- No manual contact thanks to Hygiene control lever L. 146mm.



H9615

Pillar mounted SECURITHERM mixer with stainless steel spout

Option: Wastes (see page 91)

H9615



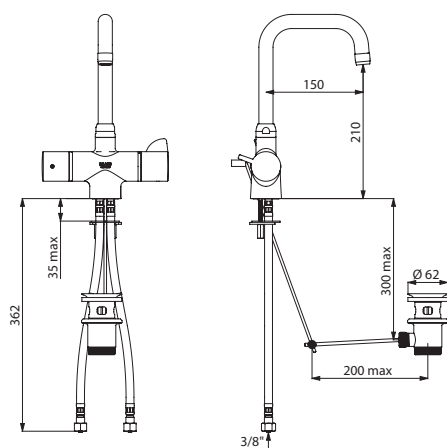
- **SECURITHERM** anti-scalding failsafe: immediate shut-off if cold water supply fails; secure thermal shock
- **BIOSAFE** infection control: spout with smooth interior, easy to remove for cleaning and disinfection
- **Ergonomic**: controls are easy to grip, ideal for hospital patients, children, the elderly or disabled people

SECURITHERM basin mixer L. 150mm

Dual control thermostatic mixer



- **Anti-scalding failsafe**: shuts off immediately if cold water supply fails.
- Swivelling spout **L. 150mm H. 210mm with smooth interior**.
- **BIOSAFE** hygienic **spout outlet**, suitable for fitting a BIOFIL terminal filter (see page 97).
- Scale-resistant **thermostatic cartridge** for adjusting the temperature.
- ¼-turn ceramic head for adjusting the flow rate.
- Temperature can be adjusted, with two temperature limiters: first temperature limiter set at 38°C, and second set at 41°C.
- **Thermal shocks are easy to undertake** without removing the control knob or shutting off the water supply (see page 53).
- **Flow rate regulated at 5 lpm**.
- ERGO control knobs.
- Ergonomic pop-up waste 1¼" in brass.
- PEX flexibles F¾" with filters and non-return valves.
- Reinforced fixing by 2 stainless steel rods.



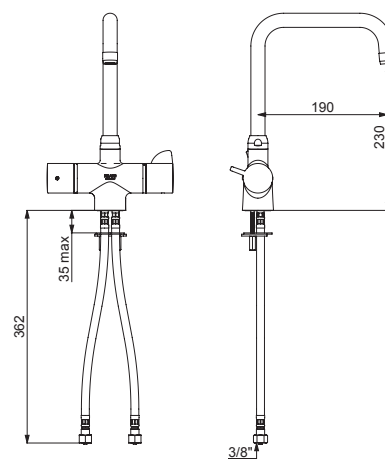
H9726

SECURITHERM sink or trough mixer L. 190mm

Dual control thermostatic mixer



- **Anti-scalding failsafe**: shuts off immediately if cold water supply fails.
- Swivelling spout **L. 190mm H. 230mm with smooth interior**.
- **BIOSAFE** hygienic **spout outlet**, suitable for fitting a BIOFIL terminal filter (see page 97).
- Scale-resistant **thermostatic cartridge** for adjusting the temperature.
- ¼-turn ceramic head for adjusting the flow rate.
- Temperature can be adjusted, with two temperature limiters: first temperature limiter set at 38°C, and second set at 41°C.
- **Thermal shocks are easy to undertake** without removing the control knob or shutting off the water supply (see page 53).
- **Flow rate regulated at 9 lpm**.
- ERGO control knobs.
- PEX flexibles F¾" with filters and non-return valves.
- Reinforced fixing by 2 stainless steel rods.



H9716

SECURITHERM basin mixer H. 210mm L. 150mm	H9726
Option: BIOFIL terminal filters (see page 28), copper tails (see page 93)	

SECURITHERM sink mixer H. 230mm L. 200mm	H9716
Options: BIOFIL terminal filters (see page 28), wastes (see page 91), Copper tails (see page 93)	



- **SECURITHERM** anti-scalding failsafe: immediate shut-off if cold water supply fails
- **Securitouch** hot water insulation: prevents any risk of burns when touching the mixer
- **BIOSAFE** infection control: spout with smooth interior, easy to remove for cleaning and disinfection
- **Ergonomic**: controls are easy to grip, ideal for hospital patients, children, the elderly or disabled people

SECURITHERM Securitouch sink mixer with BIOCLIP spout

Wall-mounted dual control thermostatic mixer with removable spout

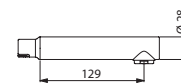


Related products

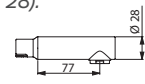


BIOCLIP stainless steel spouts

- **Removable spout** for cleaning/disinfection or autoclaving.
- Hygienic flow straightener, suitable for fitting a terminal filter (see *BIOFIL cartridges* page 28).



20002



20003

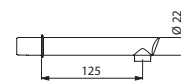
2 removable stainless steel spouts Ø 28mm

L. 129mm	20002
L. 77mm	20003



BIOCLIP disposable spouts

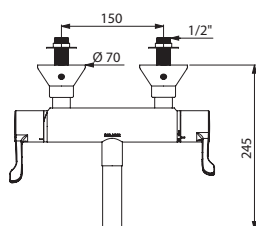
- **Removable, disposable spout** made from recyclable Hostaform® with star-shaped flow straightener.



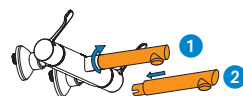
20015

15 removable disposable spouts Ø 22mm

L. 125mm	20015
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H9719P



To replace a removable spout with a BIOFIL spout:

- 1 Either pull the disposable spout or turn the stainless steel spout through 90° clockwise and then pull it towards you to remove it.
- 2 Insert the BIOFIL spout and turn it through 90° anti-clockwise.



BIOCLIP BIOFIL spouts

- **Removable spout with integrated anti-bacterial filter.**
- Single use, sterilising grade 0.1µm absolute-rated.
- Compatible with and resistant to chemical and thermal shocks in the water system (for more information, see page 27).



20040.10P/30040.10P

10 filter spouts L. 138mm, Ø 22mm

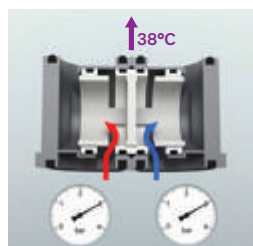
Sterile, 62 days	20040.10P
Non-sterile, 62 days	30040.10P

SECURITHERM sink mixer with BIOCLIP spout

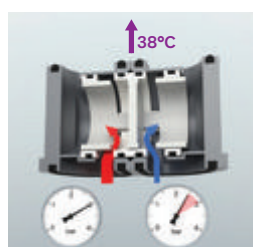
Stainless steel spout	
With in-line STOP / PURGE connectors	H9719P
Disposable spout	
With offset STOP / PURGE connectors	H9718
With offset standard connectors	H9718S

Option: Wastes (see page 91)

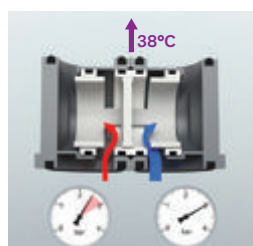
The principle of temperature regulation in an EP cartridge



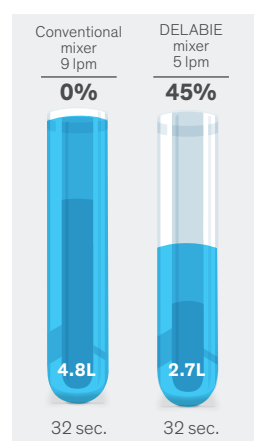
HW 3 bar/CW 3 bar at 38°C



HW 3 bar/CW 2.5 bar at 38°C



HW 2.5 bar/CW 3 bar at 38°C



Water savings per use

SECURITHERM: OPTIMISED ANTI-SCALDING SAFETY

To reduce the risk of bacterial development, hot water must be circulated at high temperatures in the system while reducing the risk of scalding at the point-of-use.

Automatic anti-scalding safety

SECURITHERM pressure-balancing technology, known as "EP", ensures instant and automatic safety. If the Cold Water supply fails, the Hot Water flow rate is reduced, removing the risk of scalding for the user. If the Hot Water supply fails, the Cold Water flow rate is likewise reduced.

Maximum temperature limiter

All DELABIE mixers are supplied with a pre-set maximum temperature limiter engaged to save time during installation. This can be adjusted by the installer. The user cannot increase the temperature above the maximum set temperature, reducing the risk of scalding.

Pressure-balancing

The EP cartridge compensates for the unavoidable variations in pressure in the system (draw off at other outlets in the system, etc.) ensuring that the water temperature at the outlet remains constant. The EP cartridge also removes the need for pressure regulators upstream of the mixer, which are complex and have large cavities and several membranes which are an additional source of niches where microbes can develop.

COMFORT AND ERGONOMICS

Pressure-balancing and temperature stability

By compensating for the variations in pressure between the Hot Water and Cold Water supplies, SECURITHERM EP mixers provide users with a constant temperature, removing any risk of scalding.

Optimised hand washing and personal washing

thanks to a large drop height and increased spout length.

Ergonomic controls

A large range of ergonomic control levers to meet the specific requirements of different users.

45% WATER AND ENERGY SAVINGS

Flow rate limited to 5 lpm

Fitted with flow rate limiters set at 5 lpm at 3 bar, SECURITHERM EP basin mixers can significantly reduce water consumption while ensuring optimal user comfort.

The water savings generated allow energy savings and less equipment is required: lower capacity pipework and water heating equipment can be installed. Lower water volumes in the installation mean a lower risk of bacterial proliferation.

BIOSAFE: INFECTION CONTROL

BIOCLIP removable mixers for cleaning/disinfection

BIOCLIP mixers can be completely removed from their base, providing simple and effective solutions to fight against the spread of germs inside and on the outside of mixers and taps, and against the spread of infectious bacteria by hand.

They allow easy cleaning and disinfection, both preventative and curative.

Preventative action

In hospitals and care homes, strict protocols must be followed to limit bacterial proliferation effectively. A cleaning regime for mixers and taps must take place regularly, depending on the age and the risk level of the installation.

Regularly cleaning mixers and taps in a de-scaling solution helps to remove deposits and encrustations, and to remove biofilm.

Curative action

If a water sample taken from a mixer or tap tests positive for *Pseudomonas aeruginosa* or *Legionella* spp., the mixer / tap can be easily removed by maintenance staff for cleaning and disinfection.

Body with smooth interior

Most mixers and taps have bodies and spouts with rough interiors. As a result, they provide niches where bacteria can adhere.

All the internal parts of the body and spout of certain DELABIE models are completely smooth, reducing biofilm attachment and making it easier to treat.

A study in June 2010 by the BioPI laboratory and the Department for Biological Studies at Jules Verne University in Amiens, France showed that under constant conditions, **mixers and taps with smooth interiors have *Pseudomonas aeruginosa* contamination levels 14 times lower than those mixers and taps with rough bodies.**

Low volume of standing water in the body

Some DELABIE basin mixers have specifically designed interiors that reduce the volume of standing water in the body and thus significantly reduce the risk of bacterial development. In effect, **water flows from the inlets to the cartridge via narrow tubes which can only hold a limited volume of water.**

Specifically designed spout heights

- A high spout reduces the risk of retro-contamination by bacteria.
- Deck and wall-mounted mixers with high spouts are suitable for fitting anti-bacterial terminal filters.

BIOSAFE hygienic outlet

Made from Hostaform®, its smooth internal surface provides nowhere for impurities or scale to adhere (no grid, partitions or star-shaped structure), reducing the emergence and spread of bacteria and germs in damp conditions.

It can only be installed on a mixer or tap that already has a restricted flow rate to ensure a good flow with no splashing.

PEX flexible supply hoses

These flexibles will withstand thermal and chemical shocks undertaken in healthcare facilities, in the event of preventative or curative treatment against bacterial development.

Soft-tempered copper tails are available on request, and are also able to withstand thermal shocks.

AND ALSO...

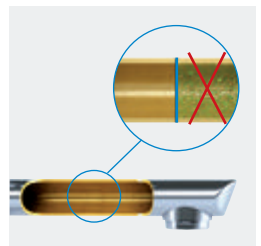
Robust

- Body, base and spout made from chrome-plated brass.
- Reinforced fixing by 2 stainless steel rods with back-nuts for deck-mounted models: easy to install and reduces vandalism.

10-year warranty against any manufacturing defects.



Removable mixer



Body with smooth interior



BIOSAFE hygienic outlet





2620EP: MULTIPLE DEMANDS, A UNIQUE CONCEPT

The first mixer to meet every need

SECURITHERM: ANTI-SCALDING SAFETY

As with all SECURITHERM EP mixers, the new 2620EP mixer is fitted with a maximum temperature limiter, with automatic anti-scalding safety, and it also has the following specific advantages:

Pressure balancing

The 2620EP mixer is fitted with a pressure-balancing cartridge. This technology compensates for the unavoidable variations in pressure in the system (draw off at other outlets in the system, etc.) ensuring that the water temperature at the outlet remains constant (for more information see page 62).

Securitouch technology

The body and mechanism of the 2620EP mixer have thermal insulation. Hot water flows from the inlets to the cartridge inside flexibles or copper tails then to the mechanism. This interior design ensures the **absence of hot spots**.

Thermal shock safety

The 2620EP is the **only mechanical mixer on the market allowing thermal shocks at the temperature of the Hot Water in the system without removing the control lever or shutting off the Cold Water supply**. To override the temperature limiter, simply press the little red button behind the control lever.

BIOSAFE: INFECTION CONTROL

Very low water volume in the body

This mixer has been specifically designed to reduce the volume of standing water in the body to a minimum.

A comparison of standing water volumes in the body of a standard mixer and a 2620EP mixer:

Standard mixer	2620EP mixer
101,100mm ³	15,200mm ³

Its design, unique on the market, reduces both the volume of water in the body by up to 85%, and also bacterial proliferation. This, combined with narrower water passages, means that water flows at a higher velocity, helping to control biofilm.

BIOSAFE outlet integrated into the mixer body

The BIOSAFE outlet is integrated directly into the mixer body. This design, with no spout, eliminates the area that is highly susceptible to bacterial development. This BIOSAFE outlet is made from Hostaform®, its smooth internal surface provides nowhere for impurities or scale to adhere, reducing the emergence and spread of bacteria and germs in damp conditions.

No contact with chrome, nickel or lead

DELABIE has anticipated the new European drinking water directive by designing mixers that have **no contact with chrome, nickel and lead**. Therefore the water delivered is safe and more wholesome.

MODERN DESIGN

The **sleek lines** of this mixer with **no spout** create a contemporary design without neglecting user comfort.

The simple shape of the mixer reduces the build-up of dirt and facilitates cleaning, the fundamentals of hygiene.

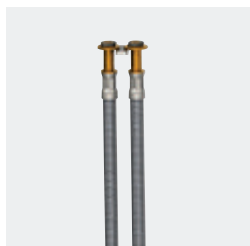
AND ALSO...

Easy to install

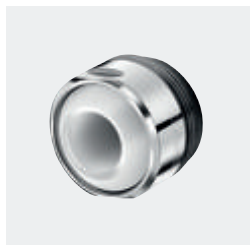
DELABIE has fitted its new mixers with **flexible hoses with rotating unions** or with copper tails preventing any twisting. They can be removed if necessary.



Thermal shock safety



Rotating PEX flexibles or copper tails



BIOSAFE hygienic outlet



THERMAL SHOCK FEATURE
Total safety
Easy to undertake a thermal shock

**PRESSURE-BALANCING
CARTRIDGE**
Temperature
and pressure stability
Reduces HW flow rate
if CW supply fails

COPPER PIPES
Easy to install

MAXIMUM TEMPERATURE LIMITER
Anti-scalding safety

**BIOSAFE OUTLET
INTEGRATED INTO THE MIXER BODY**
Maximum hygiene

**CARTRIDGE AND BODY
WITH LOW WATER VOLUME**
Controlling bacterial proliferation

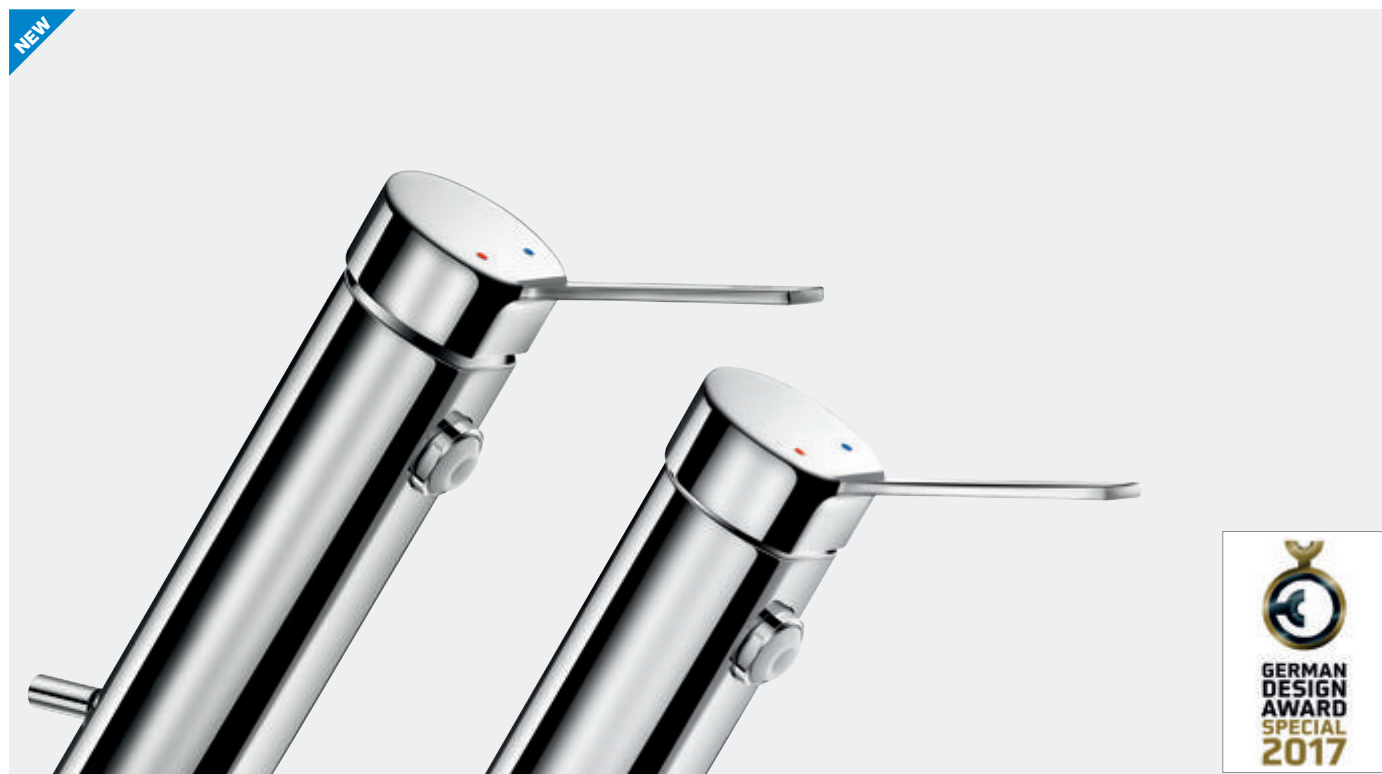




- **SECURITHERM EP** anti-scalding safety: maximum temperature limiter, HW flow rate is reduced if CW supply fails
- **SECURITHERM** thermal shock safety without removing the control lever or shutting off the cold water
- **BIOSAFE** infection control: body with very low water volume, no spout, integrated BIOSAFE outlet
- **Water savings:** 56%

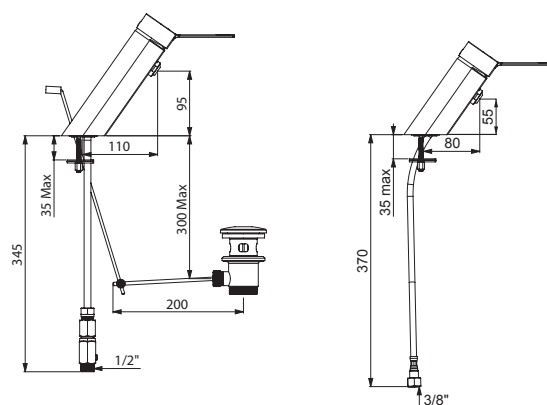
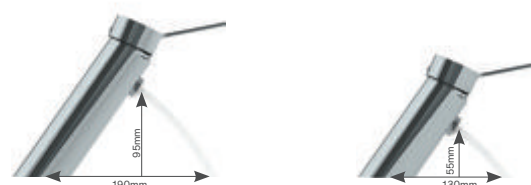
SECURITHERM EP BIOSAFE basin mixer H. 95mm or MINI H. 50mm

Pressure-balancing mixer with no spout



- **Anti-scalding safety:** HW flow rate is reduced if CW supply fails.
- **Securitouch thermal insulation prevents burns.**
- Mixer **with BIOSAFE hygienic outlet integrated into the body.**
- **Ø 35mm** ceramic pressure-balancing cartridge.
- Pre-set maximum **temperature limiter.**
- **Thermal shocks are possible** without removing the control lever or shutting off the CW supply.
- **Flow rate limited to 4 lpm** at 3 bar.
- **Body with very low water volume** (reduces bacterial development).
- Solid control lever.
- Chrome-plated stainless steel body.
- Rotating PEX flexibles F $\frac{3}{8}$ " or copper tails.
- Reinforced fixing via 2 stainless steel rods.

Also available with conventional cartridge (see page 77)



26206EP

2621MINIEP

SECURITHERM EP BIOSAFE basin mixer	
H. 95mm L. 110mm with PEX flexible F$\frac{3}{8}$	
With ergonomic pop-up waste 1 $\frac{1}{4}$ " in brass	2620EP
Without pop-up waste	2621EP
H. 50mm L. 80mm with PEX flexible F$\frac{3}{8}$	
With ergonomic pop-up waste 1 $\frac{1}{4}$ " in polypropylene	2620MINIEP
Without pop-up waste	2621MINIEP
H.95 L.110 with copper tails	
With ergonomic pop-up waste 1 $\frac{1}{4}$ " in brass	26206EP
Without pop-up waste	26216EP
H.50 L.80 with copper tails	
With ergonomic pop-up waste 1 $\frac{1}{4}$ " in polypropylene	26206MINIEP
Without pop-up waste	26216MINIEP

Option: wastes (see page 91)

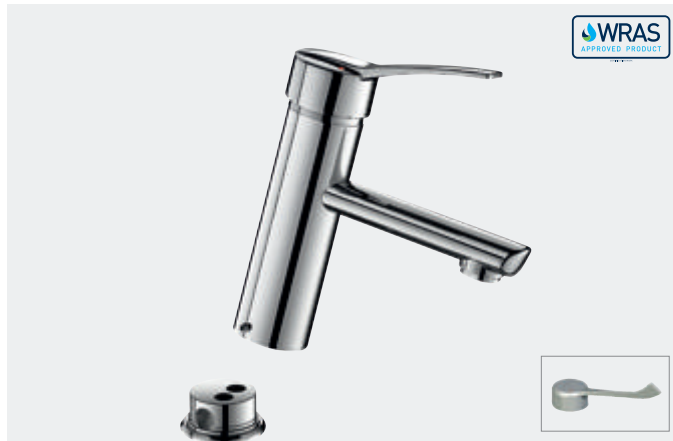
* German Design Award Special 2017 awarded to the 2621EP model



- **SECURITHERM EP** anti-scalding safety: maximum temperature limiter, HW flow rate is reduced if CW supply fails
- **BIOSAFE** infection control: body and spout with smooth interiors and low water volume
- **BIOSAFE**: fewer components in contact with the water, reduces bacterial development
- **Water savings**: 45%

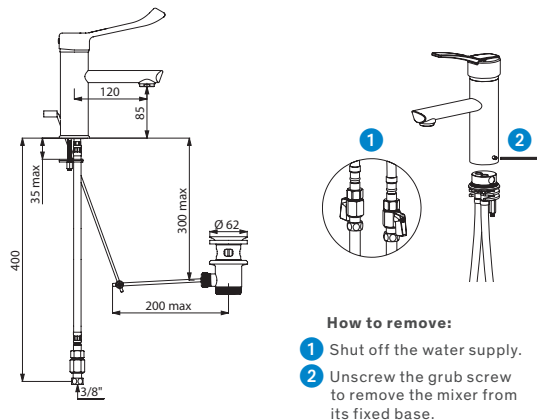
SECURITHERM EP BIOCLIP basin mixer H. 85mm

Removable pressure-balancing mixer, smooth interior



- **Can be removed entirely** for cleaning/disinfection (see page 10).
- **Anti-scalding safety**: HW flow rate is reduced if CW supply fails.
- Straight spout **H. 85mm L. 120mm** with hygienic flow straightener.
- **Ø 40mm pressure-balancing ceramic cartridge**.
- Pre-set maximum temperature limiter.
- **Flow rate limited to 5 lpm** at 3 bar.
- **Body and spout with smooth interiors and low water volume** (reduces bacterial development).
- PEX flexibles F $\frac{3}{8}$ " supplied with filters and non-return valves.
- Chrome-plated brass stopcocks.
- Reinforced fixing via 2 stainless steel rods.

Also available with conventional cartridge (see page 78)



2820LEP

SECURITHERM EP BIOCLIP basin mixer H. 85mm L. 120mm

Solid control lever, with stopcocks

With ergonomic pop-up waste 1 $\frac{1}{4}$ " in brass	2820TEP
Without pop-up waste	2821TEP

Solid control lever, without stopcocks

With ergonomic pop-up waste 1 $\frac{1}{4}$ " in brass	28201TEP
Without pop-up waste	28211TEP

Hygiene control lever L. 150mm, with stopcocks

With ergonomic pop-up waste 1 $\frac{1}{4}$ " in brass	2820LEP
Without pop-up waste	2821LEP

Hygiene control lever L. 150mm, without stopcocks

With ergonomic pop-up waste 1 $\frac{1}{4}$ " in brass	28201LEP
Without pop-up waste	28211LEP

Options: Wastes (see page 91), copper tails (see page 93)

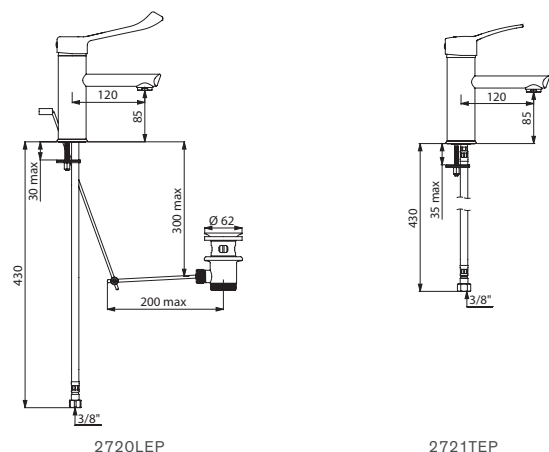
SECURITHERM EP basin mixer H. 85mm

Pressure-balancing mixer, smooth interior



- **Anti-scalding safety**: HW flow rate is reduced if CW supply fails.
- Straight spout **H. 85mm L. 120mm** with hygienic flow straightener.
- **Ø 40mm pressure-balancing ceramic cartridge**.
- Pre-set maximum temperature limiter.
- **Flow rate limited to 5 lpm** at 3 bar.
- **Body and spout with smooth interiors and low water volume** (reduces bacterial development).
- PEX flexibles F $\frac{3}{8}$ " supplied with filters and non-return valves.
- Reinforced fixing via 2 stainless steel rods.

Also available with conventional cartridge (see page 78)



2720LEP

2721TEP

SECURITHERM EP basin mixer H. 85mm L. 120mm

Solid control lever

With ergonomic pop-up waste 1 $\frac{1}{4}$ " in brass	2720TEP
Without pop-up waste	2721TEP

Hygiene control lever L. 150mm

With ergonomic pop-up waste 1 $\frac{1}{4}$ " in brass	2720LEP
Without pop-up waste	2721LEP

Option: Wastes (see page 91), copper tails (see page 93)



- **SECURITHERM EP** anti-scalding safety: maximum temperature limiter, HW flow rate is reduced if CW supply fails
- **BIOSAFE**: fewer components in contact with the water, reduces bacterial development
- **Water savings**: 45%

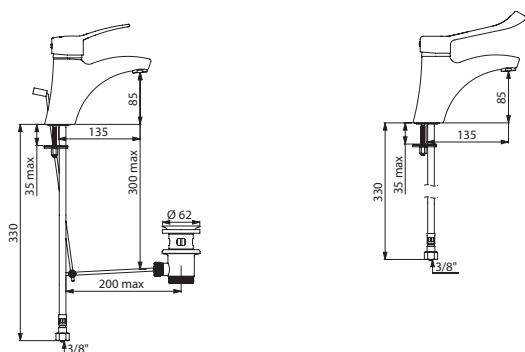
SECURITHERM EP basin mixer H. 85mm

Pressure-balancing mixer



- **Anti-scalding safety**: HW flow rate is reduced if CW supply fails.
- Spout **H. 85mm L. 135mm** with **BIOSAFE** hygienic outlet (see page 97).
- **Ø 40mm pressure-balancing ceramic cartridge**.
- Pre-set maximum **temperature limiter**.
- **Flow rate limited to 5 lpm** at 3 bar.
- PEX flexibles F $\frac{3}{8}$ " supplied with filters and non-return valves.
- Reinforced fixing via 2 stainless steel rods.

Also available with conventional cartridge (see page 79)



2520TEP

2521LEP

SECURITHERM EP basin mixer H. 85mm L. 135mm

Sculptured control lever

With ergonomic pop-up waste 1 $\frac{1}{4}$ " in brass	2520EP
Without pop-up waste	2521EP

Solid control lever

With ergonomic pop-up waste 1 $\frac{1}{4}$ " in brass	2520TEP
Without pop-up waste	2521TEP

Hygiene control lever L. 150mm

With ergonomic pop-up waste 1 $\frac{1}{4}$ " in brass	2520LEP
Without pop-up waste	2521LEP

Option: Wastes (see page 91), copper tails (see page 93)

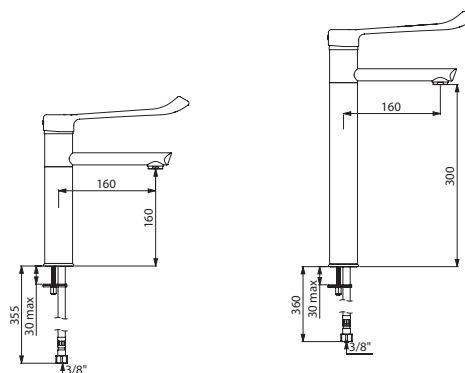
SECURITHERM EP basin mixer H. 160 - 300mm

Pressure-balancing mixer, smooth interior



- **Anti-scalding safety**: HW flow rate is reduced if CW supply fails.
- **High spout H. 160 - 300mm, L. 160mm** with **hygienic flow straightener** suitable for fitting a **BIOFIL** terminal filter (see page 28).
- **Ø 40mm pressure-balancing ceramic cartridge**.
- Pre-set maximum **temperature limiter**.
- **Flow rate limited to 5 lpm** at 3 bar.
- **Body and spout with smooth interiors and low water volume** (reduces bacterial development).
- PEX flexibles F $\frac{3}{8}$ " supplied with filters and non-return valves.
- Reinforced fixing via 2 stainless steel rods.

Also available with conventional cartridge (see page 83)



2565T1EP

2565T3EP

SECURITHERM EP basin/sink mixer H. 160 - 300mm, L. 160mm

Hygiene control lever L. 215mm

Spout H. 160mm L. 160mm	2565T1EP
Spout H. 300mm L. 160mm	2565T3EP

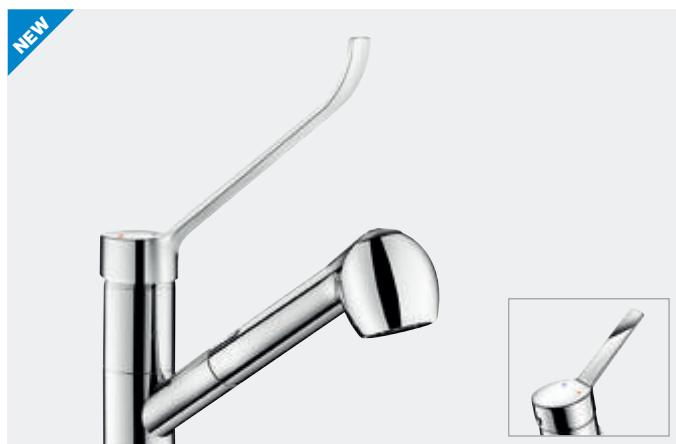
Options: BIOFIL cartridge filters (see page 28), copper tails (see page 93), Wastes (see page 91)



- **SECURITHERM EP** anti-scalding safety: maximum temperature limiter, HW flow rate is reduced if CW supply fails
- **BIOSAFE flexible shower hose reduces bacterial proliferation**: transparent flexible hose allows visual checks to ensure that the interior is not contaminated with biofilm, flexible hose has a smooth interior/exterior and low water volume
- **Comfort**: retracting hand spray with 2 jet options: flow straightener/rain effect

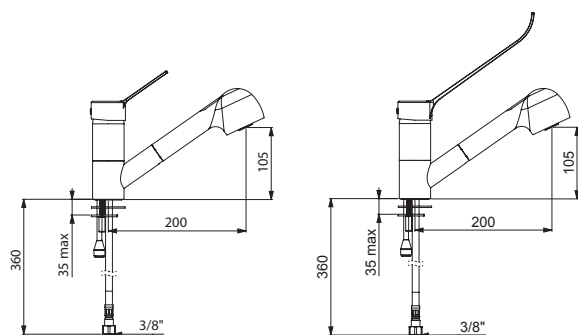
SECURITHERM EP, retracting hand spray H.105

Pressure-balancing mixer with swivelling spout



- **Anti-scalding safety**: HW flow rate is reduced if CW supply fails.
- **Securitouch thermal insulation prevents burns.**
- Swivelling spout **H. 105mm L. 200mm.**
- Retracting hand spray with 2 jet options: flow straightener / rain effect.
- **Ø 40mm pressure-balancing ceramic cartridge.**
- Pre-set maximum **temperature limiter.**
- **Body with smooth interior.**
- **Flow rate 12 lpm** at 3 bar.
- Mixed water brass outlet L. 105mm.
- **BIOSAFE flexible shower hose reduces bacterial proliferation**: transparent polyurethane flexible hose, smooth interior and exterior, low water volume (interior Ø 6mm).
- PEX flexibles F $\frac{3}{8}$ " supplied with filters and non-return valves.
- Reinforced fixing via 2 stainless steel rods.

Also available with conventional cartridge (see page 84)



2211EP

2211LEP

SECURITHERM EP sink mixer with retracting hand spray H. 105 L. 200

With solid control lever	2211EP
With Hygiene control lever L. 175mm	2211LEP

Option: wastes (see page 91)

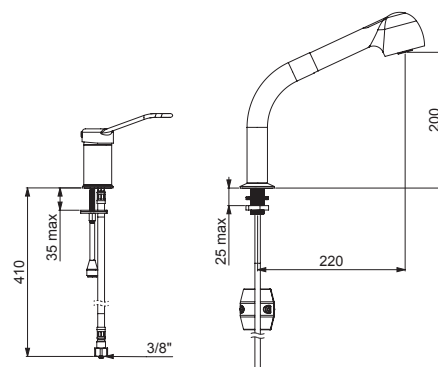
SECURITHERM EP, retracting hand spray H.200

Pressure-balancing mixer set and column



- **Anti-scalding safety**: HW flow rate is reduced if CW supply fails.
- **Securitouch thermal insulation prevents burns.**
- Swivelling column **H. 200mm L. 220mm.**
- Retracting hand spray with 2 jet options: flow straightener / rain effect.
- **Ø 35mm pressure-balancing ceramic cartridge.**
- Pre-set maximum **temperature limiter.**
- **Mixer body and column with smooth interiors.**
- **Flow rate 12 lpm** at 3 bar.
- Sculptured control lever.
- Mixed water brass outlet L. 105mm.
- **BIOSAFE flexible shower hose reduces bacterial proliferation**: transparent polyurethane flexible hose, smooth interior and exterior, low water volume (interior Ø 6mm).
- PEX flexibles F $\frac{3}{8}$ " supplied with filters and non-return valves.
- Reinforced fixing via 2 stainless steel rods.

Also available with conventional cartridge (see page 84)



2599EP

SECURITHERM EP sink mixer with retracting hand spray H.200 L.220

Mixer and column	2599EP
Mixer only	2542EP
Column only	1316

Option: wastes (see page 91)



- **SECURITHERM EP** anti-scalding safety: maximum temperature limiter, HW flow rate is reduced if CW supply fails
- **BIOSAFE** infection control: body and spout with smooth interior and low water volume
- **Ergonomic**: sculptured or Hygiene control levers are easy to grip

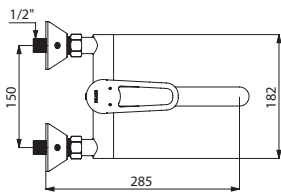
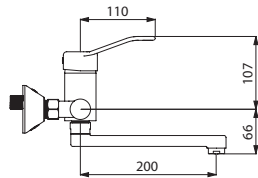
SECURITHERM EP Securitouch mixer for basins, sinks or troughs

Wall-mounted pressure-balancing mixer, smooth interior

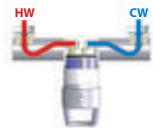


- **Anti-scalding safety**: HW flow rate is reduced if CW supply fails.
- **Securitouch thermal insulation prevents burns.**
- **Flat, swivelling under spout L. 200mm** with hygienic flow straightener suitable for fitting a BIOFIL terminal filter (see page 28).
- **Ø 40mm pressure-balancing ceramic cartridge.**
- Pre-set maximum **temperature limiter.**
- **Flow rate 5 lpm** at 3 bar.
- **Body and spout with smooth interiors and low water volume** (reduces bacterial development).
- Supplied with 2 offset wall connectors M $\frac{1}{2}$ " M $\frac{3}{4}$ " (see page 92).

Also available with conventional cartridge (see page 86)



2446EP



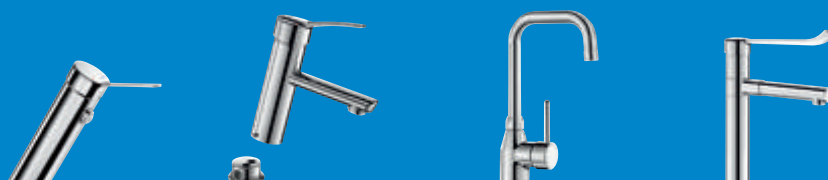
Low water volume
+ Smooth interior
+ Thermal insulation

SECURITHERM EP Securitouch wall-mounted mixer for sinks/troughs	
Sculptured control lever	
Offset STOP/PURGE connectors	2446EP
Offset standard connectors	2446EPS
Hygiene control lever L. 150mm	
Offset STOP/PURGE connectors	2446LEP
Offset standard connectors	2446LEPS
Options: BIOFIL cartridge filters (see page 28) Wastes (see page 91)	



Mixers with ceramic cartridges for washbasins, sinks and troughs

DECK-MOUNTED MIXERS 77



MIXERS WITH RETRACTING HAND SPRAYS 84



WALL-MOUNTED MIXERS 86





BIOSAFE: INFECTION CONTROL

BIOCLIP removable mixers for cleaning/disinfection

Since they are in contact with water, the internal surfaces of mixers and taps are exposed to bacterial proliferation. BIOCLIP mixers provide simple and effective solutions to fight against the spread of germs inside and on the outside of mixers and taps, and against the spread of infectious bacteria by hand. They allow easy cleaning and disinfection, both preventative and curative.

Body with smooth interior

Most mixers and taps have bodies and spouts with rough interiors. As a result, they provide niches where bacteria can adhere. **All the internal parts of the body and spout of certain DELABIE models are completely smooth, reducing biofilm attachment and making it easier to treat.**

A study in June 2010 by the BioPI laboratory and the Department for Biological Studies at Jules Verne University in Amiens, France showed that under constant conditions, **mixers and taps with smooth interiors have *Pseudomonas aeruginosa* contamination levels 14 times lower than those mixers and taps with rough bodies.**

Low volume of standing water in the body

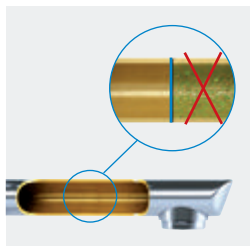
Some DELABIE basin mixers have specifically designed interiors that reduce the volume of standing water in the body and thus significantly reduce the risk of bacterial development. In effect, **water flows from the inlets to the cartridge via narrow tubes which can only hold a limited volume of water.**

BIOSAFE hygienic outlet

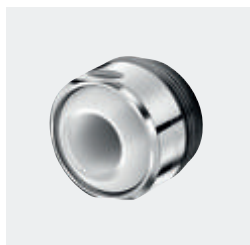
Made from Hostaform®, its smooth internal surface provides nowhere for impurities or scale to adhere (no grid, partitions or star-shaped structure), reducing the emergence and spread of bacteria and germs in damp conditions. It can only be installed on a mixer or tap that already has a restricted flow rate to ensure a good flow with no splashing.



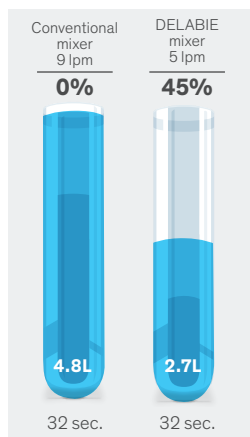
Removable mixer



Body with smooth interior



BIOSAFE hygienic outlet



Water savings per use

ANTI-SCALDING SAFETY

Maximum temperature limiter

All DELABIE mixers are supplied with a pre-set maximum temperature limiter. The user cannot increase the temperature above the maximum set temperature, reducing the risk of scalding.

COMFORT

Temperature stability

Unlike conventional mechanical washbasin mixers, DELABIE mixers 2820/2720/2620/2520 are fitted with an exclusive solution which effectively reduces temperature variations if there are pressure fluctuations in the system.

A comparison of the behaviour of standard mechanical mixers and DELABIE mixers based on pressure changes in the system:

	Mixed water temperature variations		
	HW: 3 bar CW: 3 bar	HW: 3 bar CW: 2 bar	HW: 2 bar CW: 3 bar
Standard mechanical mixers	41°C	61°C	17.5°C
DELABIE mechanical mixers refs. 2820/2720 2620/2520	41°C	47°C	34.5°C

However, these mixers do not have the precision of SECURITHERM thermostatic or EP mixers and they are not fitted with an anti-scalding failsafe (Hot Water shut-off if the Cold Water supply fails). They provide an intermediate economic solution.

Reduced risk of Hot Water/Cold Water cross flow

On the new generation of DELABIE mechanical mixers, the hot water can only flow back into the cold water supply (or vice versa) if the pressure differential between the inlets is greater than 1 bar.

Therefore, the risk of cross flow between the Hot Water and Cold Water is very small, unlike other mixers. As a result, the risk of bacterial proliferation is reduced. Moreover, this solution removes the need for non-return valves to be installed.

45% WATER AND ENERGY SAVINGS

Flow rate limited to 5 lpm

Fitted with a flow rate limiter set at 5 lpm at 3 bar, DELABIE mechanical basin mixers can significantly reduce water consumption while ensuring optimal user comfort (for more information see pages 14 - 15).

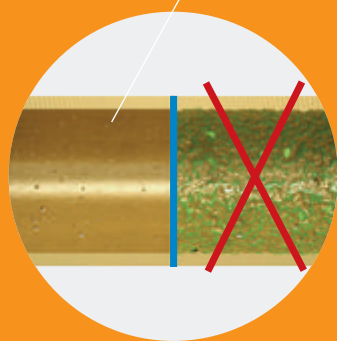
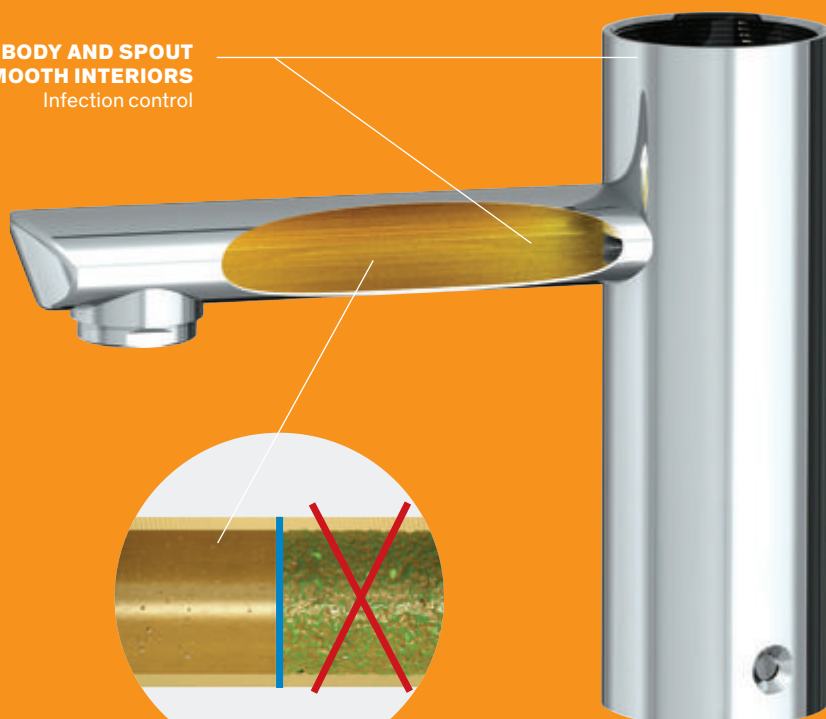
**ERGONOMIC
CONTROL LEVER**
Easy to grip



**MAXIMUM
TEMPERATURE LIMITER**
Anti-scalding safety

**CARTRIDGE AND BODY
WITH LOW WATER
VOLUME**
Infection control

**BODY AND SPOUT
WITH SMOOTH INTERIORS**
Infection control



**REMOVABLE
BIOCLIP MIXER**
Mixer is easy
to clean/disinfect





2620: MULTIPLE DEMANDS, A UNIQUE CONCEPT

The first mixer to meet every need

BIOSAFE: INFECTION CONTROL

The new generation of 2620 mixers benefits from a whole range of BIOSAFE solutions:

Very low water volume in the body

This mixer has been specifically designed to reduce the volume of standing water in the body to a minimum.

A comparison of standing water volumes in the body of a standard mixer and a 2620 mixer:

Standard mixer	2620 mixer
101,100mm ³	15,200mm ³

Its design, unique on the market, reduces both the volume of water in the body by up to 85%, and also bacterial proliferation.

This, combined with narrower water passages, means that water flows at a higher velocity, helping to control biofilm.

BIOSAFE outlet integrated into the mixer body

The BIOSAFE outlet is integrated directly into the mixer body. This design, with no spout, eliminates the area that is highly susceptible to bacterial development. This BIOSAFE outlet is made from Hostaform®, its smooth internal surface provides nowhere for impurities or scale to adhere, reducing the emergence and spread of bacteria and germs in damp conditions.

No contact with chrome, nickel or lead

DELABIE has anticipated the new European drinking water directive by designing mixers that have **no contact with chrome, nickel and lead**. Therefore the water delivered is safe and more wholesome.

ANTI-SCALDING SAFETY

As with all DELABIE mechanical mixers, the new 2620 mixer is fitted with a maximum temperature limiter. It also has the following specific advantages:

Securitouch technology

The body and mechanism of the 2620 mixer have thermal insulation. Hot water flows from the inlets to the cartridge inside flexibles or copper tails then to the mechanism. This interior design ensures the **absence of hot spots**.

Thermal shock safety

The 2620 is the **only mechanical mixer on the market allowing thermal shocks at the temperature of the Hot Water in the system without removing the control lever or shutting off the Cold Water supply**.

To override the temperature limiter, simply press the little red button behind the control lever.

MODERN DESIGN

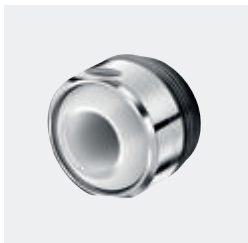
The **sleek lines** of this mixer with **no spout** create a contemporary design without neglecting user comfort.

The simple shape of the mixer reduces the build-up of dirt and facilitates cleaning, the fundamentals of hygiene.

AND ALSO...

Easy to install

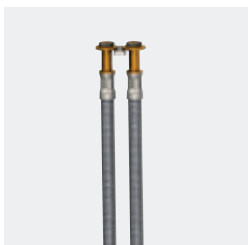
DELABIE has fitted its new mixers with **flexible hoses with rotating unions** or with copper tails, preventing any twisting. They can be removed if necessary.



BIOSAFE hygienic outlet



Thermal shock safety



PEX flexibles with rotating unions





- **BIOSAFE** infection control: body with very low water volume, no spout, integrated BIOSAFE outlet
- **SECURITHERM** anti-scalding safety: maximum temperature limiter
- **SECURITHERM** thermal shock safety without removing the control lever or shutting off the cold water
- **Water savings:** 56%

BIOSAFE basin mixer H. 95mm or MINI H. 50mm

Mechanical mixer with no spout



- Mixer **with BIOSAFE** hygienic outlet integrated into the body.
- **Ø 35mm** ceramic cartridge.
- **Securitouch** thermal insulation prevents burns.
- Pre-set maximum **temperature limiter**.
- **Thermal shocks are possible** without removing the control lever or shutting off the CW supply.
- **Body with very low water volume** (reduces bacterial development).
- **Flow rate limited to 4 lpm** at 3 bar.
- Solid control lever.
- Chrome-plated stainless steel body.
- Rotating PEX flexibles F $\frac{3}{8}$ " or copper tails.
- Reinforced fixing via 2 stainless steel rods.

Also available with pressure-balancing cartridge (see page 67)

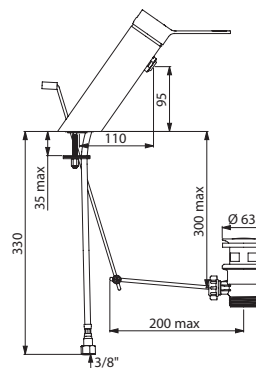
2620MINI & 2621MINI availability:

2nd half 2017, please contact sales office to check availability.

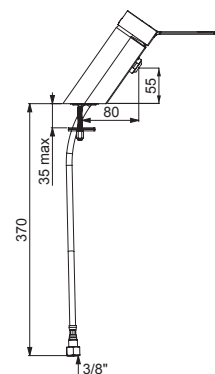
BIOSAFE basin mixer	
H. 95mm L. 110mm with PEX flexibles F$\frac{3}{8}$"	
With ergonomic pop-up waste 1 $\frac{1}{4}$ " in brass	2620
Without pop-up waste	2621
H. 50mm L. 80mm with PEX flexibles F$\frac{3}{8}$"	
With ergonomic pop-up waste 1 $\frac{1}{4}$ " in polypropylene	2620MINI
Without pop-up waste	2621MINI
H. 95mm L. 110mm with copper tails	
With ergonomic pop-up waste 1 $\frac{1}{4}$ " in brass	26206
Without pop-up waste	26216
H. 50mm L. 80mm with copper tails	
With ergonomic pop-up waste 1 $\frac{1}{4}$ " in polypropylene	26206MINI
Without pop-up waste	26216MINI

Option: wastes (see page 91)

* German Design Award Special 2017 awarded to the 2621EP model



2620



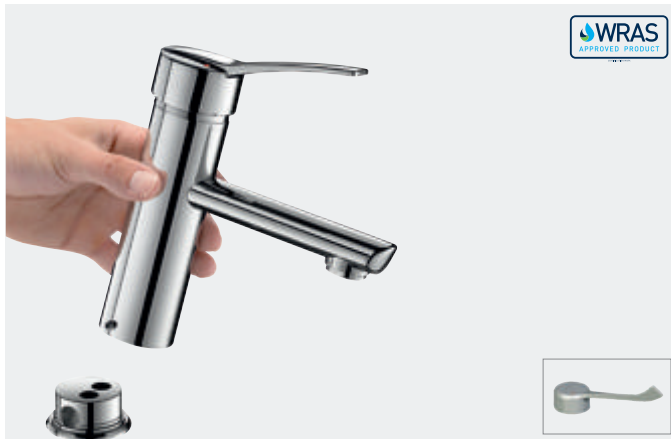
2621MINI



- **BIOSAFE** infection control: body and spout with smooth interiors and low water volume
- **BIOSAFE**: fewer components in contact with the water, reduces bacterial development
- **Anti-scalding safety**: maximum temperature limiter
- **Water savings**: 45%

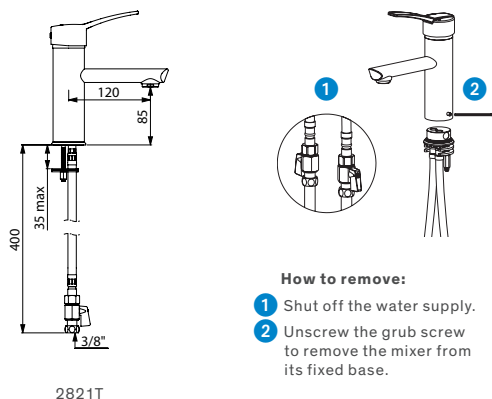
BIOCLIP basin mixer H. 85mm

Removable mechanical mixer, smooth interior



- **Can be removed entirely** for cleaning/disinfection (see page 10).
- Straight spout **H. 85mm L. 120mm** with hygienic flow straightener.
- Ø 40mm ceramic cartridge.
- Pre-set maximum **temperature limiter**.
- **Body and spout with smooth interiors and low water volumes** (reduces bacterial development).
- **Flow rate limited to 5 lpm** at 3 bar.
- PEX flexibles F $\frac{3}{8}$ " supplied with stopcocks in chrome-plated brass.
- Reinforced fixing via 2 stainless steel fixing rods.

Model also available with pressure-balancing cartridge (see page 68)



2821T

BIOCLIP basin mixer H. 85mm L. 120mm

Solid control lever, with stopcocks

With ergonomic pop-up waste 1 $\frac{1}{4}$ " in brass	2820T
Without pop-up waste	2821T

Solid control lever, without stopcocks

With ergonomic pop-up waste 1 $\frac{1}{4}$ " in brass	28201T
Without pop-up waste	28211T

Hygiene control lever L. 150mm, with stopcocks

With ergonomic pop-up waste 1 $\frac{1}{4}$ " in brass	2820L
Without pop-up waste	2821L

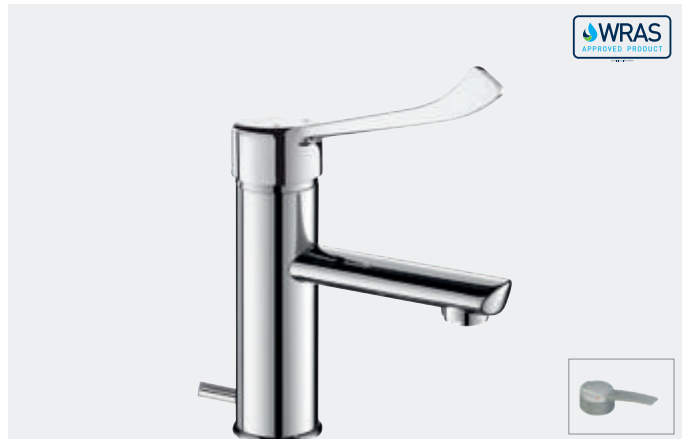
Hygiene control lever L. 150mm, without stopcocks

With ergonomic pop-up waste 1 $\frac{1}{4}$ " in brass	28201L
Without pop-up waste	28211L

Options: Wastes for models without pop-up wastes (see page 91), copper tails (see page 93)

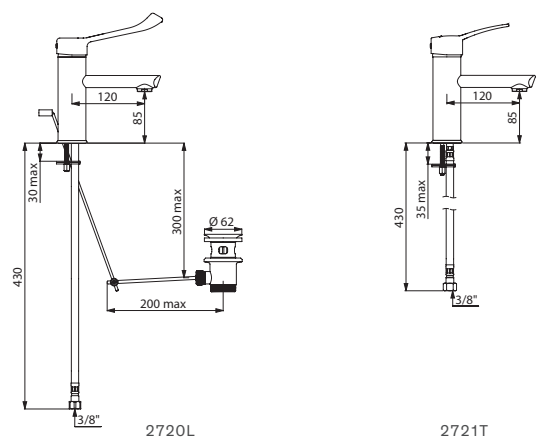
Basin mixer H. 85mm

Mechanical mixer, smooth interior



- Straight spout **H. 85mm L. 120mm** with hygienic flow straightener.
- Ø 40mm ceramic cartridge.
- Pre-set maximum **temperature limiter**.
- **Body and spout with smooth interiors and low water volumes** (reduces bacterial development).
- **Flow rate limited to 5 lpm** at 3 bar.
- PEX flexibles F $\frac{3}{8}$ ".
- Reinforced fixing via 2 stainless steel fixing rods.

Model also available with pressure-balancing cartridge (see page 68)



2720L

2721T

Basin mixer H. 85mm L. 120mm

Solid control lever

With ergonomic pop-up waste, 1 $\frac{1}{4}$ " in brass	2720T
Without pop-up waste	2721T

Hygiene control lever L. 150mm

With ergonomic pop-up waste, 1 $\frac{1}{4}$ " in brass	2720L
Without pop-up waste	2721L

Options: Wastes for models without pop-up wastes (see page 91), copper tails (see page 93)



- **Anti-scalding safety:** maximum temperature limiter
- **Water savings:** 45%

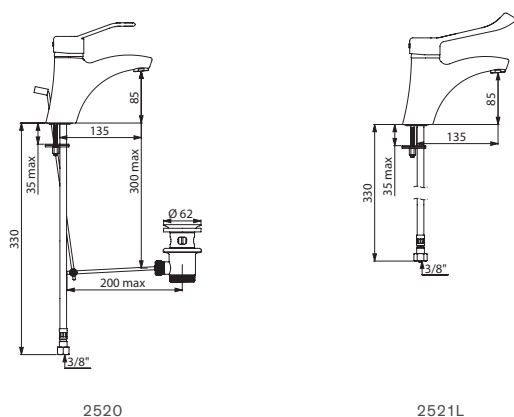
Basin mixer H. 85mm

Mechanical mixer



- Spout **H. 85mm L. 135mm** with **BIOSAFE hygienic outlet** (see page 97).
- Ø 40mm ceramic cartridge.
- Pre-set maximum **temperature limiter**.
- **Flow rate limited to 5 lpm** at 3 bar.
- PEX flexibles F $\frac{3}{8}$ ".
- Reinforced fixing via 2 stainless steel fixing rods.

Model also available with pressure-balancing cartridge (see page 69)



2520

2521L

Basin mixer H. 85mm L. 135mm

Sculptured control lever

With pop-up waste, 1 $\frac{1}{4}$ " in brass	2520
Without pop-up waste	2521

Solid control lever

With pop-up waste, 1 $\frac{1}{4}$ " in brass	2520T
Without pop-up waste	2521T

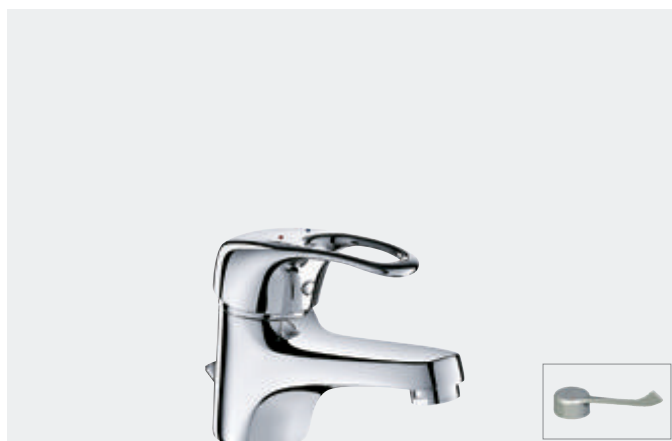
Hygiene control lever L. 150mm

With pop-up waste, 1 $\frac{1}{4}$ " in brass	2520L
Without pop-up waste	2521L

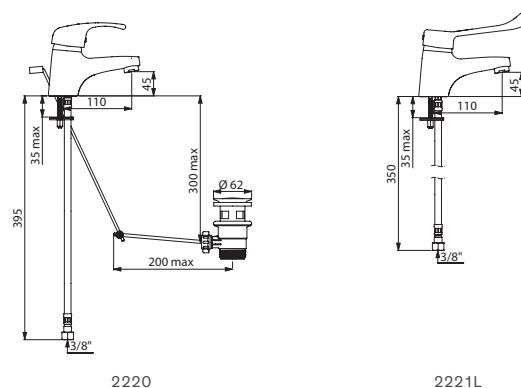
Options: Wastes for models without pop-up wastes (see page 91), copper tails (see page 93)

Basin mixer H. 45mm

Mechanical mixer



- Spout **H. 45mm L. 110mm** with hygienic flow straightener.
- Ø 40mm ceramic cartridge.
- Pre-set maximum **temperature limiter**.
- **Flow rate limited to 5 lpm** at 3 bar.
- PEX flexibles F $\frac{3}{8}$ ".
- Reinforced fixing via 2 stainless steel fixing rods.



2220

2221L

Basin mixer H. 45mm L. 110mm

Sculptured control lever

With polypropylene pop-up waste, 1 $\frac{1}{4}$ "	2220
Without pop-up waste	2221

Hygiene control lever L. 150mm

With polypropylene pop-up waste, 1 $\frac{1}{4}$ "	2220L
Without pop-up waste	2221L

Options: Wastes for models without pop-up wastes (see page 91), copper tails (see page 93)



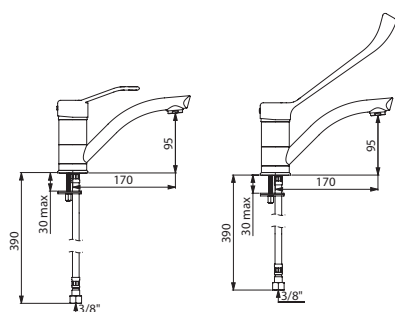
- **BIOSAFE** infection control: body and spout with smooth interiors
- **Anti-scalding safety**: maximum temperature limiter
- **Comfort**: optimised drop height and spout length for hand washing and personal washing

Basin mixer H. 95mm

Mechanical mixer, smooth interior



- **Swivelling spout H. 95mm L. 170mm** with hygienic flow straightener.
- Ø 40mm ceramic cartridge.
- Pre-set maximum **temperature limiter**.
- **Body and spout with smooth interiors.**
- **Flow rate limited to 5 lpm** at 3 bar.
- PEX flexibles F $\frac{3}{8}$ ".
- Reinforced fixing via 2 stainless steel rods.



2522

2522L

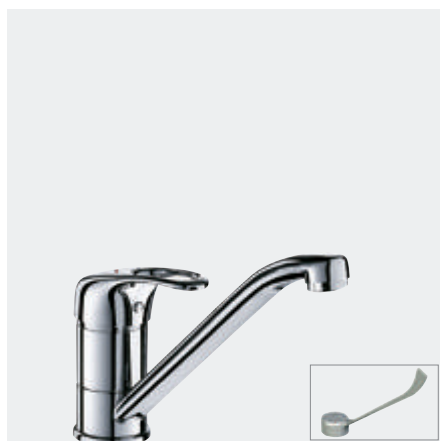
Basin mixer H. 95mm L. 170mm

Sculptured control lever	2522
Solid control lever	2522T
Hygiene control lever L. 200mm	2522L

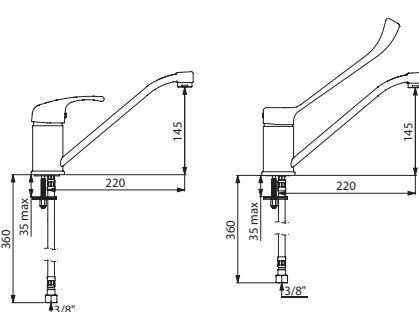
Options: Wastes (see page 91), copper tails (see page 93)

Sink mixer H. 145mm

Mechanical mixer, smooth interior



- **Swivelling spout H. 145mm L. 220mm** with hygienic flow straightener.
- Ø 40mm ceramic cartridge.
- Pre-set maximum **temperature limiter**.
- **Body and spout with smooth interiors.**
- **Flow rate limited to 9 lpm** at 3 bar.
- PEX flexibles F $\frac{3}{8}$ ".
- Reinforced fixing via 2 stainless steel rods.



2210

2210L

Sink/trough mixer H. 145mm L. 220mm

Sculptured control lever	2210
Hygiene control lever L. 200mm	2210L

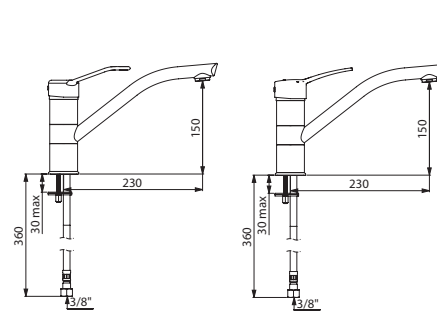
Options: Wastes (see page 91), copper tails (see page 93)

Sink or trough mixer H. 150mm

Mechanical mixer, smooth interior



- **Swivelling spout H. 150mm L. 230mm** with hygienic flow straightener.
- Ø 40mm ceramic cartridge.
- Pre-set maximum **temperature limiter**.
- **Body and spout with smooth interiors.**
- **Flow rate limited to 9 lpm** at 3 bar.
- PEX flexibles F $\frac{3}{8}$ ".
- Reinforced fixing via 2 stainless steel rods.



2510

2510T

Sink/trough mixer H. 150mm L. 230mm

Sculptured control lever	2510
Solid control lever	2510T
Hygiene control lever L. 200mm	2510L

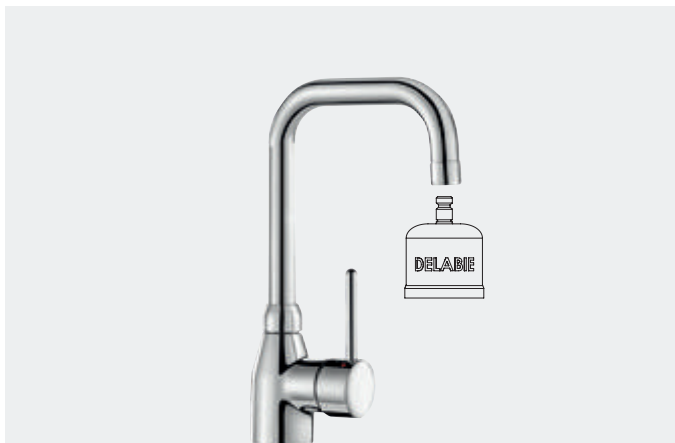
Options: Wastes (see page 91), copper tails (see page 93)



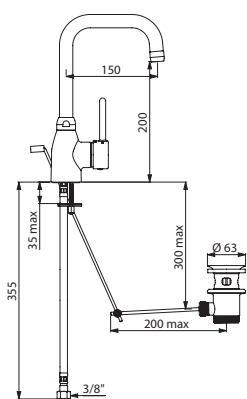
- **BIOSAFE** infection control: spout with smooth interior and BIOSAFE hygienic outlet
- **Comfort**: optimised drop height and spout length for hand washing and personal washing
- **Water savings**: 45%

Basin mixer H. 200mm L. 150mm

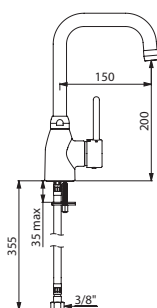
Mechanical mixer, spout with smooth interior



- **Swivelling, tubular spout** Ø 22mm, **H. 200mm L. 150mm** with **BIOSAFE** hygienic outlet (see page 97).
- **High spout suitable for fitting a BIOFIL terminal filter** (see page 28).
- Ø 35mm ceramic cartridge.
- **Flow rate limited to 5 lpm** at 3 bar.
- **Spout with smooth interior.**
- Slimline control lever.
- PEX flexibles F $\frac{3}{8}$ ".
- Reinforced fixing via 2 stainless steel rods.



2506T1



2506T1

Basin mixer H. 200mm L. 150mm

With pop-up waste, 1 $\frac{1}{4}$ " in brass

2506T1

Without pop-up waste

2506T1

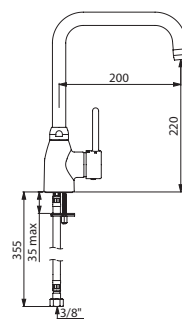
Options: BIOFIL cartridges filters (see page 28), wastes (see page 91), copper tails (see page 93)

Sink or trough mixer H. 220mm L. 200mm

Mechanical mixer, spout with smooth interior



- **Swivelling, tubular spout** Ø 22mm, **H. 220mm L. 200mm** with **BIOSAFE** hygienic outlet (see page 97).
- **High spout suitable for fitting a BIOFIL terminal filter** (see page 28).
- Ø 35mm ceramic cartridge.
- **Flow rate limited to 5 lpm** at 3 bar.
- **Spout with smooth interior.**
- Slimline control lever.
- PEX flexibles F $\frac{3}{8}$ ".
- Reinforced fixing via 2 stainless steel rods.



2506T2

Sink or trough mixer H. 220mm L. 200mm

Without pop-up waste

2506T2

Options: BIOFIL cartridges (see page 28), wastes (see page 91), copper tails (see page 93)



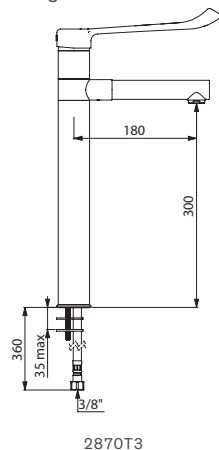
- **BIOSAFE** infection control: body and spout with smooth interiors
- **Removable spout**: area susceptible to bacterial development, mixer spouts should be cleaned regularly.
The stainless steel spout supplied with the mixer can be changed or replaced by a BIOFIL filter spout or disposable spout
- **Anti-scalding safety**: maximum temperature limiter

Mixer for sinks and troughs with swivelling BIOCLIP spout

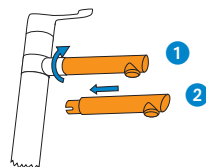
Mechanical mixer with removable spout, smooth interior



- **High, removable stainless steel swivelling spout** L. 180mm, Ø 28mm with star-shaped flow straightener.
- Supplied with **2 removable BIOCLIP stainless steel spouts** for continuous use during cleaning and disinfection. Can be replaced with a BIOFIL filter or disposable Hostaform® spout (see *opposite*).
- Ø 40mm ceramic cartridge.
- Pre-set maximum **temperature limiter**.
- **Body and spout with smooth interiors** (reduces bacterial development).
- **Flow rate limited to 5 lpm** at 3 bar.
- Hygiene control lever L. 215mm requires no manual contact.
- PEX flexibles F3/8".
- Reinforced fixing via 2 stainless steel rods.



2870T3



To replace a removable spout with a BIOFIL spout:

- 1 Either pull the disposable spout or turn the stainless steel spout through 90° clockwise and then pull it towards you to remove it.
- 2 Insert the BIOFIL spout and turn it through 90° anti-clockwise.

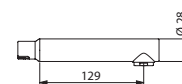
Mixer for sinks and troughs with high, BIOCLIP swivel spout	
Spout H. 160mm	
Stainless steel spout	2870T1
Disposable spout	2871T1
Spout H. 300mm	
Stainless steel spout	2870T3
Disposable spout	2871T3
Options: BIOFIL filter spouts (see <i>opposite</i>), wastes (see <i>page 91</i>), copper tails (see <i>page 93</i>)	

Related products

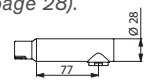


BIOCLIP stainless steel spouts

- **Removable spout** for cleaning/disinfection or autoclaving.
- Hygienic flow straightener, suitable for fitting a terminal filter (see *BIOFIL cartridges see page 28*).



20002



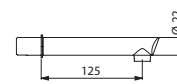
20003

2 removable stainless steel spouts Ø 28mm	
L. 129mm	20002
L. 77mm	20003



BIOCLIP disposable spouts

- **Removable, disposable spout** made from recyclable Hostaform® with star-shaped flow straightener.



20015

15 removable disposable spouts Ø 22mm	
L. 125mm	20015



BIOCLIP BIOFIL spouts

- **Removable spout with integrated anti-bacterial filter.**
- Single use, sterilising grade 0.1µm absolute-rated.
- Compatible with and resistant to chemical and thermal shocks in the water system (for more information see *page 27*).



20040.10P/30040.10P

10 filter spouts L. 138mm, Ø 22mm	
Sterile, 62 days	20040.10P
Non-sterile, 62 days	30040.10P



- **BIOSAFE** infection control: body and spout with smooth interiors
- **Anti-scalding safety**: maximum temperature limiter
- **Comfort**: optimised drop height and spout length for hand washing

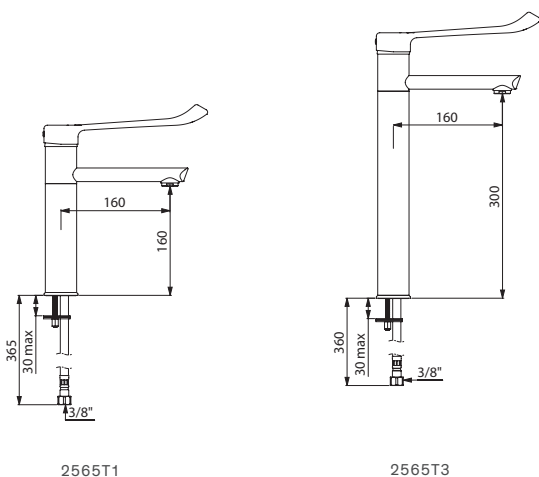
Mixer for sinks/troughs, fixed spout H. 160 - 300

Mechanical mixer, smooth interior



- **High fixed spout** with hygienic flow straightener suitable for fitting a **BIOFIL terminal filter** (see page 28).
- Ø 40mm ceramic cartridge.
- Pre-set maximum **temperature limiter**.
- **Body and spout with smooth interior** (reduces bacterial development).
- **Flow rate limited to 9 lpm** at 3 bar.
- Chrome-plated body, base and spout.
- Hygiene control lever L. 215mm requires no manual contact.
- PEX flexibles F $\frac{3}{8}$ ".
- Reinforced fixing by 2 stainless steel rods.

Model also available with pressure-balancing cartridge (see page 69)



2565T1

2565T3

Mixer for sinks or troughs with high fixed spout	
Spout H. 160mm L. 160mm	2565T1
Spout H. 300mm L. 160mm	2565T3

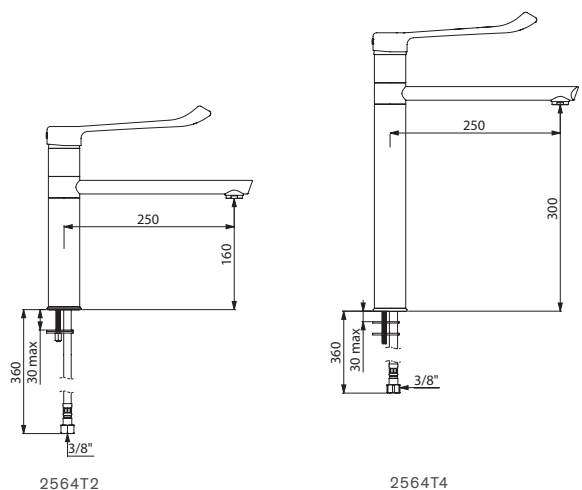
Options: BIOFIL cartridge filters (see page 28)
Wastes (see page 91)

Mixer for sinks/troughs, swivel spout H. 160 - 300

Mechanical mixer, smooth interior



- **High swivelling spout** with hygienic flow straightener suitable for fitting a **BIOFIL terminal filter** (see page 28).
- Ø 40mm ceramic cartridge.
- Pre-set maximum **temperature limiter**.
- **Body and spout with smooth interior** (reduces bacterial development).
- **Flow rate limited to 9 lpm** at 3 bar.
- Chrome-plated body, base and spout.
- Hygiene control lever L. 215mm requires no manual contact.
- PEX flexibles F $\frac{3}{8}$ ".
- Reinforced fixing by 2 stainless steel rods



2564T2

2564T4

Mixer for sinks or troughs with high swivelling spout	
Spout H. 160mm L. 160mm	2564T1
Spout H. 160mm L. 250mm	2564T2
Spout H. 300mm L. 160mm	2564T3
Spout H. 300mm L. 250mm	2564T4

Options: BIOFIL cartridge filters (see page 28)
Wastes (see page 91)



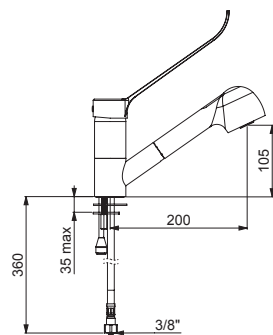
- **BIOSAFE** infection control: transparent flexible hose allows visual checks to ensure that the interior is not contaminated with biofilm; flexible hose has a smooth interior and low water volume (except ref. 2597)
- **Comfort**: retracting hand spray with 2 jet options: flow straightener/rain effect; swivelling spout
- **Ergonomic**: control levers are easy to grip

Sink/trough mixer with retracting hand spray H. 105mm L. 200mm



- Swivelling spout **H. 105mm L. 200mm**.
- Retracting hand spray with 2 jet options: flow straightener/rain effect.
- Ø 40mm ceramic cartridge.
- Pre-set maximum **temperature limiter**.
- **Body with smooth interior**.
- **Flow rate set at 12 lpm** at 3 bar.
- Mixed water brass outlet L. 105mm.
- **BIOSAFE flexible shower hose reduces bacterial proliferation**:
 - transparent polyurethane: allows visual checks to ensure that the interior is not contaminated with biofilm.
 - smooth interior and exterior (reduces bacterial development).
 - low water volume: interior Ø 6mm.
- PEX flexibles F $\frac{3}{8}$ ".
- Reinforced fixing via 2 stainless steel rods.

Models also available with pressure-balancing cartridge (see page 70)



2211L

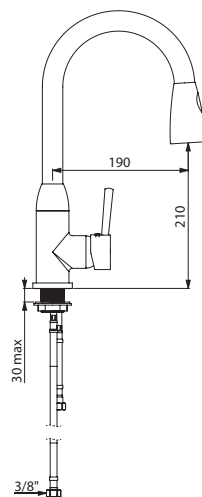
Mixer with retracting hand spray H.105 L.200	
With solid control lever	2211
With Hygiene lever L.175	2211L

Options: wastes (see page 91), copper tails (see page 93)

Sink/trough mixer with retracting hand spray H. 210mm L. 190mm



- Swivelling swan neck spout **H. 210mm L. 190mm**.
- Retracting hand spray with 2 jet options: flow straightener/rain effect.
- Ø 40mm ceramic cartridge.
- Pre-set maximum **temperature limiter**.
- **Flow rate 9 lpm** at 3 bar.
- Slimline control lever.
- Mixed water brass outlet L. 105mm.
- Hand spray with Nylon flexible hose with non-return valve.
- PEX flexibles F $\frac{3}{8}$ " with non-return valves.
- Reinforced fixing via 2 stainless steel rods.



2597

Mixer with retracting hand spray H.210 L.190	2597
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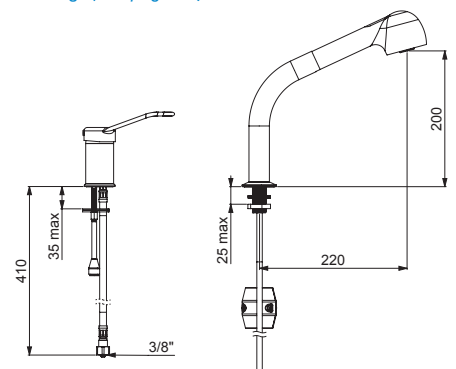
Options: wastes (see page 91), flexible hose for hand sprays (see page 151), copper tails (see page 93)

Sink/trough mixer set, retracting hand spray H. 200mm L. 220mm



- Swivelling column **H. 200mm L. 220mm**.
- Retracting hand spray with 2 jet options: flow straightener/rain effect.
- Ø 35mm ceramic cartridge.
- Pre-set maximum **temperature limiter**.
- **Mixer body and column with smooth interiors**.
- **Flow rate 12 lpm** at 3 bar.
- Sculptured control lever.
- Mixed water brass outlet L. 105mm.
- **BIOSAFE flexible shower hose reduces bacterial proliferation**:
 - transparent polyurethane: allows visual checks to ensure that the interior is not contaminated with biofilm.
 - smooth interior and exterior (reduces bacterial development).
 - low water volume: interior Ø 6mm.
- PEX flexibles F $\frac{3}{8}$ ".
- Reinforced fixing via 2 stainless steel rods.

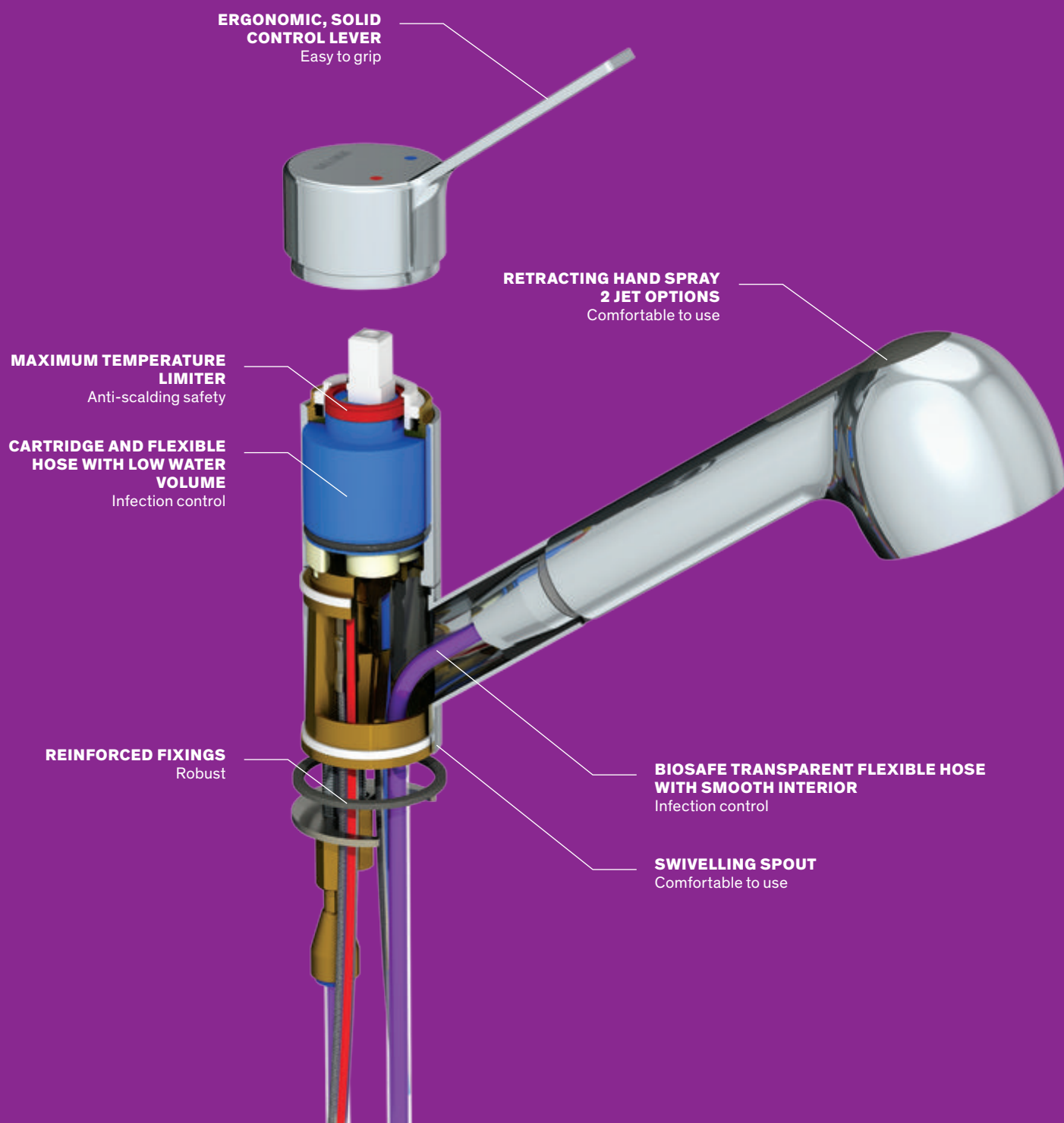
Models also available with pressure-balancing cartridge (see page 70)



2599

Controls with retracting hand spray H.200 L.220	
Mixer and column	2599
Mixer only	2542
Column only	1316

Options: wastes (see page 91), copper tails (see page 93)





- **BIOSAFE** infection control: body and/or spout with smooth interiors, reduces bacterial development
- **Anti-scalding safety**: maximum temperature limiter
- **Ergonomic**: sculptured or Hygiene control levers are easy to grip

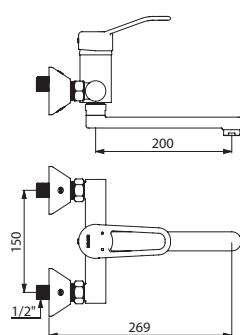
Wall-mounted Securitouch basin/sink mixer

Mechanical mixer with thermal insulation, smooth interior

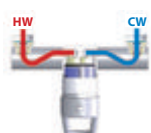


- **Flat, swivelling under spout L. 200mm** with hygienic flow straightener suitable for fitting a BIOFIL terminal filter (see page 28).
- **Securitouch thermal insulation prevents burns.**
- Ø 40mm ceramic cartridge.
- Pre-set maximum **temperature limiter**.
- **Body and spout with smooth interiors and low water volume** (reduces bacterial development).
- **Flow rate 5 lpm** at 3 bar.
- Supplied with 2 offset wall connectors M $\frac{1}{2}$ " M $\frac{3}{4}$ " (see page 92).

Model also available with pressure-balancing cartridge (see page 71)



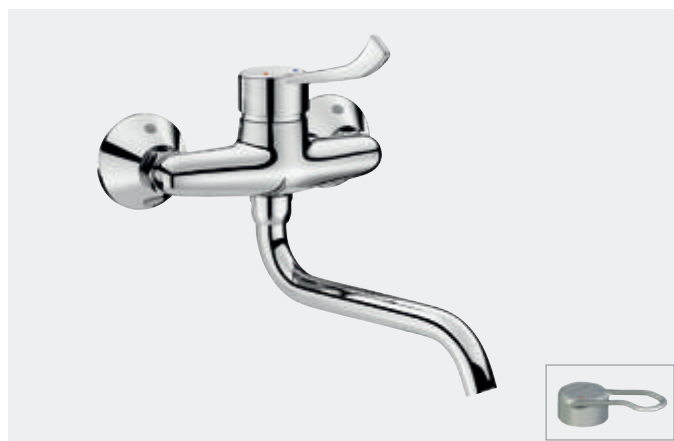
2446



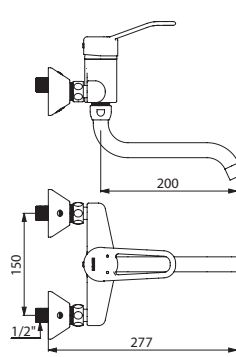
Low water volume
+ Smooth interior
+ Thermal insulation

Wall-mounted sink mixer

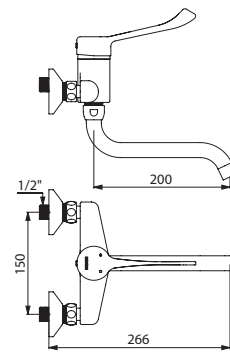
Mechanical mixer, spout with smooth interior



- **Swivelling, tubular under spout L. 200mm**, Ø 22mm with brass, star-shaped flow straightener.
- Ø 40mm ceramic cartridge.
- Pre-set maximum **temperature limiter**.
- **Spout with smooth interior** (reduces bacterial development).
- **Flow rate 26 lpm** at 3 bar, can be adjusted via the stopcock in the STOP/PURGE connectors (see below).
- Supplied with 2 offset wall connectors M $\frac{1}{2}$ " M $\frac{3}{4}$ " (see page 92).



2519



2519LS

Wall-mounted Securitouch basin/sink mixer

Sculptured control lever

Offset STOP/PURGE connectors	2446
Offset standard connectors	2446S

Hygiene control lever L. 150mm

Offset STOP/PURGE connectors	2446L
Offset standard connectors	2446LS

Options: BIOFIL cartridge filters (see page 28)
Wastes (see page 91)

Wall-mounted sink mixer

Sculptured control lever

Offset STOP/PURGE connectors	2519
Offset standard connectors	2519S

Hygiene control lever L. 150mm

Offset STOP/PURGE connectors	2519L
Offset standard connectors	2519LS

Option: Wastes (see page 91)



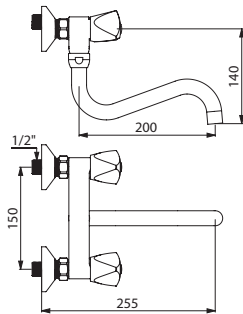
- **BIOSAFE** infection control: spout with smooth interior, reduces bacterial development

Wall-mounted sink mixer

Mixer with ceramic valve heads, spout with smooth interior



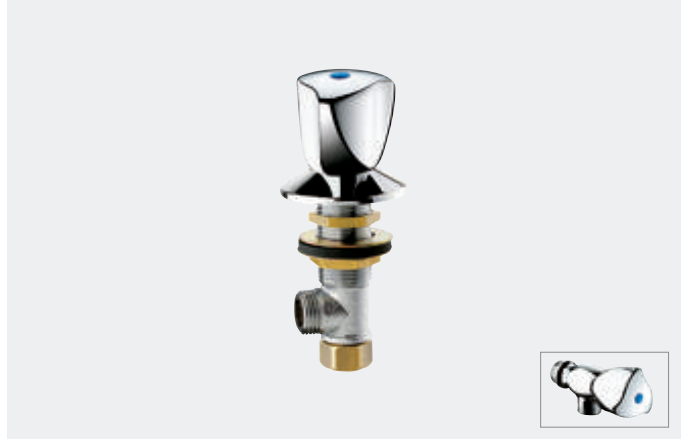
- **Swivelling, tubular under spout L. 200mm** Ø 22mm with brass, star-shaped flow straightener.
- **Spout with smooth interior** (reduces bacterial development).
- Chrome-plated metallic controls.
- Ceramic valve heads.
- Supplied with 2 offset wall connectors M $\frac{1}{2}$ " M $\frac{3}{4}$ " (see page 92).



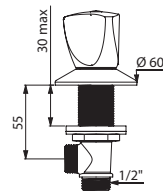
5445T2S

Wall or deck-mounted valve

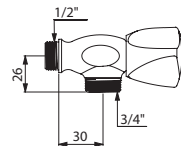
Control with valve head



- Chrome-plated metal control with valve head.
- Supplied with red and blue identification markers.
- Two models available:
 - Vertical inlet M $\frac{1}{2}$ ", horizontal outlet M $\frac{1}{2}$ " (ref. D273015).
 - Horizontal inlet M $\frac{1}{2}$ ", vertical outlet M $\frac{3}{4}$ " with integrated non-return valve providing backflow protection (ref. D276020).



D273015



D276020

Wall-mounted sink mixer

Spout L. 200mm

5445T2S

Options: Wastes (see page 91), alternative connectors available (see pages 92 - 93)

Control with valve head

Deck-mounted control

D273015

Wall-mounted control

D276020



Additional fittings for basins and sinks

THERMOSTATIC MIXING VALVES 90



WASTES AND TRAPS 91



CONNECTORS 92



SOAP DISPENSERS 94



SPOUT OUTLETS 97





- **Anti-scalding safety**
- **Comfort:** regulates temperature variations for a stable temperature at the point-of-use
- **Installation:** upstream of taps and valves

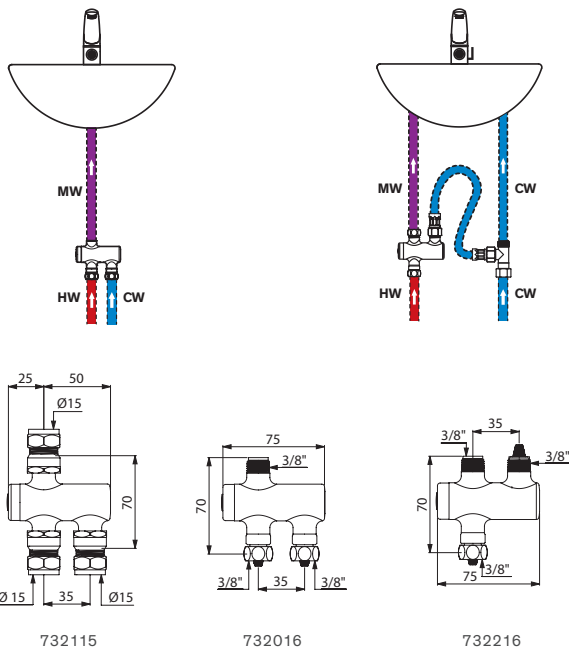
PREMIX NANO

Thermostatic mixing valve with mixed water 34 - 60°C



PREMIX NANO thermostatic mixing valve for mixed water distribution:

- **For 1 - 2 taps or 1 shower.**
- **Anti-scalding safety:** immediate shut-off if hot or cold water supply fails.
- Temperature pre-set at 38°C, can be adjusted by the installer 34 - 60°C.
- Brass body.
- **Filters and non-return valves.**
- Minimum flow rate to operate: 3 lpm.
- **Thermal shocks are possible.**



PREMIX NANO (KV 7 lpm)

Nickel-plated body M $\frac{1}{2}$ ", 15mm	732115
Polished chrome body M $\frac{1}{2}$ ", 15mm	732116
Nickel-plated body, inlets F $\frac{3}{8}$ " and outlet M $\frac{3}{8}$ "	732012
Polished chrome body, inlets F $\frac{3}{8}$ " and outlet M $\frac{3}{8}$ "	732016
Polished chrome body, HW inlet F $\frac{3}{8}$ ", CW inlet M $\frac{3}{8}$ ", MW outlet M $\frac{3}{8}$ "	732216
Connection kit $\frac{3}{8}$ " for 732216	732515

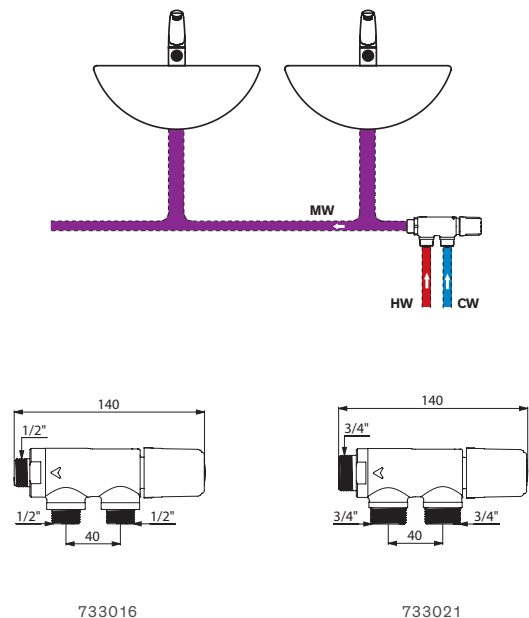
PREMIX COMPACT

Thermostatic mixing valve with mixed water 30 - 60°C



PREMIX COMPACT thermostatic mixing valve for mixed water distribution:

- **For 2 - 10 sanitary points-of-use (depending on the flow rate).**
- **Anti-scalding safety:** immediate shut-off if cold water supply fails.
- Adjustable temperature 30 - 60°C, can be blocked by the installer.
- Brass body.
- **Filters and non-return valves.**
- Minimum flow rate to operate: 5 lpm.
- **Thermal shocks are possible.**



M $\frac{1}{2}$ " for 2 - 7 taps (KV 19 lpm)

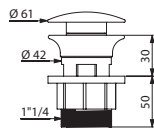
Nickel-plated body and blue control cap	733015
Chrome-plated body and control cap	733016
M$\frac{3}{4}$" for 2 for 10 taps (KV 23 lpm)	
Nickel-plated body and blue control cap	733020
Chrome-plated body and control cap	733021

ON/OFF waste

Waste with stainless steel valve



- Washbasin waste M1¼" with stainless steel valve **with free flow**.
- Recommended for all washbasins equipped with electronic or time flow mixers/taps and washbasins with an overflow.
- Open/close by pressing the top of the waste.



581000

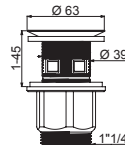
ON/OFF waste	581000
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HYGIÉNA waste

Pre-scored waste with concave grid



- Hygienic washbasin waste, M1¼".
- **Concave grid** (no water retention).
- **Free flow, with no central screw** (avoids scale deposits and reduces bacterial development).
- **Pre-scored waste**: snap-off sections can be removed for models with overflow.
- Polished chrome-plated brass grid, chrome-plated ABS body.
- **Can adapt to any material and size of washbasin or sink**.
- Can be tightened to a minimum of 1mm or maximum of 45mm.



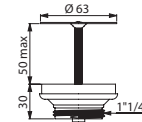
611

HYGIÉNA waste	611
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Waste with stainless steel grid



- Stainless steel grid Ø 63mm for covering holes up to Ø 54mm maximum.
- Outlet M1¼".
- Central screw.



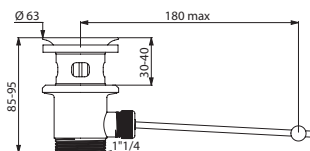
580000

Waste with stainless steel grid	580000
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Waste with valve



- Outflow M1¼".
- Chrome-plated brass.



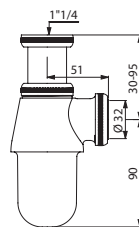
620

Brass waste with valve	620
------------------------	-----

Trap with horizontal outlet



- Inlet F1¼".
- Horizontal outlet Ø 32mm with nut.
- Water level 50mm.
- Chrome-plated brass.



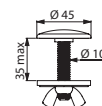
517000

Trap with horizontal outlet	517000
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Tap hole cover



- Ø 45mm tap hole cover for holes up to Ø 32mm maximum.
- Chrome-plated brass.



596000

Tap hole cover	596000
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STOP/PURGE connectors

Wall-mounted connectors M1½" M¾"



- Chrome-plated connectors Ø 70mm, for wall-mounted mixers.
- Supplied in packs of 2.
- **Ideal for hospitals.**

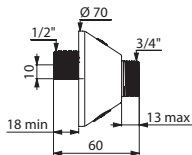
Connectors include:

Stopcocks:

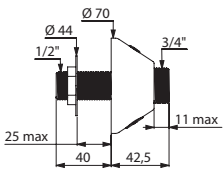
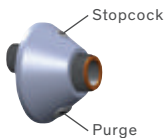
- Shut off the water supply so that the mixer can be easily removed for cleaning, disinfection or maintenance.
- Allow automatic anti-scalding safety to be checked on SECURITHERM thermostatic and EP pressure-balancing mixers.

Purge system:

Allows non-return valves to be checked on the respective mixer.



855027.2P



847327.2P

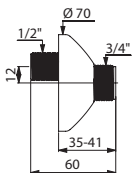
STOP/PURGE connectors	
Offset, L. 60mm	855027.2P
In-line, L. 62.5mm	847327.2P

STOP/PURGE connectors

Wall-mounted connectors M1½" M¾"

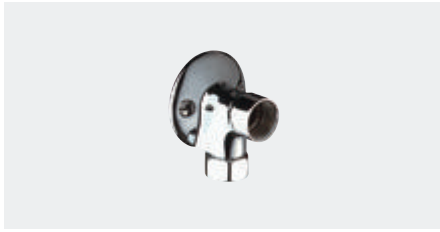


- Chrome-plated connectors Ø 70mm, L. 60mm for wall-mounted mixers.
- Solid brass.
- Supplied in packs of 2.

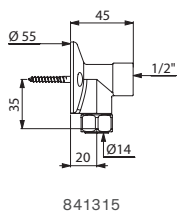


856027.2P

Offset standard connectors	
	856027.2P
Alternative models available on request	

Reinforced exposed connectorFor M $\frac{1}{2}$ " stopcocks

- Reinforced chrome-plated brass exposed connector.
- Ø 14mm stud nut.
- MF $\frac{1}{2}$ ".
- Fixed by 2 screws (supplied).



841315

Reinforced exposed connector	841315
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Connectors with non-return valves

Chrome-plated brass connectors



- Connectors with integral filter to prevent backflow of contaminated water into the system.
- Prevent cross flow of cold and hot water.
- Supplied in packs of 2.



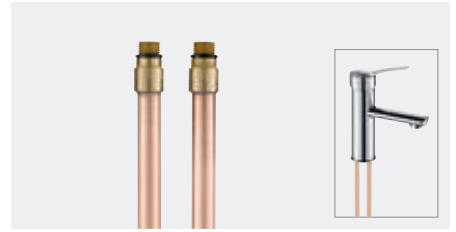
C291AH75



C151AH75

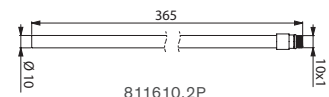
Connectors with non-return valvesFor flexibles FM $\frac{1}{2}$ "**C291AH75**For flexibles FM $\frac{3}{8}$ "**C151AH75****Copper tails**

To supply mixers and taps

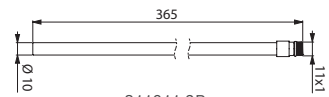


- Soft-tempered copper tails.
- Can be installed instead of PEX flexibles.
- Better conductors than flexibles.
- Will withstand thermal shocks.
- Supplied in packs of 2.

Pro tip: Don't forget to include non-return valves on the copper tubes if the PEX flexibles to be replaced have integral non-return valves.
Call our Technical team for further information.



811610.2P



811611.2P

Copper tails

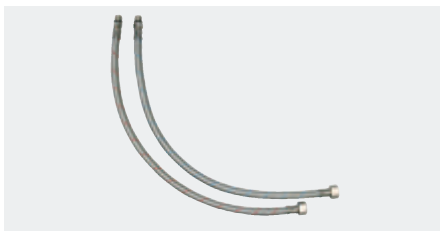
M10 × 1 L.365

811610.2P

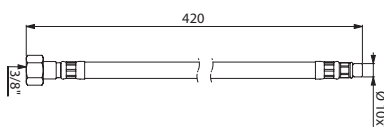
M11 × 1 L.365

811611.2P**PEX flexible hoses**

To supply mixers and taps



- PEX core, interior Ø 8mm, braided stainless steel sheath.
- Withstand thermal shocks up to 90°C max. (recommended 65°C) and chlorine shocks.
- Maximum pressure: 10 bar.
- Supplied in packs of 2.



FLEXPEX2

PEX flexible hose connectors, F $\frac{3}{8}$ "

M10 × 1 L. 420mm

FLEXPEX2

M10 × 1 L. 525mm

FLEXPEX3

M10 × 1 L. 660mm

FLEXPEX4

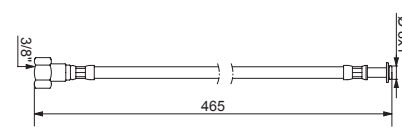
M11 × 1 L. 370mm

FLEXPEX5**PEX flexibles with rotating unions**

To supply mixer 2620



- PEX core, interior Ø 6mm, braided stainless steel sheath.
- **Rotating unions facilitate installation** (non-twist).
- Withstand thermal shocks up to 90°C max. (recommended 65°C) and chlorine shocks.
- Maximum pressure: 10 bar.
- Can be removed.
- Supplied in packs of 2.

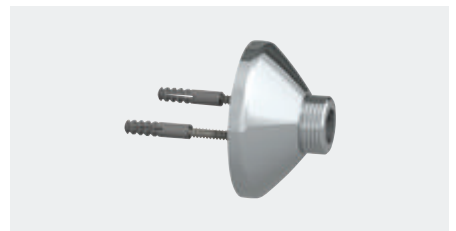


FLEXPEX6

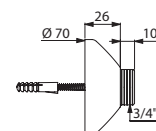
PEX flexibles, F $\frac{3}{8}$ "
with rotating unions

FLEXPEX6**Fast-fix connectors**

For 15mm connection



- Wall-mounted in-line connectors.
- Chrome-plated connectors Ø 70mm, L. 36mm for wall-mounted mixers.
- M $\frac{3}{4}$ ".
- Supplied in packs of 2.



845527.2P

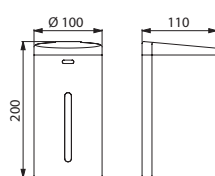
Fast-fix connectors**845527.2P**

Electronic soap dispenser

Bright polished stainless steel



- **No manual contact:** hands are automatically detected by infrared cell (detection distance can be adjusted).
- **Zero waste pump dispenser:** dispenses 0.8ml (can be adjusted up to 7 doses per activation).
- Power supply: 6 AA -1.5V (DC9V) batteries included, integrated in the soap dispenser body.
- With lock.
- Window allows soap level to be checked.
- Low battery indicator light.
- Bright polished 304 stainless steel body and fixing plate.
- Capacity: 0.65 litres.
- For vegetable-based liquid soap with a maximum viscosity of 3,000 mPa.s.
- CE marked.



510587

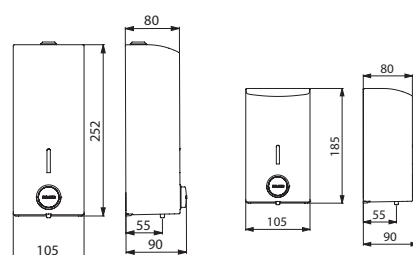
Electronic soap dispenser	510587
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Liquid soap dispenser

With soft-touch operation



- **Vandal resistant model with lock and standard DELABIE key.**
- **One-piece hinged cover** for easy maintenance and better hygiene.
- **Push-button with soft-touch operation.**
- **Anti-blocking:** single dose per press even when the button is pressed for long periods.
- No waste, non-drip (waterproof) pump-action dispenser.
- Reservoir prevents long-term stagnation of soap.
- Window allows soap level to be checked.
- Metal thickness: 1mm.
- 0.5 litre model dimensions: 90 × 105 × 185mm.
- 1 litre model dimensions: 90 × 105 × 252mm.
- For vegetable-based liquid soap with a maximum viscosity of 3,000 mPa.s.



510580

510583

Liquid soap dispenser - 1 litre	
Bright 304 stainless steel	510580
Satin 304 stainless steel	510582
White epoxy coated	510581

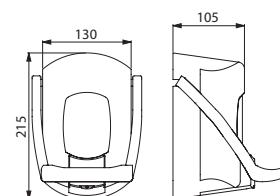
Liquid soap dispenser - 0.5 litre	
Bright 304 stainless steel	510583
Satin 304 stainless steel	510586
White epoxy coated	510584

Hypereco liquid soap dispenser

ABS



- White ABS.
- Push-button with non-drip system.
- With lock.
- Level control.
- **Capacity: 0.9 litres.**
- Ref. 374001 dimensions: 95 × 130 × 235mm.
- Ref. 6712 dimensions: 105 × 130 × 215mm.



6712

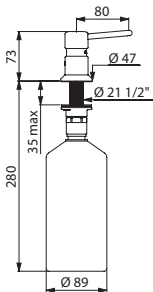
Hypereco liquid soap dispenser	
White ABS	374001
With elbow control	6712

Liquid soap dispenser

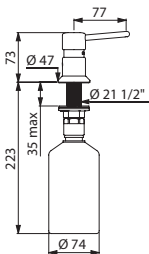
Straight spout - Deck-mounted



- Model for installing on washbasins.
- **Vandal-resistant model.**
- Chrome-plated brass body and push-button.
- Non-drip system (waterproof).
- **Mechanism can be locked via a grub screw.**
- Top fill (by unscrewing the push-button) or from the lower part (by unscrewing the bottle).
- Models for installing a reservoir beneath the washbasin (references 729008 and 729508) or for remote tank (reference 729108).



729008



729508

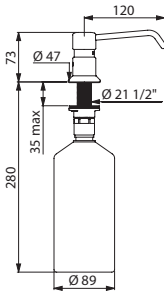
Soap dispenser with straight spout	
With 1 litre bottle	729008
With 0.5 litre bottle	729508
With Rilsan pipe 1.20m	729108

Liquid soap dispenser

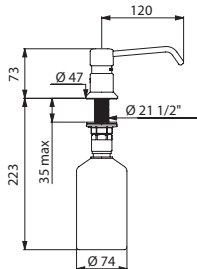
Curved spout - Deck-mounted



- Model for installing on washbasins.
- **Vandal-resistant model.**
- Chrome-plated brass body and push-button.
- Non-drip system (waterproof).
- **Mechanism can be locked via a grub screw.**
- Top fill (by unscrewing the push-button) or from the lower part (by unscrewing the bottle).
- Models for installing a reservoir beneath the washbasin (references 729012 and 729512) or for remote tank (reference 729112).



729012



729512

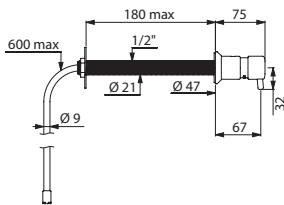
Soap dispenser with curved spout	
With 1 litre bottle	729012
With 0.5 litre bottle	729512
With Rilsan pipe 1.20m	729112

Liquid soap dispenser

For cross wall installation



- Model for cross wall installation, for walls up to 180mm.
- For remote tanks (tank not supplied).
- Chrome-plated brass push-button, with flexible pipe 6/8 litres, L. 1.20m.
- Non-drip system (waterproof)
- **Mechanism can be locked via a grub screw.**



729150

Cross wall soap dispenser	729150
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BASIN/SINK
FITTINGS



SPOUT OUTLETS FOR MIXERS AND TAPS

Spout outlets are susceptible to bacterial growth (*Pseudomonas aeruginosa*, *Legionella* spp., etc.) since the presence of air and water encourages the proliferation of bacteria. There are different types of spout outlets available more or less suited to the issues faced by hospitals, particularly the fight against bacterial proliferation.

Conventional aerators

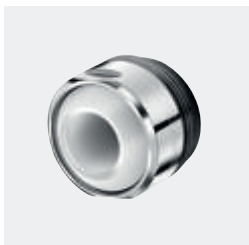
Aerators in tap spouts are strongly discouraged in healthcare facilities, particularly in the area of *Legionella* prevention. In effect, aerators create an air/water mix which increases the risk of aerosol formation. Moreover, the fine grids in an aerator retain impurities which are conducive to bacterial growth. Hence, aerators are not recommended in hospitals, retirement homes, etc.



Scale build-up on aerator causes splashing



Flow from a BIOSAFE outlet: good flow, with no splashing



BIOSAFE spout outlet

Flow straightener

To reduce these risks, flow straighteners are highly recommended for spout outlets. All DELABIE mixers and taps are supplied with flow straighteners that are specially developed for healthcare facilities. They do not have a mesh and they do not aspirate air. In comparison with traditional aerators, DELABIE flow straighteners are made from a material that limits scale build-up. However, even though its development can be slowed, scale build-up is inevitable.

In healthcare facilities, the maintenance staff remove flow straighteners regularly (sometimes very frequently) to clean/disinfect them as part of the cleaning protocols put in place by infection control teams in hospitals.

To minimise maintenance, DELABIE recommends a revolutionary device to replace the flow straightener - the BIOSAFE outlet.

BIOSAFE hygienic outlet

Made from Hostaform®, its smooth internal surface provides nowhere for impurities or scale to adhere (no grid, partitions or star-shaped structure) reducing the emergence and spread of bacteria and germs in damp conditions. It can only be installed on a mixer or tap that already has a restricted flow rate to ensure a good flow, with no splashing.

Certain DELABIE mixers and taps already have the BIOSAFE outlet fitted as standard. The BIOSAFE outlet is also available as an option (see opposite).

BIOSAFE hygienic outlet

NEW



- **Free flow outlet** with no grid or partitions in contact with the water.
- Water cannot stagnate in the internal part.
- Made from Hostaform® (scale-resistant material).
- Chrome-plated brass collar.
- Supplied individually.

The BIOSAFE outlet can only be installed on a mixer or tap with a restricted flow rate to ensure a good flow with no splashing.



923024



923022

BIOSAFE outlet 9 lpm available 2nd half 2017, please contact sales office to check availability.

BIOSAFE hygienic outlet	
For basin mixers/taps (5 lpm)	
M24/100	923024
F22/100	923022
For sink mixers/taps (9 lpm)	
M24/100	924024
F22/100	924022

Hygienic flow straightener



- Star-shaped with no grid: reduces bacterial development.
- Chrome-plated brass collar.
- Supplied in packs of 2 or 50 pieces.



921024.2P



921022.2P

Hygienic flow straightener	
M24/100 (2 per pack)	921024.2P
M24/100 (50 per pack)	921024.50P
F22/100 (2 per pack)	921022.2P
F22/100 (50 per pack)	921022.50P

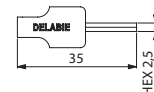
ECO flow straightener

Pre-set at 3 lpm

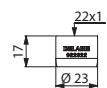


- Scale-resistant flow straightener pre-set at 3 lpm (DELABIE patented).
- **Flow rate can be adjusted from 1.5 to 6 lpm** at 3 bar (depending on the tap/mixer model) from the outside using a 2.5mm Allen key.
- Flow straightener with no grid: reduces bacterial development (no water retention or impurity deposits).
- Supplied in packs of 2.

The water savings generated by the ECO flow straightener surpass the requirements of class "Z" of the European standard EN 246.



C282025



922022.2P

ECO flow straightener	
M24/100	922024.2P
F22/100	922022.2P
2.5mm Allen key, chrome-plated	C282025



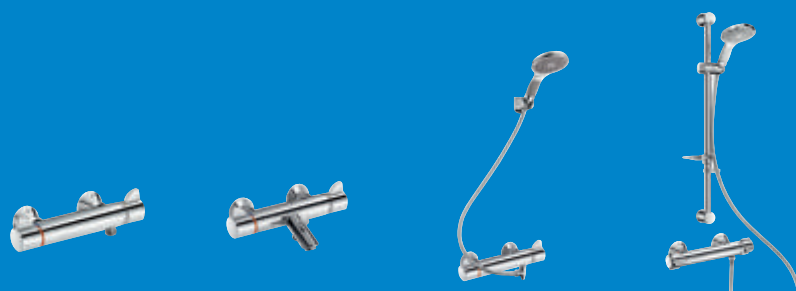
SECURITHERM

thermostatic and pressure-balancing mixers for showers and baths

SINGLE CONTROL THERMOSTATIC MIXERS AND KITS **104**



DUAL CONTROL THERMOSTATIC MIXERS AND KITS **108**



THERMOSTATIC SHOWER PANELS **118**



PRESSURE BALANCING MIXERS AND KITS **130**





SECURITHERM: OPTIMISED ANTI-SCALDING FAILSAFE

To reduce the risk of bacterial development, hot water must be circulated at high temperatures in the system while reducing the risk of scalding at the point-of-use.

Automatic anti-scalding failsafe

SECURITHERM thermostatic technology ensures immediate hot water shut-off if the cold water supply fails. If the cold water supply fails, the European standard EN 1111 allows a slight leak of hot water (0.10L/10 seconds).

With DELABIE thermostatic mixers the hot water shut-off is complete (with no trickle of water). If the hot water supply fails, DELABIE SECURITHERM mixers also shut off the cold water supply. This avoids the risk of cold showers which may result in a loss of balance or a fall.

Maximum temperature limiter

DELABIE mixers are supplied with a pre-set maximum temperature limiter. The user cannot increase the temperature above the maximum set temperature (maximum temperature depends on the model) reducing the risk of scalding.

Thermal shock safety

With SECURITHERM thermostatic mixers, it is possible to undertake thermal shocks at the temperature of the hot water in the system:

- On TMV3 approved dual control models unscrew the temperature adjustment cap using an Allen key and turn the valve spindle clockwise all the way to the right to override the temperature setting.
- On standard dual control models simply press the little red button with a pointed tool to override the maximum temperature limiter.
- Remove the control lever and the temperature limiting index ring on TMV3 approved single lever control models.

Securitouch technology

In general, bodies of shower mixers are made from chrome-plated brass. Since metal is an effective heat conductor, it is very easy for people to burn themselves even when only brushing against the surface of the mixer.

Specifically designed for patients, people with reduced mobility, the elderly and children, Securitouch technology provides increased safety for superior comfort.

The whole mechanism on most SECURITHERM models is insulated, preventing any risk of burns when touching the mixer.

SINGLE CONTROL OPEN AND CLOSING

BIOSAFE: limiting bacterial growth

The new generation of DELABIE thermostatic mixers is single lever control: there is only one mechanism instead of two for the dual control models.

As a result, fewer components are in contact with the water and there is less standing water in the mixer.

Improved ergonomics and functionality

The same lateral movement opens the water flow and adjusts the temperature.

Opens and closes with cold water

SECURITHERM single control mixers open and close with cold water for increased anti-scalding failsafe.

COMFORT AND ERGONOMICS

Temperature stability

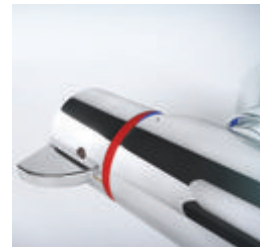
SECURITHERM thermostatic mixers ensure stable temperatures regardless of pressure and flow rate variations in the system. They respond immediately to any changes.

Ergonomic controls

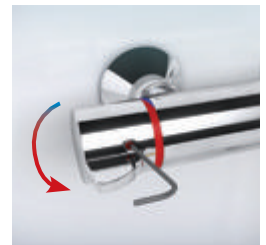
DELABIE SECURITHERM thermostatic mixers are fitted with ergonomic control knobs or a Hygiene control lever, ensuring a smooth operation suitable for hospital patients, the elderly or disabled people.

Intuitive identification

Clear visual identification for Hot and Cold water on a Red/Blue coloured index ring.



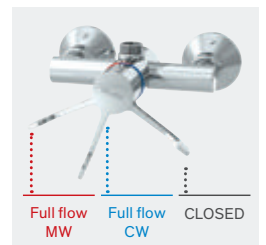
Temperature limiter



Thermal shock safety



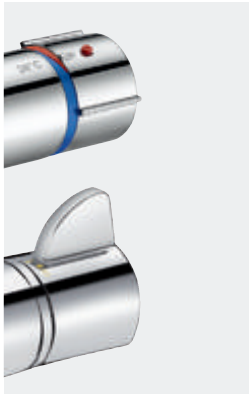
Securitouch technology: cool touch



Single control mixer



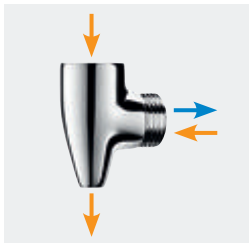
Find out more about our range of thermostatic mixers with retracting hand sprays on page 57.



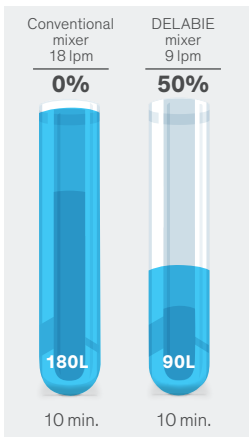
Ergonomic controls



Hygiene control lever



Auto-draining device



Water savings per use

BIOSAFE: INFECTION CONTROL

No non-return valves

The single control thermostatic mixers and the new generation of dual control mixers H9769 **do not need any non-return valves on the inlets**, with no risk of cross flow between the Hot and Cold Water. All this greatly reduces the risk of bacterial development.

Low volume of standing water in the body

The single control thermostatic mixers and the dual control thermostatic mixer H9769 have been specifically designed to reduce the volume of standing water in the body. As a result, the risk of bacterial development is reduced.

Body with smooth interior

All the internal parts of DELABIE EP shower mixer bodies are completely smooth, reducing biofilm attachment and making it easier to treat.

A study in June 2010 by the BioPI laboratory and the Department for Biological Studies at Jules Verne University in Amiens, France showed that under constant conditions, **mixers with smooth interiors have *Pseudomonas aeruginosa* contamination levels 14 times lower than those mixers with rough bodies.**

AUTO-DRAINING DEVICE

DELABIE recommends installing its auto-draining device (ref. 880) on all shower and shower-bath mixers. This device allows the shower head and flexible hose to drain automatically, essential in the fight against bacterial proliferation.

To be fully effective, DELABIE recommends connecting the auto-draining device to a short flexible shower hose (ref. 834T3 or 836T3, page 150).

Auto-draining shower kits are also available. They include a mixer fitted with an auto-draining device, a short flexible hose 0.85m long with a shower head fixed on a tilting wall support. This latter ensures that the flexible hose is perfectly taut, avoiding standing water in the flexible hose loop.

50% WATER AND ENERGY SAVINGS

Flow rate regulated at 9 lpm

SECURITHERM thermostatic shower mixers can achieve almost 50% water savings compared to other mixers (15 - 20 lpm). The thermostatic mixers are fitted with a flow rate regulator set at 9 lpm.

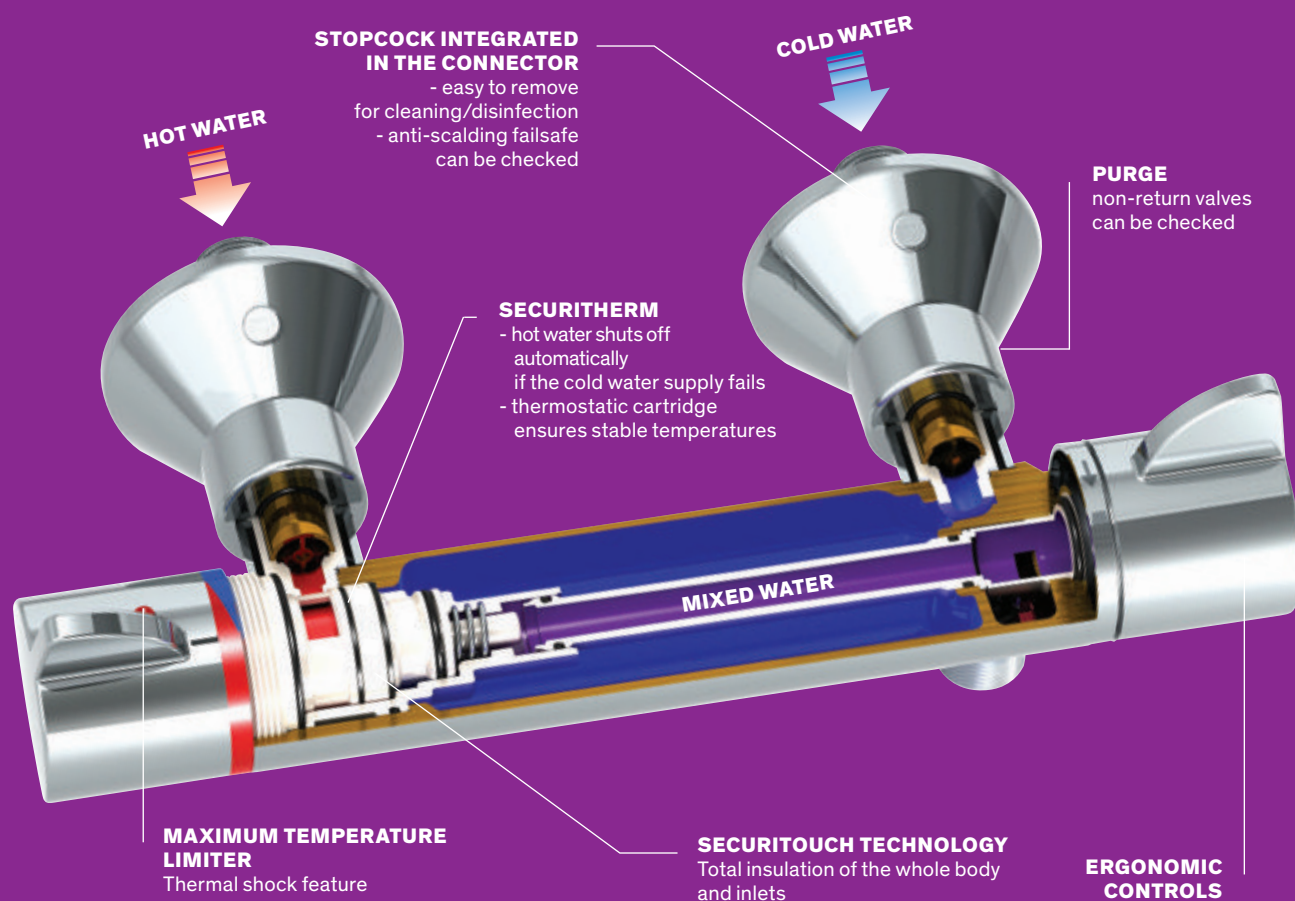
The water savings generated also allow energy savings, and less equipment is required: lower capacity pipework and water heating equipment can be installed. Lower water volumes in the installation mean a lower risk of bacterial proliferation.

AND ALSO...

Robust

Chrome-plated brass body.

10-year warranty against any manufacturing defects.



DELABIE / SECURITHERM single control thermostatic mixers



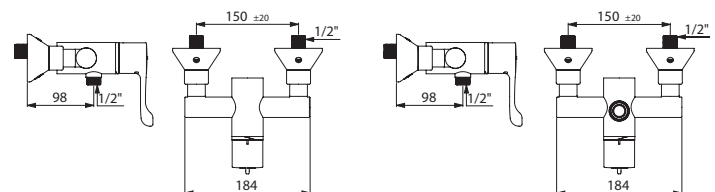
- **SECURITHERM** anti-scalding failsafe: immediate shut-off if cold water supply fails, **Securitouch** thermal insulation
- **BIOSAFE** infection control: smooth interior and low water volume
- **BIOSAFE**: fewer components in contact with the water reduces bacterial development
- **No non-return valve on the inlets**: reduced risk of bacterial proliferation and no risk of cross flow between HW and CW

SECURITHERM Securitouch shower

Single control thermostatic mixer, with no non-return valve

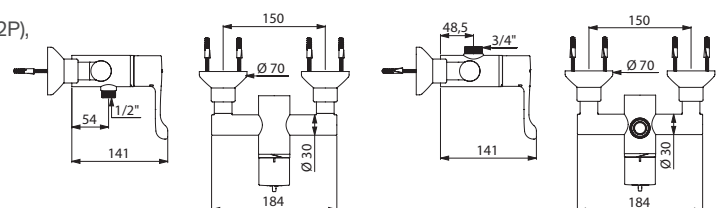


- **Single lever control with no non-return valve** (reduced bacterial proliferation).
- **Anti-scalding failsafe**: immediate shut-off if cold water supply fails.
- **Securitouch thermal insulation prevents burns.**
- **Scale-resistant thermostatic sequential cartridge.**
- Temperature control: cold water up to 39°C.
- **Temperature limiter** set at 39°C.
- Thermal shocks are possible.
- **Body with smooth interior and low water volume.**
- **Flow rate regulated at 9 lpm.**
- Hygiene control lever L. 100mm.
- Top or bottom outlet options.
- Supplied with 2 in-line STOP / PURGE connectors M $\frac{1}{2}$ " M $\frac{3}{4}$ " (ref. 847327.2P), 2 offset STOP / PURGE connectors M $\frac{1}{2}$ " M $\frac{3}{4}$ " (ref. 855027.2P) or 2 offset standard connectors M $\frac{1}{2}$ " M $\frac{3}{4}$ " (ref. 856027.2P).



H9630

H9640

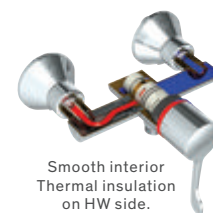


H963015

H964015

SECURITHERM Securitouch single control shower	
Bottom outlet	
Offset STOP / PURGE connectors	H9630
In-line STOP / PURGE connectors	H963015
Offset standard connectors	H9630S
Top outlet	
Offset STOP / PURGE connectors	H9640
In-line STOP / PURGE connectors	H964015
Offset standard connectors	H9640S

Options: BIOFIL shower head with integrated filter (see page 148)
 Hydrotherapy accessories (see pages 148 & 149), floor traps (see page 155)
 Other connectors available (see pages 152 & 153)



Smooth interior
 Thermal insulation
 on HW side.
No non-return valves



- **SECURITHERM** anti-scalding failsafe: immediate shut-off if cold water supply fails, **Securitouch** thermal insulation
- **BIOSAFE** infection control: smooth interior and low water volume
- **BIOSAFE**: fewer components in contact with the water reduces bacterial development
- **No non-return valve on the inlets**: reduced risk of bacterial proliferation and no risk of cross flow between HW and CW

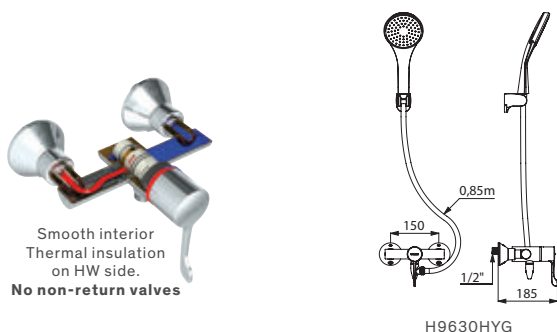
SECURITHERM auto-draining shower kit

With Securitouch single control thermostatic mixer



Shower kit with auto-draining device includes:

- **Mixer with** scale-resistant **thermostatic sequential cartridge**:
 - **Single lever control with no non-return valve** (reduced bacterial proliferation).
 - **Anti-scalding failsafe**: immediate shut-off if cold water supply fails.
 - **Securitouch thermal insulation prevents burns**.
 - Temperature control: cold water up to 39°C, **limiter** set at 39°C.
 - Thermal shocks are possible.
 - **Flow rate regulated at 9 lpm**.
 - Hygiene control lever L.100mm. M $\frac{1}{2}$ " bottom outlet.
- Shower head with flexible hose and chrome-plated wall-mounted support.
- **Auto-draining device** FM $\frac{1}{2}$ " automatically drains the flexible and shower head (see page 152).



SECURITHERM Securitouch auto-draining shower kit	
Offset STOP/PURGE connectors	H9630HYG
Offset standard connectors	H9630SHYG

Options: BIOFIL shower head with integrated filter (see page 148)
 Soap dishes (see page 147), floor traps (see page 155)
 Other connectors available (see pages 152 - 153)

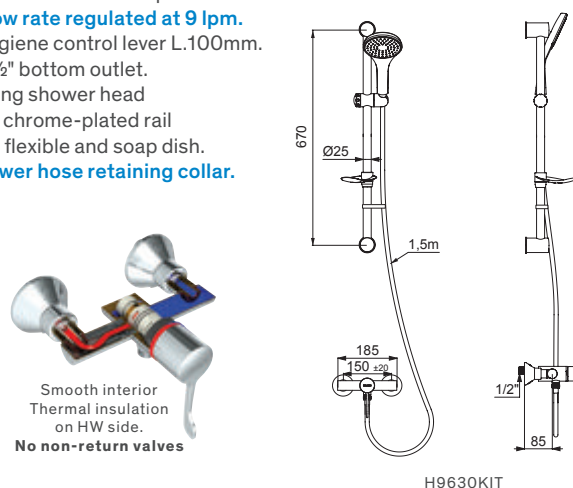
SECURITHERM shower kit

With Securitouch single control thermostatic mixer



Shower kit includes:

- **Mixer with** scale-resistant **thermostatic sequential cartridge**:
 - **Single lever control with no non-return valve** (reduced bacterial proliferation).
 - **Anti-scalding failsafe**: immediate shut-off if cold water supply fails.
 - **Securitouch thermal insulation prevents burns**.
 - Temperature control: cold water up to 39°C, **limiter** set at 39°C.
 - Thermal shocks are possible.
 - **Flow rate regulated at 9 lpm**.
 - Hygiene control lever L.100mm. M $\frac{1}{2}$ " bottom outlet.
- Sliding shower head on a chrome-plated rail with flexible and soap dish.
- **Shower hose retaining collar**.



SECURITHERM Securitouch shower kit	
Offset STOP/PURGE connectors	H9630KIT
Offset standard connectors	H9630SKIT

Options: BIOFIL shower head with integrated filter (see page 148)
 Auto-draining device (see page 152), floor traps (see page 155)
 Other connectors available (see pages 152 - 153)



- **SECURITHERM** anti-scalding failsafe: immediate shut-off if the cold water fails, **Securitouch** thermal insulation
- **BIOSAFE** infection control: mixer body with smooth interior and low water volume
- **BIOSAFE**: fewer components in contact with the water reduces bacterial development
- **No non-return valve on the inlets**: reduced risk of bacterial proliferation and no risk of cross flow between HW and CW

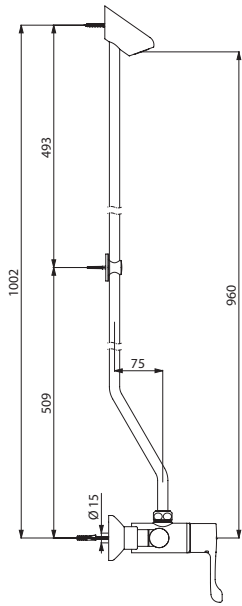
SECURITHERM Securitouch shower kit

With single control thermostatic mixer

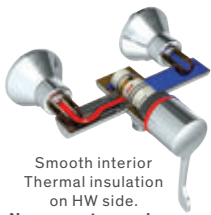


Shower kit for exposed wall-mounting:

- Fixed TONIC JET shower head:
 - Chrome-plated solid brass and tamperproof fixing.
 - **Scale-resistant nozzle with no grid**: no impurity retention. The shower head drains after use.
 - **Flow rate 6 lpm** at 3 bar.
 - Shower head with automatic flow rate regulator.
- Shower column link Ø 16mm with reinforced collar (fixing plate and screws included).
- Supplied with offset STOP / PURGE connectors (ref. 855027.2P) or 2 fast fix connectors M $\frac{3}{4}$ " to Ø 15mm (ref. 845527.2P) (see page 152).



H964115



Smooth interior
Thermal insulation
on HW side.
No non-return valves

SECURITHERM single control shower kit	
Offset STOP / PURGE connectors M $\frac{1}{2}$ " M $\frac{3}{4}$ "	H9641
With fast-fix connectors M $\frac{3}{4}$ "	H964115
Options: BIOFIL cartridge with integrated filter (see page 28) Soap dishes (see page 147), floor traps (see page 155) Other connectors available (see pages 152 & 153)	



- **SECURITHERM** anti-scalding failsafe: immediate shut-off if cold water supply fails, **Securitouch** thermal insulation
- **BIOSAFE** infection control
- **BIOSAFE**: fewer components in contact with the water reduces bacterial development
- **No non-return valve on the inlets**: reduced risk of bacterial proliferation and no risk of cross flow between HW and CW

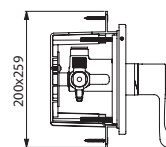
SECURITHERM recessed shower

Single control thermostatic mixer in a waterproof housing

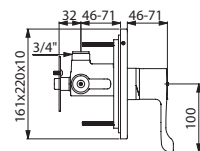


- **Waterproof recessing housing** behind a bright polished stainless steel cover plate 160 × 220mm.
- Adjustable recessing depth from 10 - 30mm.
- Mixer with scale-resistant **thermostatic sequential cartridge**:
 - **Single lever control with no non-return valve (reduced bacterial proliferation).**
 - **Anti-scalding failsafe**: immediate shut-off if cold water supply fails.
 - **Securitouch thermal insulation prevents burns.**
 - Temperature control: cold water up to 39°C.
 - **Maximum temperature limiter** set at 39°C.
 - Thermal shocks are possible.
 - **Flow rate regulated at 9 lpm** (mixer only), 6 lpm with shower head.
 - Hygiene control lever L. 100mm.
 - M $\frac{3}{4}$ " inlets with integrated filters..
- Order a wall-mounted outlet or shower head to complete (see pages 141 and 153).

Pending TMV3 approval under application BC1824



790BOX+H9632



H9632

SECURITHERM shower mixer
without shower head in a waterproof housing

790BOX
+ H9632

Option: Fixed shower head (see page 141)



- **SECURITHERM** anti-scalding failsafe: immediate shut-off if cold water supply fails, **Securitouch** thermal insulation
- **No non-return valve on the inlets**: reduced risk of bacterial proliferation and no risk of cross flow between HW and CW
- **BIOSAFE** infection control: smooth interior and low water volume
- **BIOSAFE**: fewer components in contact with the water reduces bacterial development

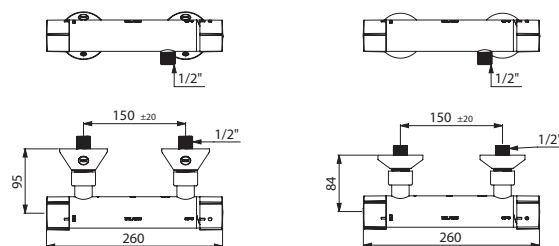
SECURITHERM Securitouch shower

Dual control thermostatic mixer, with no non-return valve

NEW



- **Dual control, with no non-return valve** (reduced bacterial proliferation).
- **Anti-scalding failsafe**: immediate shut-off if cold water supply fails.
- **Securitouch thermal insulation prevents burns**.
- Scale-resistant **thermostatic cartridge** for adjusting the temperature.
- 1/4-turn ceramic head for adjusting the flow rate.
- Temperature control: up to 41°C.
- **Double temperature limiter**:
1st limiter set at 39°C, 2nd limiter set at 41°C.
- **Thermal shocks are possible** without removing the control knob or shutting off the cold water supply (see page 101).
- **Flow rate regulated at 9 lpm**.
- Ergonomic controls.
- M1/2" shower outlet.
- M3/4" inlets with integrated filters.
- Supplied with 2 offset wall connectors M1/2" M3/4" (see page 152).



H9769

H9769S

Available 2nd half 2017. Please contact the sales office to check availability.

SECURITHERM Securitouch shower	
Offset STOP/PURGE connectors	H9769
Offset standard connectors	H9769S

Options: auto-draining device (see page 152)
Hydrotherapy accessories (see pages 148 - 149)
Other connectors available (see pages 152 - 153)



- **SECURITHERM** anti-scalding failsafe: immediate shut-off if cold water supply fails, **Securitouch** thermal insulation
- **No non-return valve on the inlets**: reduced risk of bacterial proliferation and no risk of cross flow between HW and CW
- **BIOSAFE** infection control: smooth interior and low water volume
- **BIOSAFE**: fewer components in contact with the water reduces bacterial development

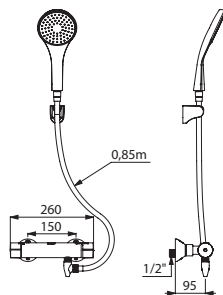
SECURITHERM auto-draining shower kit

With Securitouch dual control thermostatic mixer



Shower kit with auto-draining device includes:

- **Mixer with** scale-resistant **thermostatic cartridge**:
 - **Dual control, with no non-return valve** (reduced bacterial proliferation).
 - **Anti-scalding failsafe**: immediate shut-off if cold water supply fails
 - **Securitouch thermal insulation prevents burns**.
 - Temperature control: up to 41°C.
 - **Double temperature limiter**: 1st limiter set at 39°C, 2nd limiter set at 41°C. Thermal shocks are possible.
 - **Flow rate regulated at 9 lpm.**
 - Ergonomic control knobs.
 - M $\frac{1}{2}$ " shower outlet.
 - M $\frac{3}{4}$ " inlets with integrated filters.
- Shower head with flexible hose and chrome-plated, tilting wall support.
- **Auto-draining device** FM $\frac{1}{2}$ " automatically drains the flexible hose and the shower head (see page 152).



H9769HYG

Available 2nd half 2017. Please contact the sales office to check availability.

SECURITHERM Securitouch auto-draining shower kit	
Offset STOP/PURGE connectors	H9769HYG
Offset standard connectors	H9769SHYG

Options: BIOFIL shower head with integrated filter (see page 148)
 Soap dishes (see page 147), floor traps (see page 155)
 Other connectors available (see pages 152 - 153)

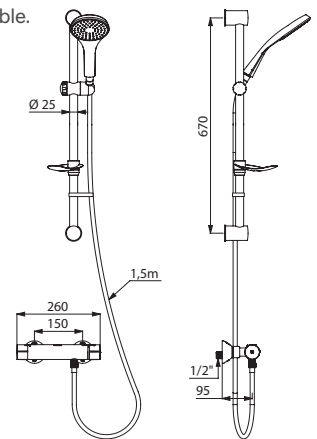
SECURITHERM shower kit

With Securitouch dual control thermostatic mixer



Shower kit includes:

- **Mixer with** scale-resistant **thermostatic cartridge**:
 - **Dual control, with no non-return valve** (reduced bacterial proliferation).
 - **Anti-scalding failsafe**: immediate shut-off if cold water supply fails
 - **Securitouch thermal insulation prevents burns**.
 - Temperature control: up to 41°C.
 - **Double temperature limiter**: 1st limiter set at 39°C, 2nd limiter set at 41°C. Thermal shocks are possible.
 - **Flow rate regulated at 9 lpm.**
 - Ergonomic control knobs.
 - M $\frac{1}{2}$ " shower outlet.
 - M $\frac{3}{4}$ " inlets with integrated filters.
- Sliding shower head on a chrome-plated rail with flexible and soap dish.
- **Shower hose retaining collar.**



H9769KIT

Available 2nd half 2017. Please contact the sales office to check availability.

SECURITHERM Securitouch shower kit	
Offset STOP/PURGE connectors	H9769KIT
Offset standard connectors	H9769SKIT

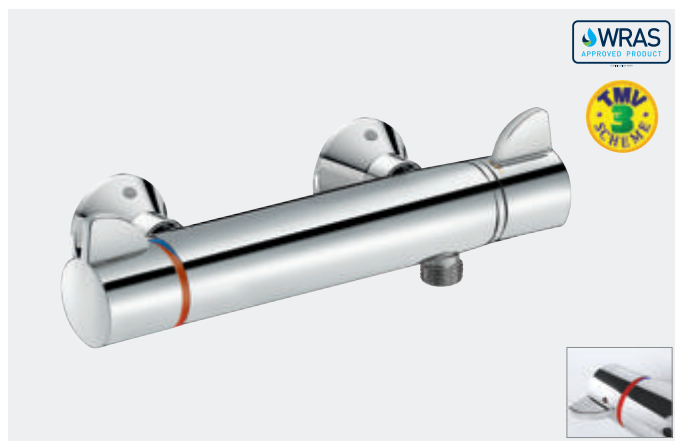
Options: BIOFIL shower head with integrated filter (see page 148)
 Auto-draining device (see page 152), floor traps (see page 155)
 Other connectors available (see pages 152 - 153)



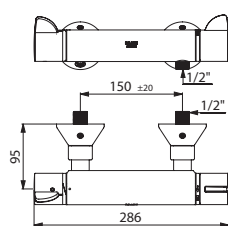
- **SECURITHERM** anti-scalding safety: immediate shut-off if cold water supply fails
- **Securitouch** hot water insulation: prevents any risk of burns when touching the mixer
- **Ergonomic**: controls are easy to grip, suitable for hospital patients, children, the elderly and disabled people

SECURITHERM Securitouch shower

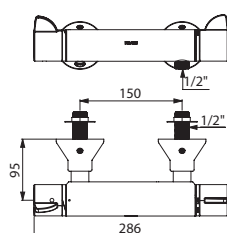
Dual control thermostatic mixer



- **Anti-scalding failsafe**: immediate shut-off if cold water supply fails.
- **Securitouch thermal insulation prevents burns**.
- **Scale-resistant thermostatic cartridge** for adjusting the temperature.
- ¼-turn ceramic head for adjusting the flow rate.
- Temperature control: 25 - 41°C.
- **Maximum temperature limiter** set at 38°C.
- Thermal shocks are possible.
- ERGO control knobs.
- M½" shower outlet.
- M¾" inlets with integrated filters and non-return valves.
- Supplied with 2 in-line STOP / PURGE connectors M½" M¾" (ref. 847327.2P), 2 offset STOP / PURGE connectors M½" M¾" (ref. 855027.2P) or 2 offset standard connectors M½" M¾" (ref. 856027.2P) (see page 152).



H9741



H9741TP

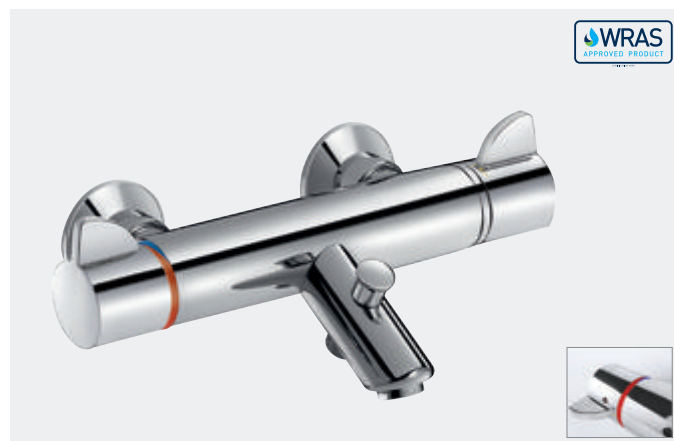
SECURITHERM Securitouch shower

Offset STOP / PURGE connectors	H9741
In-line STOP / PURGE connectors	H9741TP
Offset standard connectors	H9741S

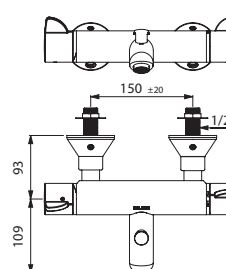
Options: Auto-draining device (see page 152)
Hydrotherapy accessories (see pages 148 & 149)
Other connectors available (see pages 152 & 153)

SECURITHERM Securitouch shower-bath

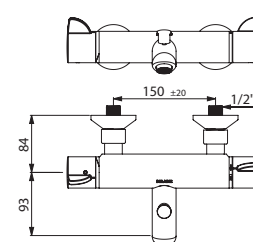
Dual control thermostatic mixer



- **Anti-scalding failsafe**: immediate shut-off if cold water supply fails.
- **Securitouch thermal insulation prevents burns**.
- **Scale-resistant thermostatic cartridge** for adjusting the temperature.
- ¼-turn ceramic head for adjusting the flow rate.
- Temperature control: 25 - 41°C.
- **Double temperature limiter**:
1st limiter set at 38°C, 2nd limiter set at 41°C.
- Thermal shocks are possible.
- **Automatic diverter with low pressure lock** maintains the shower position even if the flow rate is too low.
- ERGO control knobs.
- M½" shower outlet.
- M¾" inlets with integrated filters and non-return valves.
- Supplied with 2 wall connectors M½" M¾" (see page 152).



H9752P



H9752S

SECURITHERM Securitouch shower-bath

In-line STOP / PURGE connectors	H9752P
Offset standard connectors	H9752S

Options: Auto-draining device (see page 152)
Hydrotherapy accessories (see pages 148 & 149)
Other connectors available (see pages 152 & 153)



- **SECURITHERM** anti-scalding failsafe: immediate shut-off if cold water supply fails
- **Securitouch** hot water insulation: prevents any risk of burns when touching the mixer
- **Ergonomic**: controls are easy to grip, suitable for hospital patients, children, the elderly and disabled people
- **Water savings**: 50%

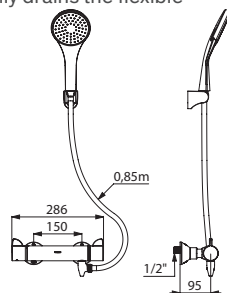
SECURITHERM auto-draining shower kit

With Securitouch dual control thermostatic mixer



Shower kit with auto-draining device includes:

- **Mixer with** scale-resistant **thermostatic cartridge**:
 - **Anti-scalding failsafe**: immediate shut-off if cold water supply fails.
 - **Securitouch thermal insulation prevents burns**.
 - Temperature control: 25 - 41°C.
 - **Double temperature limiter**: 1st limiter set at 38°C, 2nd limiter set at 41°C. Thermal shocks are possible.
 - **Flow rate regulated at 9 lpm**.
 - ERGO control knobs.
 - M $\frac{1}{2}$ " shower outlet.
 - M $\frac{3}{4}$ " inlets with integrated filters and non-return valves.
- Shower head with flexible hose and chrome-plated tilting wall-mounted support.
- **Auto-draining device** FM $\frac{1}{2}$ " automatically drains the flexible and shower head (see page 152).



H9741HYG

SECURITHERM Securitouch auto-draining shower kit	
Offset STOP/PURGE connectors	H9741HYG
Offset standard connectors	H9741SHYG

Options: BIOFIL shower head with integrated filter (see page 148)
 Soap dishes (see page 147), floor traps (see page 155)
 Other connectors available (see pages 152 - 153)

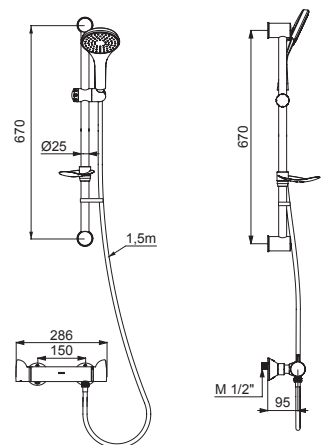
SECURITHERM shower kit

With Securitouch dual control thermostatic mixer



Shower kit includes:

- **Mixer with** scale-resistant **thermostatic cartridge**:
 - **Anti-scalding failsafe**: immediate shut-off if cold water supply fails.
 - **Securitouch thermal insulation prevents burns**.
 - Temperature control: 25 - 41°C.
 - **Double temperature limiter**: 1st limiter set at 38°C, 2nd limiter set at 41°C. Thermal shocks are possible.
 - **Flow rate regulated at 9 lpm**.
 - ERGO control knobs.
 - M $\frac{1}{2}$ " shower outlet.
 - M $\frac{3}{4}$ " inlets with integrated filters and non-return valves..
- Sliding shower head on a chrome-plated rail with flexible and soap dish.
- **Shower hose retaining collar**.



H9741KIT

SECURITHERM Securitouch shower kit	
Offset STOP/PURGE connectors	H9741KIT
Offset standard connectors	H9741SKIT

Options: shower head with integrated filter (see page 148)
 Auto-draining device (see page 152), floor traps (see page 155)
 Other connectors available (see pages 152 - 153)

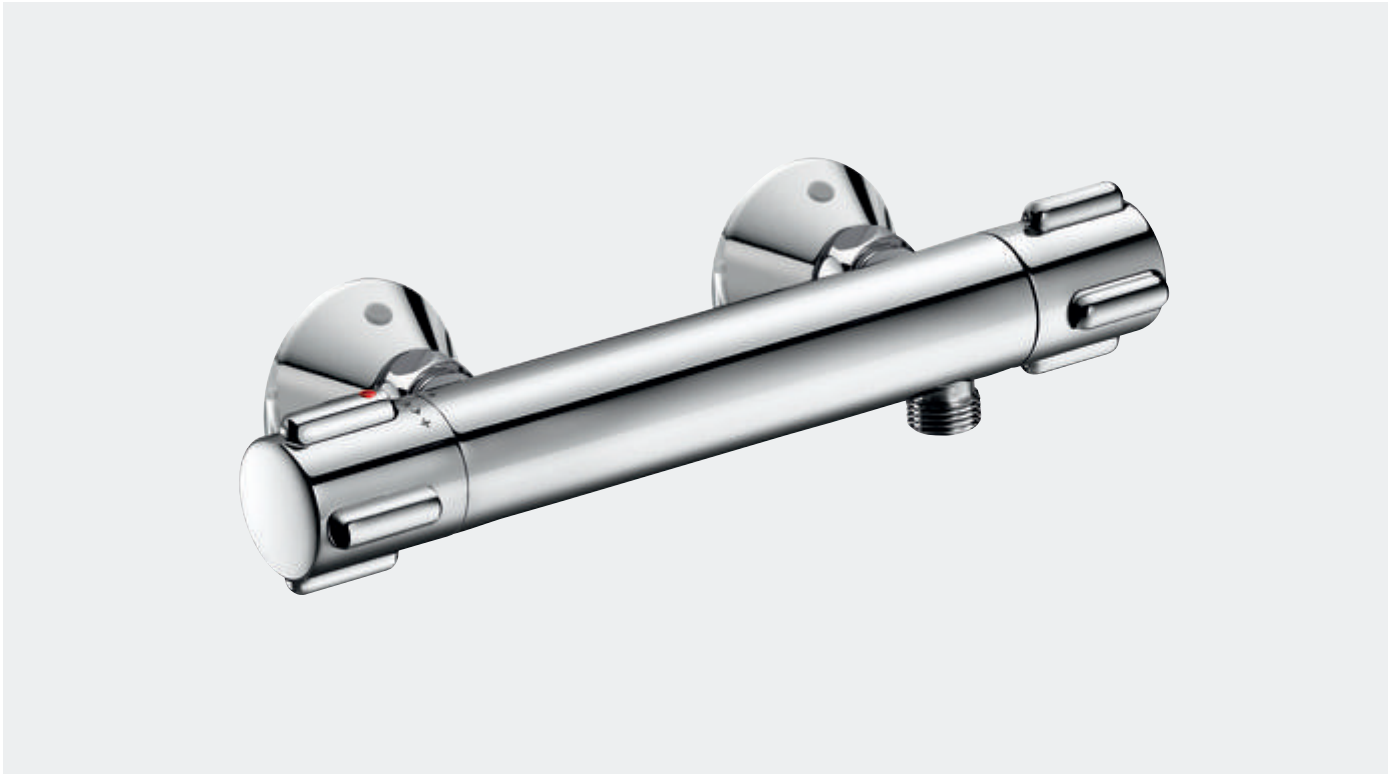
DELABIE / SECURITHERM dual control thermostatic mixers



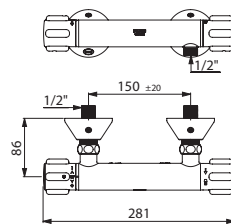
- **SECURITHERM** anti-scalding failsafe: immediate shut-off if cold water supply fails
- **Ergonomic**: controls are easy to grip, suitable for hospital patients, children, the elderly and disabled people
- **Water savings**: 50%

SECURITHERM shower

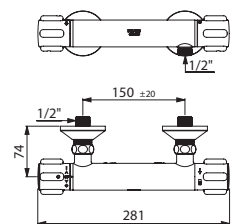
Dual control thermostatic mixer



- **Anti-scalding failsafe**: immediate shut-off if cold water supply fails.
- **Scale-resistant thermostatic cartridge** for adjusting the temperature.
- ¼-turn ceramic head for adjusting the flow rate.
- Temperature control: 25 - 40°C.
- **Maximum temperature limiter** set at 38°C.
- **Thermal shocks are possible** without removing the control knob or shutting off the cold water supply (see page 101).
- **Flow rate regulated at 9 lpm.**
- CLASSIC controls knobs.
- 1½" shower outlet.
- 3/4" inlets with integrated filters and non-return valves.
- Supplied with 2 offset wall connectors 1½" M3/4" (see page 152).



H9739



H9739S

SECURITHERM shower	
Offset STOP/PURGE connectors	H9739
Offset standard connectors	H9739S
Options: auto-draining device (see page 152) Hydrotherapy accessories (see pages 148 - 149) Other connectors available (see pages 152 - 153)	



- **SECURITHERM** anti-scalding failsafe: immediate shut-off if cold water supply fails
- **Ergonomic**: controls are easy to grip, suitable for hospital patients, children, the elderly and disabled people
- **Water savings**: 50%

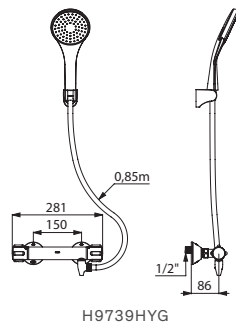
SECURITHERM auto-draining shower kit

With dual control thermostatic mixer



Shower kit with auto-draining device includes:

- **Mixer with** scale-resistant **thermostatic cartridge**:
 - **Anti-scalding failsafe**: immediate shut-off if cold water supply fails.
 - Temperature control: 25 - 40°C.
 - **Maximum temperature limiter** set at 38°C.
 - Thermal shocks are possible (see page 101).
 - **Flow rate limited to 9 lpm.**
 - CLASSIC control knobs.
 - M $\frac{1}{2}$ " shower outlet.
 - M $\frac{3}{4}$ " inlets with integrated filters and non-return valves.
- Shower head with flexible hose and chrome-plated wall-mounted support.
- **Auto-draining device** FM $\frac{1}{2}$ " automatically drains the flexible and shower head (see page 152).



H9739HYG

SECURITHERM auto-draining shower kit	
Offset STOP/PURGE connectors	H9739HYG
Offset standard connectors	H9739SHYG

Options: BIOFIL shower head with integrated filter (see page 148)
 Soap dishes (see page 147), floor traps (see page 155)
 Other connectors available (see pages 152 - 153)

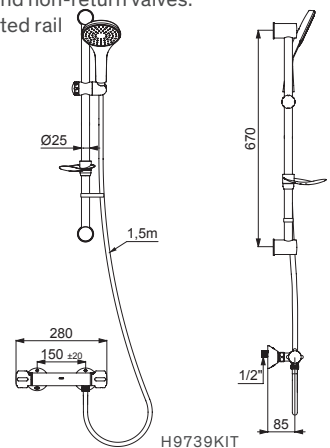
SECURITHERM shower kit

With dual control thermostatic mixer



Shower kit includes:

- **Mixer with** scale-resistant **thermostatic cartridge**:
 - **Anti-scalding failsafe**: immediate shut-off if cold water supply fails.
 - Temperature control: 25 - 40°C.
 - **Maximum temperature limiter** set at 38°C.
 - Thermal shocks are possible (see page 101).
 - **Flow rate limited to 9 lpm.**
 - CLASSIC control knobs.
 - M $\frac{1}{2}$ " shower outlet.
 - M $\frac{3}{4}$ " inlets with integrated filters and non-return valves.
- Sliding shower head on chrome-plated rail with flexible hose and soap dish.
- **Shower hose retaining collar.**



H9739KIT

SECURITHERM shower kit	
Offset STOP/PURGE connectors	H9739KIT
Offset standard connectors	H9739SKIT

Options: BIOFIL shower head with integrated filter (see page 148)
 Soap dishes (see page 147), floor traps (see page 155)
 Other connectors available (see pages 152 - 153)



BIOSAFE: INFECTION CONTROL

Opens/closes automatically, with no manual contact

DELABIE's electronic shower panels are operated by active infrared detection.

Flow opens when the detector senses hands and shuts off automatically when hands are removed from the detection zone.

No manual contact prevents the spread of germs by hand.

Anti-bacterial duty flush programme

If a shower is not used for prolonged periods of time, water in the pipework is not renewed, which inevitably favours the development of bacteria. DELABIE electronic shower panels have a duty flush programme.

An automatic flush takes place for approximately 60 seconds every 24 hours after the last use.

Reduced-stagnation solenoid valve

Most solenoid valves are fitted with a rubber membrane behind which water stagnates and is not renewed. This can lead to bacterial proliferation.

DELABIE has developed a patented technology that operates without a membrane.

With this **piston-operated solenoid valve**, water is drained and renewed with every use which **reduces niches where bacteria can develop.**

The solenoid valve's self-cleaning system with a calibrated groove reduces the build-up of dirt. Furthermore, its slow closure eliminates water-hammer.

Scale-resistant shower head

The nozzle in the shower head is made from **Hostaform®**, a material that is highly scale-resistant (build-up of scale is 10 times slower). The design, with no grid, allows the shower head to **drain the water after being used, preventing the spread of germs.**

Thermal shocks

With **SECURITHERM** technology, it is possible to undertake thermal shocks without removing the panel. Simply press the red button with a pointed tool to override the temperature limiter.

Mixers with no pathogenic bacteria

DELABIE guarantees that its shower panels will be delivered free from pathogenic bacteria.

DESIGN

DELABIE's products, known for their endurance and reliability, have a timeless design. The diversity of the product range fits perfectly with any commercial installation.

Aesthetic products are subject to less vandalism as they are better respected. The smooth shape of the mixers reduces the build-up of dirt and facilitates cleaning. Easy but secured access to the control mechanisms provides easy maintenance.

80% WATER AND ENERGY SAVINGS

Water savings

Compared to conventional showers, electronic shower panels can offer maximum water savings. They ensure the manager's water bills can be reduced whilst preserving user comfort.

• Automatic shut-off and split delivery

The shower can be interrupted at any moment by the user. If the user forgets, **a safety shut-off** stops the flow after 60 seconds. This removes the risk of waste through negligence. The time flow is reduced to the necessary minimum (wetting, rinsing).

• Flow rate 6 lpm

DELABIE's electronic shower panels are regulated at **6 lpm**. The **flow rate remains constant** regardless of pressure fluctuations in the system.

Energy savings

DELABIE electronic shower panels do not require much energy to operate. DELABIE has chosen infrared active pulse technology, **a low-power consumption solution.**

The infrared beam is emitted intermittently, saving energy while ensuring effective detection. The batteries have an average life span of **350,000 cycles** (i.e. 3 - 6 years) depending on the frequency of use. The Lithium batteries are widely available, affordable and recyclable. The significant **hot water savings** provided by DELABIE shower panels also result in energy savings.

Ecolabels

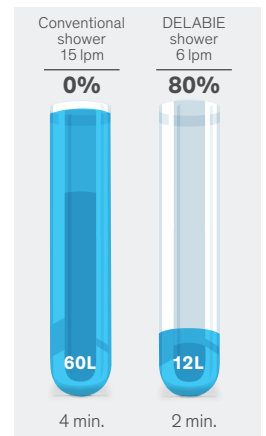
The water and energy saving performance of DELABIE's shower panels means that the buildings achieve the highest performance standards for international rating schemes such as LEED, BREEAM or HQE (for more information see 16 - 19)



Reduced-stagnation solenoid valve



Water nozzle with no grid



Water savings per use

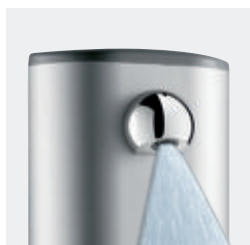
COMPARISONS OF WATER CONSUMPTION

Comparison between a conventional shower and a DELABIE electronic panel

Flow rate	Wetting	Soaping	Rinsing	Water consumption
15L	1 min.	2 min.	1 min.	60L 4 min.
6L	1 min.	1 min.	1 min.	12L 2 min.



Anti-scalding safety



Comfortable spray



Sizes and finishes



Vandal-resistant

TECHNICAL SOLUTIONS SUITABLE FOR ALL CONSTRAINTS

On/Off mode: activation with no manual contact

Electronic detection allows all users (children, the elderly or people with reduced mobility) to use the shower with no effort required. Voluntary activation and closure, with no manual contact, provides perfect hygiene.

Temperature selection and stability

The user can choose their desired water temperature by adjusting the single control.

SECURITHERM thermostatic shower panels provide additional comfort by regulating the water temperature, even with variations in pressure.

Anti-scalding safety

• Maximum temperature limiter

DELABIE's mixers are supplied with a **pre-set maximum temperature limiter**, which can be adjusted during installation. The user cannot increase the temperature, preventing any risk of scalding.

• Anti-scalding safety

SECURITHERM thermostatic technology ensures that the hot water **shuts off immediately** if the cold water supply fails (and vice versa).

Comfortable spray

The specially designed nozzle delivers a **comfortable spray** which provides **effective** coverage and a reduced noise level. The spray can be **adjusted**.

Types of supply

The electronic shower panels are available with **top inlets** (via stopcocks) or **concealed inlets** (via flexibles).

Sizes and finishes

DELABIE's shower panels are available in three different finishes: **aluminium** H.1.0m, W. 21cm, **stainless steel** H. 1.20m, W. 25cm and **MINERALSTEEL** H. 1.20m, W. 25cm (a composite material reinforced with fibreglass). The large models are ideal for hiding the traces of previous recessed installations.

Technical characteristics

Operating pressure	1 - 5 bar, 3 bar recommended
Pressure differential HW/CW	$\Delta P < 1$ bar
Mains supply*	230V / 50Hz class II (without earth)
6V Lithium battery*	223 standard battery Average lifespan ~350,000 cycles or 3 - 6 years
Duty flush programme	24hr after last use
Automatic shut-off in event of negligence	Prevents blocking in the open position
Temperature limiter	Can be adjusted
HW supply	55°C
CE	Conforms with European directives CEM 2014/30/UE and BT 2014/35/UE

* Depending on the model

SPECIFICALLY DESIGNED FOR COMMERCIAL ENVIRONMENTS

DELABIE's shower panels do not need to be recessed and respond the need for vandal-resistant products in public environments whilst maintaining user comfort.

Resistance to intensive use and vandalism

DELABIE's electronic shower panels have been designed to withstand intensive use and vandalism, both voluntary and involuntary. The panels are made from **durable and resistant materials** whilst the controls and shower heads are made from chrome-plated solid brass. The shower nozzle can be fixed in place. The mechanisms and sensors are **shock-resistant**. The panel **fixings** are **reinforced** and **concealed**.

The ends are concealed to make the back of the panel inaccessible. **Streamlined designs** discourage attempts at vandalism. In order to prevent misuse and waste, the **time flow safety** system prevents the valve from being blocked in full flow.

Superior endurance

DELABIE's electronic shower panel systems are hard-wearing. The piston-operated solenoid valve is self-cleaning, which extends its lifespan to over **500,000 operations**.

DELABIE's controls perform to the highest standards. Each model is subjected to endurance tests under extreme conditions in DELABIE's laboratories.

Minimal servicing

Shower head nozzles and mechanisms are made from **scale-resistant materials** (Hostaform®) and do not require de-scaling.

Easy to maintain

The **spare parts** are **standardised** to ensure quick and easy replacement by maintenance staff. Access to the battery and mixer cartridge is **from the front, without having to remove the panel**.

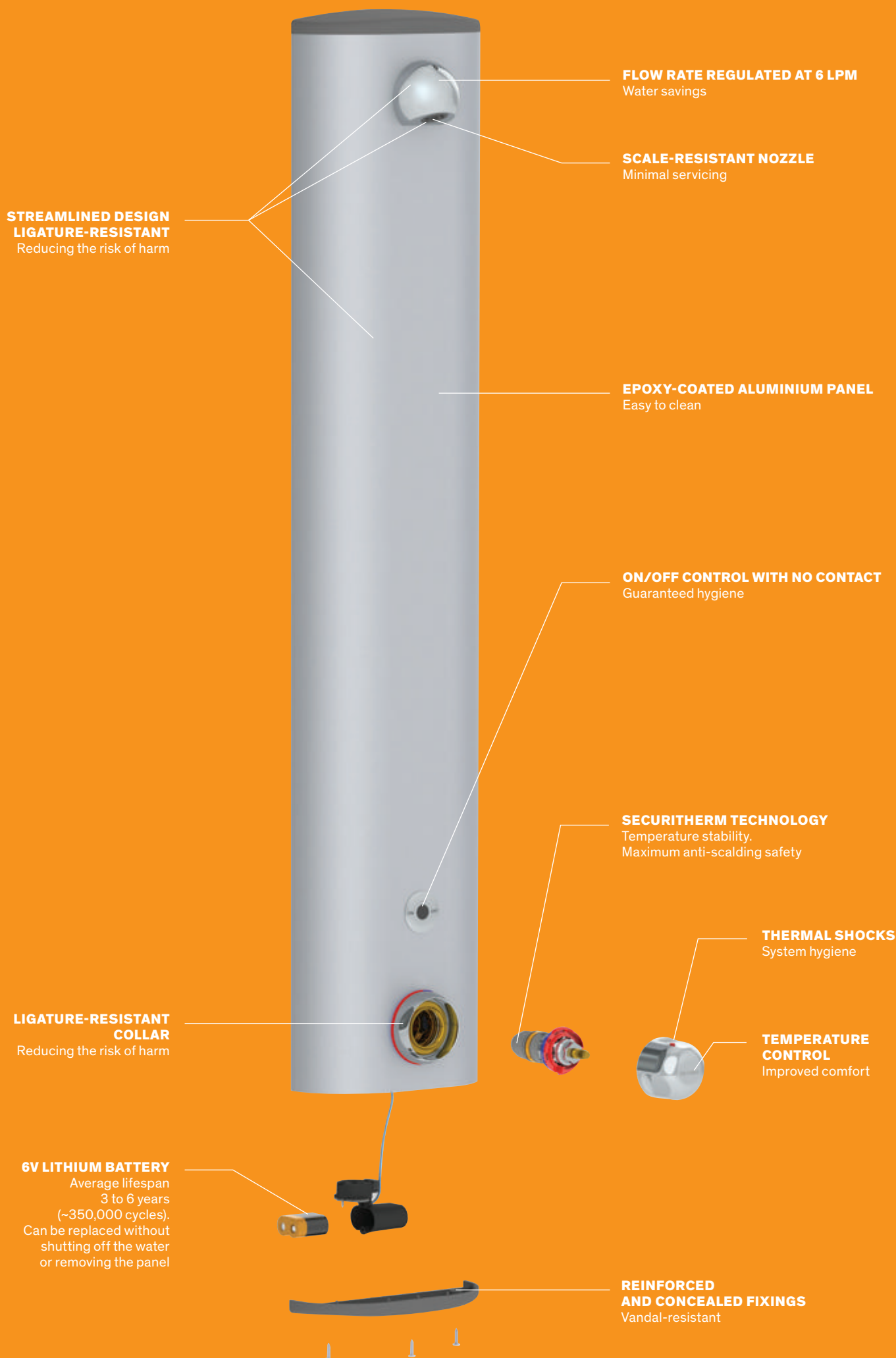
Easy to install

The shower panels are supplied ready to mount and are quick to install.

Reliable presence detection

DELABIE has chosen the most reliable detection system: **infrared active pulse**. It cannot be adjusted or affected by variations in light levels.

10-year warranty against any manufacturing defect.

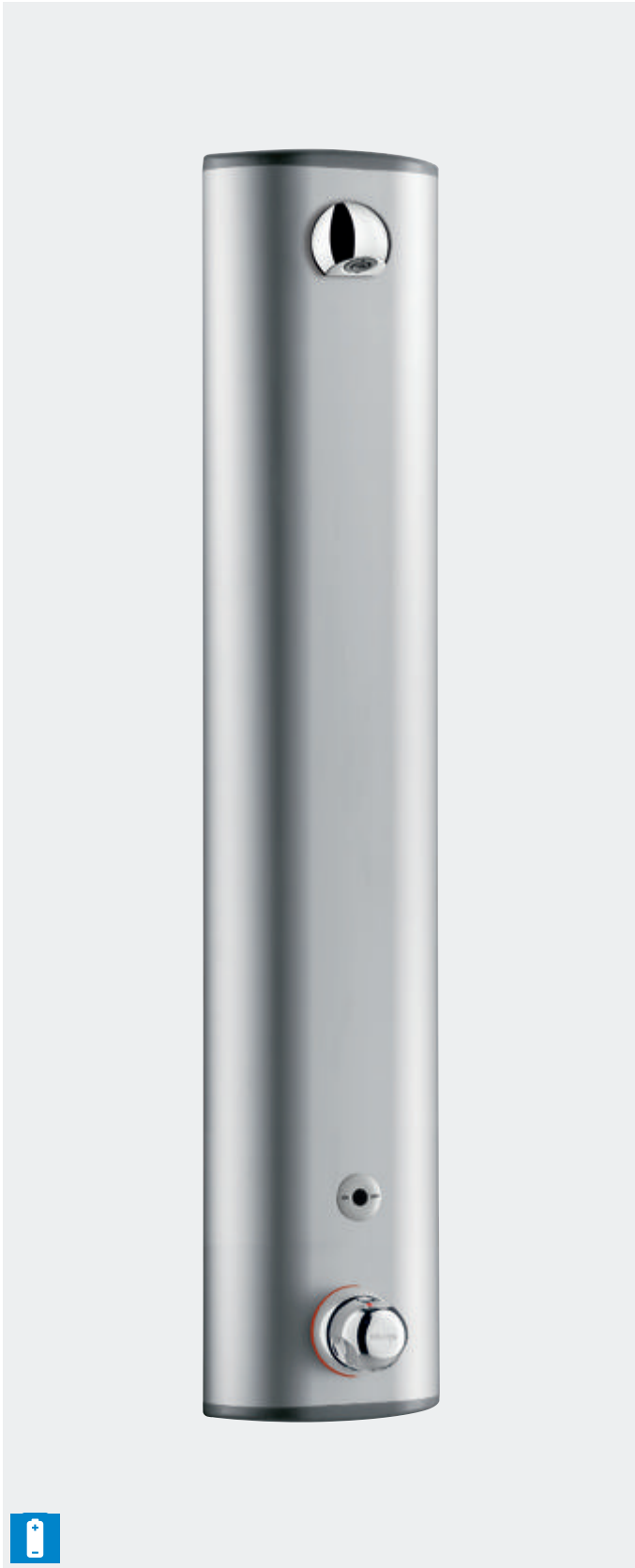




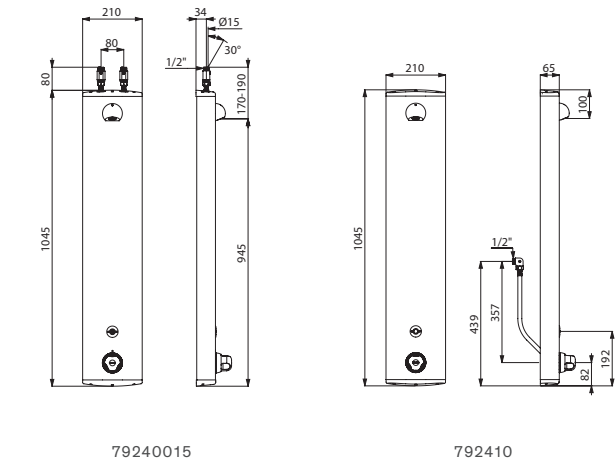
- **SECURITHERM** anti-scalding safety: immediate shut-off if cold water supply fails
- **BIOSAFE** infection control: no manual contact, anti-bacterial duty flush, scale-resistant shower head
- **Comfort**: temperature selection directly on the mixer, thermostatic control, automatic or voluntary shut-off
- **Water savings**: 80%

SECURITHERM aluminium shower panel

With electronic thermostatic mixer



- SECURITHERM electronic thermostatic shower panel:**
- Aluminium epoxy-coated shower panel for wall-mounted, exposed installation.
 - **SECURITHERM thermostatic mixer.**
 - Adjustable temperature control from cold water up to 38°C with 1st limiter set at 38°C and 2nd limiter set at 41°C (except for refs. 79240015 and 792410UK: single temperature limiter set at 41°C).
 - **Anti-scalding safety:** immediate shut-off if cold water supply fails.
 - Thermal shocks are possible.
 - **Battery-operated with 223 6V Lithium battery.**
 - Infrared presence detection. Shower starts when hand is 4cm from the sensor.
 - Shuts off on demand or automatically after ~60 sec.
 - **Duty flush** (~60sec. every 24hr after the last use).
 - **Flow rate 6 lpm** at 3 bar.
 - Chrome-plated, tamperproof **ROUND shower head** with scale-resistant nozzle and automatic flow rate regulation.
 - Concealed fixings, filters and non-return valves.



SECURITHERM aluminium electronic panel	
With top inlet via in-line stopcocks M1½"	792400
With top inlet via in-line stopcocks Ø 15mm for compression fittings *	79240015
With concealed inlet via flexibles M1½"	792410
With concealed inlet via flexibles M1½" *	792410UK
* Single temperature limiter set at 41°C	
Option: extension for shower panel available (see page 154)	
We recommend installing a floor trap (see page 155)	



- **SECURITHERM** anti-scalding: immediate shut-off if cold water supply fails
- **BIOSAFE** infection control: no manual contact, anti-bacterial duty flush, scale-resistant shower head
- **Comfort**: temperature selection directly on the mixer, thermostatic control, automatic or voluntary shut-off
- **Water savings**: 80%

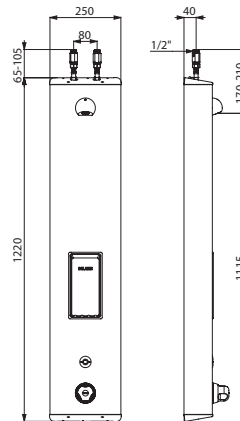
SECURITHERM MINERALSTEEL or stainless steel shower panel

With electronic thermostatic mixer

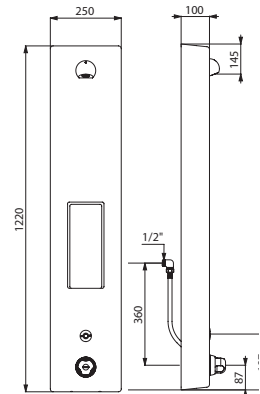


SECURITHERM electronic thermostatic shower panel:

- Stainless steel or MINERALSTEEL panel for wall-mounted, exposed installation.
- **SECURITHERM thermostatic mixer.**
- Adjustable temperature control from cold water up to 38°C with 1st limiter set at 38°C and 2nd limiter set at 41°C (except for ref. 79240415: single temperature limiter set at 41°C).
- **Anti-scalding safety**: immediate shut-off if cold water supply fails.
- Thermal shocks are possible.
- **Battery-operated with 223 6V Lithium battery or 230/6V mains supply.**
- **To operate:**
 - Battery-operated: shower starts when hand is 4cm from the sensor.
 - Mains supply: shower starts when electronic push-button is pressed.
- Shuts off on demand or automatically after ~60 sec.
- **Duty flush** (~60sec. every 24hr after the last use).
- **Flow rate set at 6 lpm at 3 bar.**
- **ROUND**, tamperproof chrome-plated **shower head**, with scale-resistant nozzle with automatic flow rate regulator.
- Concealed fixings, filters and non-return valves.



792404



792416

SECURITHERM stainless steel or MINERALSTEEL electronic panel

With top inlet via in-line stopcocks, M $\frac{1}{2}$ "

Stainless steel with integrated soap dish (battery)	792404
Stainless steel finish with integrated soap dish (mains)	792504
Stainless steel finish without soap dish (battery)	792403
MINERALSTEEL with integrated soap dish (battery)	792406

With top inlet via in-line stopcocks, Ø 15mm for compression fittings

Stainless steel finish with integrated soap dish (battery) *	79240415
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With concealed inlet via flexibles, M $\frac{1}{2}$ "

Stainless steel finish with integrated soap dish (battery)	792414
Stainless steel finish with integrated soap dish (mains)	792514
Stainless steel finish without soap dish (battery)	792413
MINERALSTEEL with integrated soap dish (battery)	792416

* Single temperature limiter set at 41°C

Option: extension for shower panel available (see page 154)

Floor traps (see page 155)



BIOSAFE: INFECTION CONTROL

Automatic timed shut-off, with no manual contact
DELABIE's time flow shower panels shut off automatically once the push-button has been pressed and the valve has opened.
No manual contact prevents the spread of germs by hand.

Scale-resistant shower head
The nozzle in the shower head is made from **Hostaform®**, a material that is highly scale-resistant (build-up of scale is 10 times slower). The design, with no grid, allows the shower head to **drain the water after being used, preventing the spread of germs.**

Thermal shocks
With SECURITHERM technology, it is possible to undertake thermal shocks without removing the panel. Simply press the red button with a pointed tool to override the temperature limiter.

Mixers with no pathogenic bacteria
DELABIE guarantees that its shower panels will be delivered free from pathogenic bacteria.

DESIGN

Commercial environments and design
DELABIE's products, known for their endurance and reliability, have a timeless design. The diversity of the product range fits perfectly with any commercial installation. In a psychiatric hospital, the products must be robust and secure: with concealed mechanisms, anti-ligature, etc.

Design without constraints
Aesthetic products are subject to less vandalism as they are better respected. The smooth shape of the mixers reduces the build-up of dirt and facilitates cleaning. Easy but secured access to the control mechanisms provides easy maintenance.

80% WATER AND ENERGY SAVINGS

Water savings

Compared to conventional showers, DELABIE's SECURITHERM shower panels can offer maximum water savings. They ensure the manager's water bills can be reduced whilst preserving user comfort.

• Flow rate 6 lpm

DELABIE SECURITHERM shower panels are regulated at **6 lpm**. The **flow rate remains constant** regardless of pressure fluctuations in the system.

• Automatic shut-off and split delivery for time flow models

The time flow is automatic and shuts off after approximately 30 seconds of flow.

DELABIE's time flow panels remove the risk of waste through negligence. The flow time is reduced to the necessary minimum (wetting, rinsing).

Energy savings

DELABIE's SECURITHERM shower panels operate completely autonomously with no need for an electrical supply. They **do not consume any power at all.**

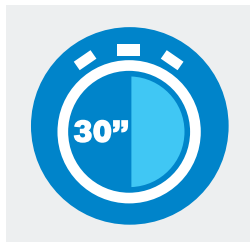
The significant **hot water savings** provided by DELABIE's shower panels also result in energy savings.

Ecological

DELABIE's shower panels are made from materials that are **100% recyclable** which ensures that the products receive the best ecological assessment in their category.

Ecolabels

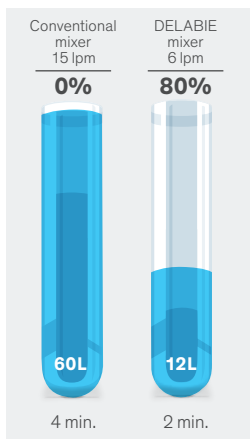
The water and energy saving performance of DELABIE shower panels means that the buildings achieve the highest performance standards for international rating schemes such as LEED, BREEAM, HQE or ESTIDAMA (for more information, see pages 16 to 19).



Optimised time flow









Water nozzle with no grid



Water savings per use

COMPARISONS OF WATER CONSUMPTION

Comparison between a conventional shower and a DELABIE time flow panel

Flow rate	Wetting	Soaping	Rinsing	Water consumption
15L	 1 min.	 2 min.	 1 min.	60L 4 min.
6L	 2 x 30 sec.		 2 x 30 sec.	12L 2 min.

TECHNICAL SOLUTIONS SUITABLE FOR ALL CONSTRAINTS

Public and commercial buildings have different needs according to the installation's location and type of user. DELABIE has developed specialist products to meet these various needs (improved comfort, preventing waste, user safety, etc.).

Improved ergonomics and functionality

- **SECURITHERM time flow panels with Soft technology: soft-touch operation**
DELABIE has developed time flow controls with **soft-touch operation**. Soft technology allows all users (children, the elderly or people with reduced mobility) to use the controls with no effort required. **TEMPOSOF** panels are fitted with a priming system that is twice as easy to operate ensuring user comfort.
- **SECURITHERM sequential panels:**
The same lateral movement opens the water flow and adjusts the temperature.

Temperature selection and stability

SECURITHERM thermostatic panels provide additional comfort by regulating water temperature even with variations in pressure.

Anti-scalding safety

- **Maximum temperature limiter**
DELABIE mixers are supplied with a **pre-set maximum temperature limiter**, which can be adjusted during installation. The user cannot increase the temperature above the maximum set temperature, reducing the risk of scalding.
- **Anti-scalding safety**
SECURITHERM thermostatic technology ensures that the hot water **shuts off immediately** if the cold water supply fails (and vice versa).

Comfortable spray

The specially designed nozzle delivers a **comfortable spray** which provides **effective** coverage and a reduced noise level. The spray can be **adjusted**.

Types of inlets

The shower panels are available with **top inlets** (via stopcocks) or **concealed inlets** (via flexibles).

Sizes and finishes

DELABIE shower panels are available in three finishes: **aluminium** H. 1.0m, W. 21cm, **stainless steel** H. 1.2m, W. 25cm and **MINERALSTEEL** H. 1.20m, W. 25cm (a composite material reinforced with fibreglass). The large models are ideal for hiding the traces of previous recessed installations.

SPECIFICALLY DESIGNED FOR COMMERCIAL ENVIRONMENTS

DELABIE's shower panels do not need to be recessed and respond to the need for vandal-resistant products in public environments whilst maintaining user comfort.

Resistance to intensive use and vandalism

DELABIE's electronic shower panels have been specifically designed to withstand intensive use and vandalism, both voluntary and involuntary. The panels are made from **durable and resistant materials** whilst the controls and shower heads are made from chrome-plated solid brass. The shower nozzle can be fixed in place. The mechanisms and sensors are shock-resistant. The panel fixings are reinforced and concealed. The ends are concealed to make the back of the panel inaccessible. Streamlined designs discourage attempts at vandalism.

Superior endurance

The mechanisms in DELABIE's time flow panels are hard-wearing. The hydraulic timing system with a calibrated groove is self-cleaning, which extends its life span to **over 500,000 operations**. There is no metal-metal or metal-plastic friction, **ensuring reliable and durable timing**. DELABIE's time flow controls perform to the highest standards. Each model is subjected to endurance tests under extreme conditions in DELABIE's laboratories.

Minimal servicing

Shower head nozzles and mechanisms are made from **scale-resistant materials** (Hostaform®) and do not require de-scaling. The self-cleaning mechanisms are protected by filters.

Easy to maintain

The **spare parts** are **standardised** to ensure quick and easy replacement by the maintenance staff. The whole of the system is integrated within **an interchangeable cartridge which can be changed from the front without having to remove the panel**.

Easy to install

The shower panels are supplied ready to mount and are quick to install.

10-year warranty against any manufacturing defects.

Technical characteristics

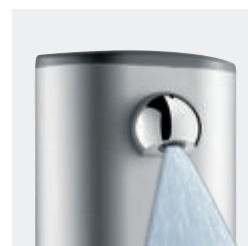
Operating pressure	1 - 5 bar, 3 bar recommended
Pressure differential HW/CW	$\Delta P < 1$ bar
Temperature limiter	Can be adjusted
HW supply	55°C



Soft technology:
soft-touch operation



Anti-scalding



Comfortable spray



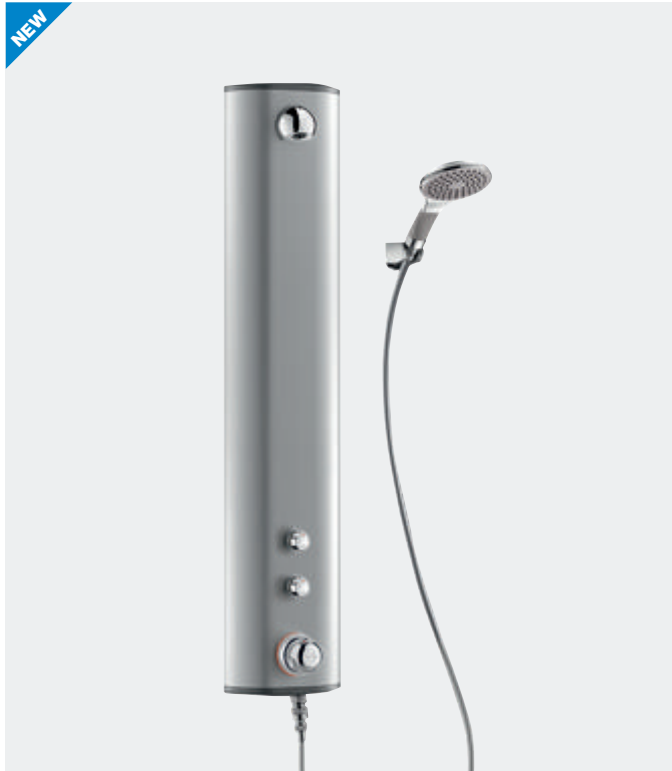
Sizes and finishes



- **SECURITHERM** anti-scalding safety: immediate shut-off if cold water supply fails
- **Comfort**: temperature selection directly on the mixer, thermostatic control
- **Vandal-resistant**: aluminium panel, concealed fixings, solid brass shower head and valve
- **Water savings**: 80%

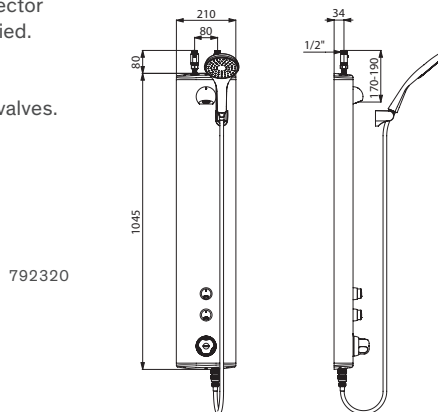
SECURITHERM aluminium shower panel

With dual control thermostatic mixer and handset



SECURITHERM thermostatic dual control time flow shower panel:

- Aluminium epoxy-coated shower panel for wall-mounted, exposed installation.
- **SECURITHERM thermostatic mixer.**
- Adjustable temperature control from cold water up to 38°C with 1st limiter set at 38°C and 2nd limiter set at 41°C
- **Anti-scalding safety**: immediate shut-off if cold water supply fails.
- Thermal shocks are possible.
- **Time flow valve ~30 sec with soft-touch operation.**
- Chrome-plated, tamperproof **ROUND shower head** with scale-resistant nozzle and automatic flow rate regulation at **6 lpm** at 3 bar.
- **Handset** with removable flexible via push-fit rapid connector and wall support supplied.
- M $\frac{1}{2}$ " connections.
- Concealed fixings.
- Filters and non-return valves.



792320

SECURITHERM aluminium dual control time flow panel

With top inlets via in-line stopcocks, M $\frac{1}{2}$ "	792320
With concealed inlets via flexibles, M $\frac{1}{2}$ "	792330

Option: extension (see page 154), floor traps (see page 155)

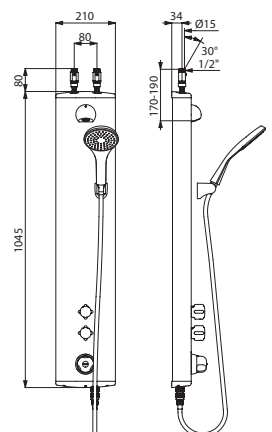
SECURITHERM aluminium shower panel

With dual control thermostatic mixer and handset



SECURITHERM thermostatic dual control shower panel:

- Aluminium epoxy-coated shower panel for wall-mounted, exposed installation.
- **SECURITHERM thermostatic mixer.**
- Adjustable temperature control from cold water up to 38°C with 1st limiter set at 38°C and 2nd limiter set at 41°C (except for ref. 79239015: single temperature limiter set at 41°C).
- **Anti-scalding safety**: immediate shut-off if cold water supply fails.
- Thermal shocks are possible.
- **¼-turn non-time flow valves.**
- Chrome-plated, tamperproof **ROUND shower head** with scale-resistant nozzle and automatic flow rate regulation at **6 lpm** at 3 bar.
- **Handset** with removable flexible via push-fit rapid connector and wall support supplied.
- Concealed fixings.
- Filters and non-return valves.



79239015

SECURITHERM aluminium dual control panel

With top inlet via in-line stopcocks M $\frac{1}{2}$ "	792390
With top inlet via in-line stopcocks Ø 15mm for compression fittings*	79239015
With concealed inlet via flexibles M $\frac{1}{2}$ "	792380

* Single temperature limiter set at 41°C

Option: extension (see page 154), floor traps (see page 155)



- **SECURITHERM** anti-scalding safety: immediate shut-off if cold water supply fails
- **Comfort**: temperature selection directly on the mixer, thermostatic control
- **Vandal-resistant**: aluminium panel, concealed fixings, solid brass shower head and valve
- **Water savings**: 80%

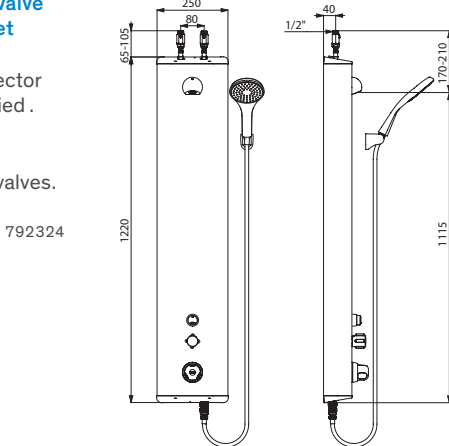
SECURITHERM stainless steel shower panel

With dual control thermostatic mixer and handset



SECURITHERM thermostatic dual control shower panel:

- Large model stainless steel shower panel for wall mounted exposed installation.
- **SECURITHERM thermostatic mixer.**
- Adjustable temperature control from cold water up to 38°C with 1st limiter set at 38°C and 2nd limiter set at 41°C.
- **Anti-scalding safety**: immediate shut-off if cold water supply fails.
- Thermal shocks are possible.
- **Time flow valve ~30 sec with soft-touch operation** for chrome-plated, tamperproof **ROUND shower head** with scale-resistant nozzle and automatic flow rate regulation at **6 lpm** at 3 bar.
- **¼-turn non-time flow valve** for operation of **handset** with removable flexible via push-fit rapid connector and wall support supplied.
- M½" connections.
- Concealed fixings.
- Filters and non-return valves.



792324

SECURITHERM stainless steel dual control panel

With top inlets via in-line stopcocks, M½"	792324
With concealed inlets via flexibles, M½"	792334

Option: extension (see page 154), floor traps (see page 155)

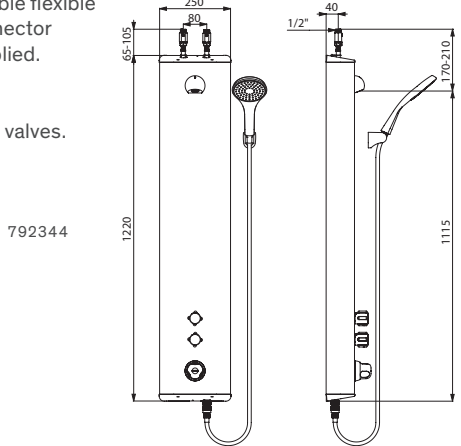
SECURITHERM stainless steel shower panel

With dual control thermostatic mixer and handset



SECURITHERM thermostatic dual control shower panel with handset:

- Large model stainless steel shower panel for wall mounted exposed installation.
- **SECURITHERM thermostatic mixer.**
- Adjustable temperature control from cold water up to 38°C with 1st limiter set at 38°C and 2nd limiter set at 41°C.
- **Anti-scalding safety**: immediate shut-off if cold water supply fails.
- Thermal shocks are possible.
- **¼-turn non-time flow valves.**
- Chrome-plated, tamperproof **ROUND shower head** with scale-resistant nozzle and automatic flow rate regulation at **6 lpm** at 3 bar.
- **Handset** with removable flexible via push-fit rapid connector and wall support supplied.
- M½" connections.
- Concealed fixings.
- Filters and non-return valves.



792344

SECURITHERM stainless steel dual control panel

With top inlets via in-line stopcocks, M½"	792344
With concealed inlets via flexibles, M½"	792354

Option: extension (see page 154), floor traps (see page 155)



- **SECURITHERM** anti-scalding safety: immediate shut-off if cold water supply fails, opens with cold water
- **Comfort**: temperature selection directly on the mixer, thermostatic control
- **Vandal-resistant**: aluminium panel, concealed fixings, solid brass shower head and valve

SECURITHERM aluminium shower panel

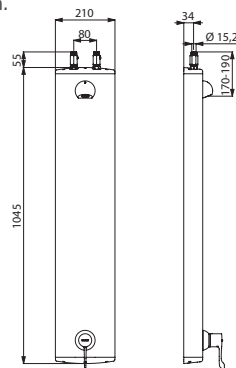
With sequential mixer and fixed shower head



SECURITHERM thermostatic sequential shower panel:

- Aluminium epoxy-coated shower panel for wall-mounted, exposed installation.
- Top copper inlets via stopcocks.
- **SECURITHERM sequential thermostatic mixer** (non-time flow).
- Adjustable temperature control from cold water up to 39°C: Maximum temperature limiter set at 39°C, can be adjusted.
- **Anti-scalding safety**: immediate shut-off if cold water supply fails.
- Thermal shocks are possible.
- **Flow rate 6 lpm** at 3 bar.
- Chrome-plated, tamperproof **ROUND shower head** with scale-resistant nozzle and automatic flow rate regulation.
- Hygiene lever L. 100mm.
- Concealed fixings.
- Filters.

Valve pending TMV3 approval under application BC1824



H9639

SECURITHERM aluminium sequential panel with fixed shower head

With flexibles, M½"	H9639
With copper tails, Ø 15mm for compression fittings	H963915

Option: extension (see page 154), floor trap (see page 155)

SECURITHERM aluminium shower panel

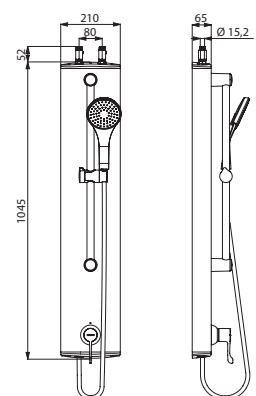
With sequential mixer and fixed shower head



SECURITHERM thermostatic sequential shower panel:

- Aluminium epoxy-coated shower panel for wall-mounted, exposed installation.
- Top copper inlets via stopcocks.
- **SECURITHERM sequential thermostatic mixer** (non-time flow).
- Adjustable temperature from cold water up to 39°C: Maximum temperature limiter set at 39°C, can be adjusted.
- **Anti-scalding safety**: immediate shut-off if cold water supply fails.
- Thermal shocks are possible.
- **Flow rate 9 lpm** at 3 bar.
- Sliding **handset** on chrome-plated rail with flexible hose.
- Hygiene lever L. 100mm.
- Concealed fixings.
- Filters.

Valve pending TMV3 approval under application BC1824



H9636

SECURITHERM aluminium sequential panel with handset

With flexibles, M½"	H9636
With copper tails, Ø 15mm for compression fittings	H963615

Option: extension (see page 154), floor trap (see page 155)



- **SECURITHERM** anti-scalding safety: immediate shut-off if cold water supply fails, opens with cold water
- **Comfort:** temperature selection directly on the mixer, thermostatic control
- **Vandal-resistant:** MINERALSTEEL panel, concealed fixings, solid brass shower head and valve
- **Water savings:** 80%

SECURITHERM MINERALSTEEL shower panel

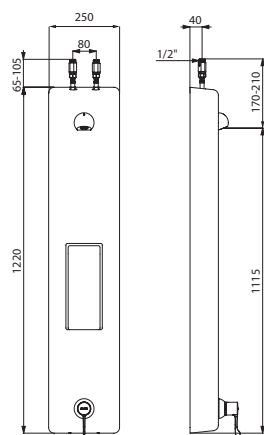
With sequential mixer and fixed shower head



SECURITHERM thermostatic sequential shower panel with single control:

- Large model MINERALSTEEL shower panel for wall-mounted, exposed installation.
- **SECURITHERM thermostatic sequential mixer** (non-time flow).
- Adjustable temperature: cold water up to 39°C:
Maximum temperature limiter set at 39°C, can be adjusted.
- **Anti-scalding safety:** immediate shut-off if cold water supply fails.
- Thermal shocks are possible.
- **Flow rate 6 lpm** at 3 bar.
- Chrome-plated, tamperproof **ROUND shower head** with scale-resistant nozzle and automatic flow rate regulation.
- Integrated soap dish.
- Hygiene lever L. 100mm.
- Concealed fixings.
- Filters.

Valve pending TMV3 approval
under application BC1824



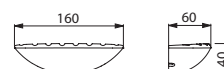
H9637

Additional fittings



Wall-mounted soap dish

- Concealed fixings.
- Dish fixed to wall by 4 screws.
- Chrome-plated Bayblend®.
- Matte or bright finish.



710500

Wall-mounted soap dish

Matte finish	710500
Bright finish	710501



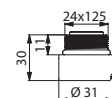
Anti-bacterial BIOFIL cartridge

- Single use cartridge filter, sterilising grade 0.1µm absolute-rated.
- Non-sterile for up to 62 days' use.
- Immediate protection against waterborne nosocomial infections.
- Filtration area: 1,400cm².
- Filtration flow rate: 12 lpm at 3 bar.
- Maximum upstream pressure at point-of-use: 5 bar.

More information on page 28.



30050A.10P



820025

Anti-bacterial BIOFIL cartridge

Without seal (10 per pack)	30050A.10P
Push-fit connector M24/125	820025

SECURITHERM MINERALSTEEL sequential panel with fixed shower head

With top inlets via in-line stopcocks, M½"	H9637
With concealed inlets via flexibles, M½"	H9638

Option: BIOFIL filter (see opposite). We recommend installing a floor trap (see page 155)



SECURITHERM: OPTIMISED ANTI-SCALDING SAFETY

To reduce the risk of bacterial development, hot water must be circulated at high temperatures in the system while reducing the risk of scalding at the point-of-use.

Automatic anti-scalding safety

SECURITHERM pressure-balancing technology, known as "EP" ensures instant and automatic safety. If the Cold Water supply fails, the Hot Water flow rate is reduced, removing the risk of scalding for the user. If the Hot Water supply fails, the Cold Water flow rate is likewise reduced. This avoids the risk of a cold shower which may result in a loss of balance or a fall.

Maximum temperature limiter

All DELABIE mixers are supplied with a pre-set maximum temperature limiter engaged to save time during installation. This can be adjusted by the installer. The user cannot increase the temperature above the maximum set temperature, reducing the risk of scalding.

Pressure-balancing

The EP pressure-balancing cartridge compensates for the unavoidable variations in pressure in the system (draw off at other outlets in the system, etc.) ensuring that the water temperature at the outlet remains constant.

The EP cartridge also removes the need for pressure regulators upstream of the mixer, which are complex and have large cavities and several membranes which are an additional source of niches where microbes can develop.

SECURITOUCH TECHNOLOGY: 100% SAFETY

DELABIE has placed an increased emphasis on safety to ensure superior comfort thanks to the new generation of Securitouch mixers.

In general, bodies of shower mixers are made from chrome-plated brass. Since metal is an effective heat conductor, it is very easy for people to burn themselves even when only brushing against the surface of the mixer. This may be the case when someone slips or loses their balance in the shower.

The interior of the SECURITHERM EP mixer has been specifically designed to reduce any risk of burns. The hot water flows from the inlet to the cartridge via a narrow copper tube, avoiding all contact with the brass exterior walls of the mixer.

COMFORT AND ERGONOMICS

Pressure-balancing and temperature stability

By maintaining a constant pressure between the Hot and Cold water inlets, SECURITHERM EP mixers provide users with a constant water temperature, removing any risk of a cold shower or scalding.

Ergonomic controls

Sculptured or solid control levers are easy to grip.

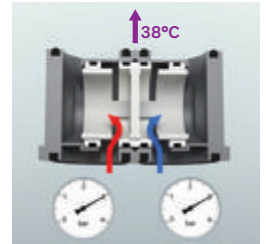
50% WATER AND ENERGY SAVINGS

Flow rate regulated at 9 lpm

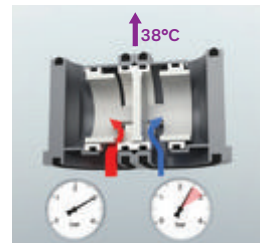
SECURITHERM EP shower mixers can achieve almost 50% water savings compared to other mixers (15 - 20 lpm). They are fitted with a flow rate regulator set at 9 lpm.

The water savings generated also allow energy savings and less equipment is required: lower capacity pipework and water heating equipment can be installed. Lower water volumes in the installation mean a lower risk of bacterial proliferation.

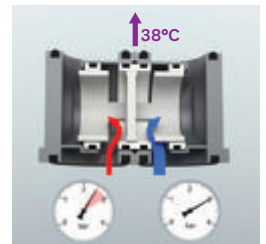
The principle of temperature regulation in EP cartridge



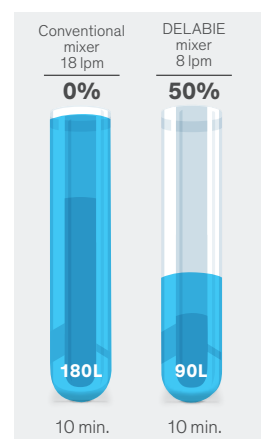
HW 3 bar/CW 3 bar at 38°C



HW 3 bar/CW 2.5 bar at 38°C



HW 2.5 bar/CW 3 bar at 38°C



Water savings per use



BIOSAFE: INFECTION CONTROL

Standing water in the mixer body and flexible shower hose at temperatures below 50°C is one of the factors that favour the development and multiplication of the microorganisms responsible for infections (*Legionella* spp., *Pseudomonas aeruginosa*, *Mycobacterium avium*, *Xenopi*, etc.).

The new generation of DELABIE SECURITHERM pressure-balancing mechanical shower mixers offers simple and effective solutions to reduce bacterial development.



Body and tube with smooth interiors + low volume of standing water

Low volume of standing water in the body

Unlike other mixers, the new generation of SECURITHERM EP mechanical shower mixers 2739EP/2439EP has specifically designed interiors that reduce the volume of standing water in the body and thus significantly reduce the risk of bacterial development. In effect, **water flows from the inlets to the cartridge via narrow tubes which can only hold a limited volume of water.** Moreover, the speed with which the water passes through the narrow tubes prevents excessive biofilm development.

Body with smooth interior

Most shower mixers have bodies with rough interiors. As a result, they provide niches where bacteria can adhere.

All the internal parts of DELABIE EP shower mixer bodies are completely smooth, reducing biofilm attachment and making it easier to treat.

A study in June 2010 by the BioPI laboratory and the Department for Biological Studies at Jules Verne University in Amiens, France showed that under constant conditions, **mixers with smooth interiors have *Pseudomonas aeruginosa* contamination levels 14 times lower than those mixers with rough bodies.**

Auto-draining device

DELABIE recommends installing its auto-draining device (ref. 880) on all shower mixers.

This device allows the shower head and flexible hose to drain automatically, essential in the fight against bacterial proliferation.

To be fully effective, DELABIE recommends connecting the auto-draining device to a short flexible shower hose (ref. 834T3 or 836T3, page 150).

Auto-draining shower kits are also available.

They include a mixer fitted with an auto-draining device, a short flexible hose 0.85m long with a shower head fixed on a tilting wall-support.

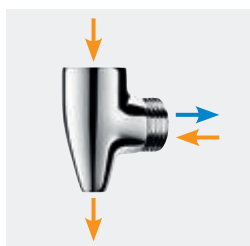
This latter ensures that the flexible hose is perfectly taut, avoiding standing water in the flexible hose loop (ref. 2739EPHYG/2739EPSHYG, page 131).

AND ALSO...

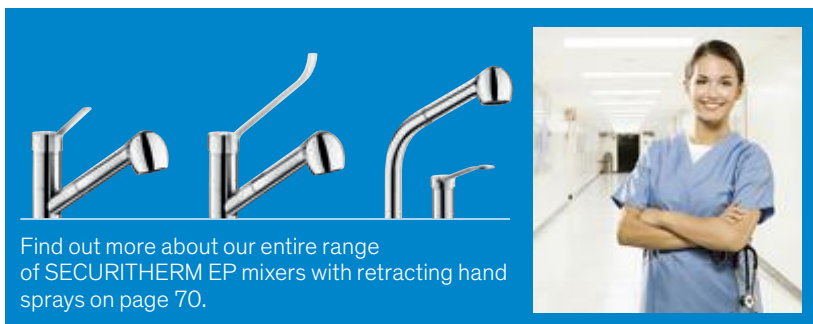
Robust

Chrome-plated brass body.

10-year warranty against any manufacturing defects



Auto-draining device



Find out more about our entire range of SECURITHERM EP mixers with retracting hand sprays on page 70.

**STOPCOCK INTEGRATED
IN THE CONNECTOR**

Mixer can be easily removed for disinfection
Anti-scalding safety can be checked

**BODY
WITH SMOOTH INTERIOR**

Infection control

**PURGE
INTEGRATED IN
THE CONNECTOR**

Non-return valves can
be checked
Full decontamination
is possible

**CARTRIDGE AND BODY
WITH LOW WATER
VOLUME**

Infection control

SECURITOUCH TECHNOLOGY

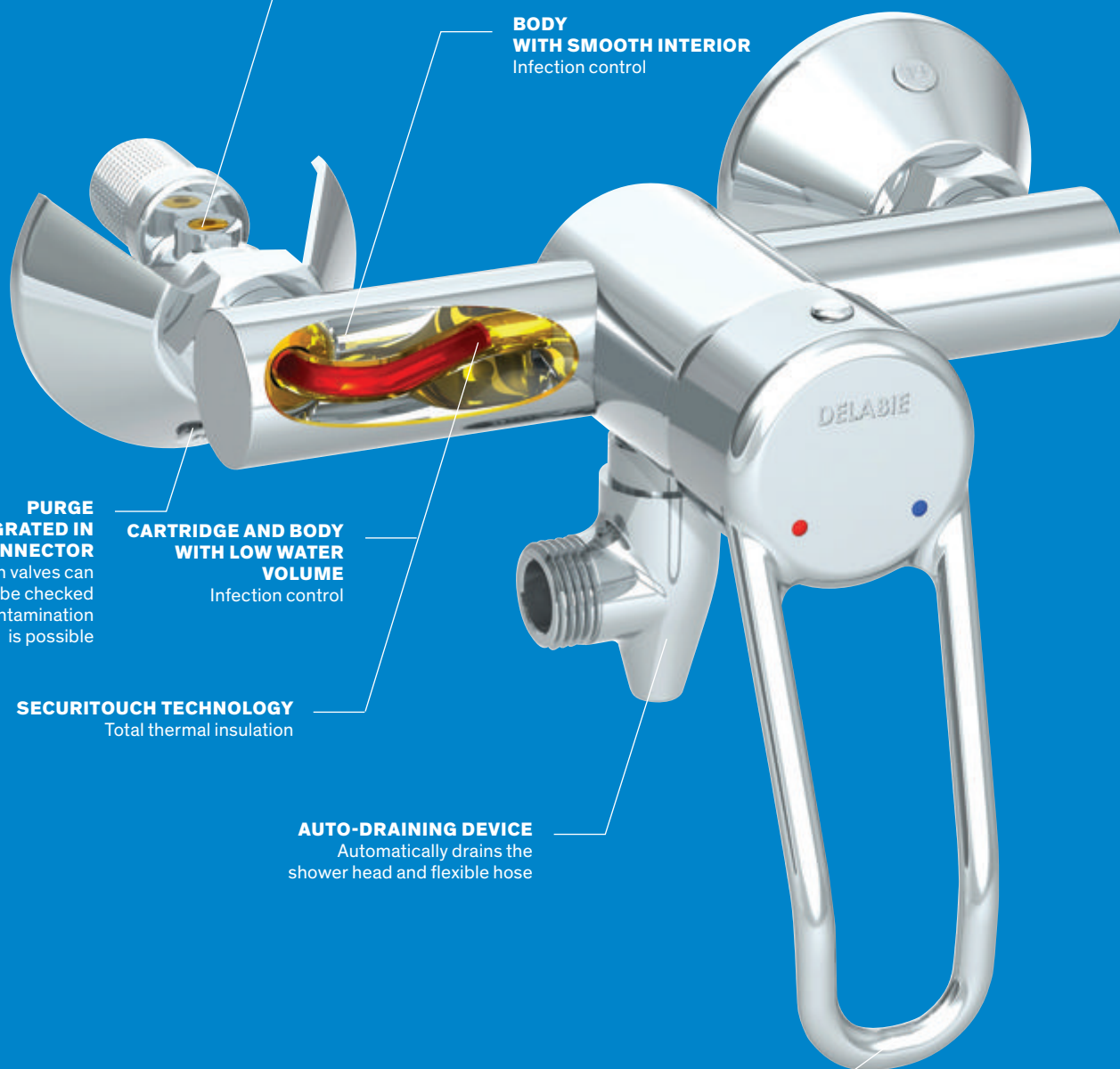
Total thermal insulation

AUTO-DRAINING DEVICE

Automatically drains the
shower head and flexible hose

**ERGONOMIC
SCULPTURED LEVER**

Easy to grip

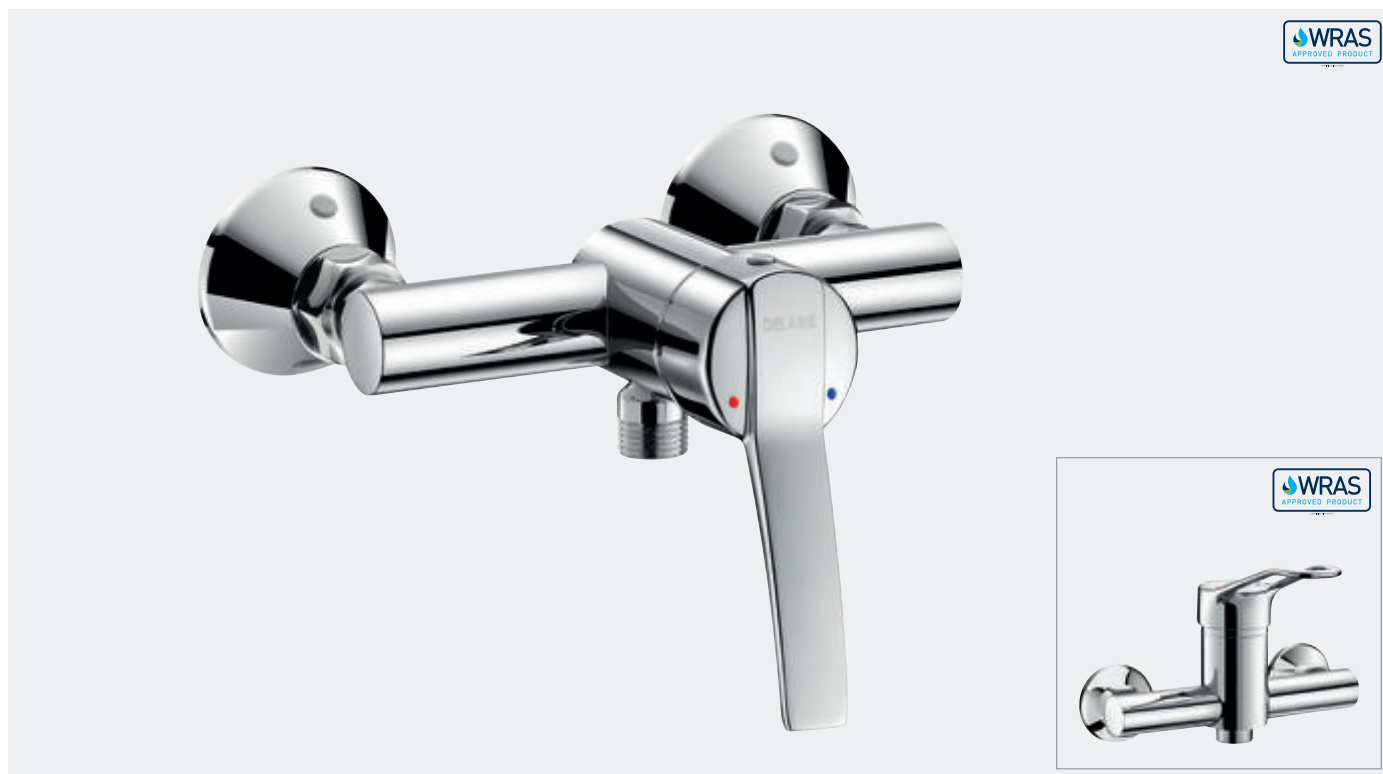




- **SECURITHERM** anti-scalding safety: hot water flow rate is reduced if cold water supply fails, pre-set maximum temperature limiter
- **Securitouch** hot water insulation: prevents any risk of burns when touching the mixer
- **BIOSAFE** infection control: body with smooth interior and low water volume
- **Water savings**: 50%

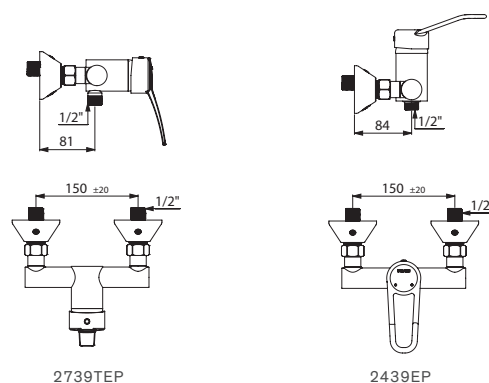
SECURITHERM EP Securitouch shower

Pressure-balancing mixer



- **Anti-scalding safety**: HW flow rate is reduced if CW supply fails.
- **Securitouch thermal insulation prevents burns.**
- Ø 40mm **pressure-balancing ceramic cartridge.**
- Pre-set maximum **temperature limiter.**
- **Flow rate regulated at 9 lpm.**
- **Body with smooth interior and low water volume** (reduces bacterial development).
- M $\frac{1}{2}$ " shower outlet with integrated non-return valve.
- Supplied with 2 offset wall connectors M $\frac{1}{2}$ " M $\frac{3}{4}$ " (see page 152).

Also available with conventional cartridge (see page 136)



2739TEP

2439EP



Low water volume
+ Smooth interior
+ Thermal insulation

SECURITHERM EP Securitouch shower	
Offset STOP/PURGE connectors	
Low sculptured control lever	2739EP
Low solid control lever	2739TEP
High sculptured control lever	2439EP
Offset standard connectors	
Low sculptured control lever	2739EPS
Low solid control lever	2739TEPS
High sculptured control lever	2439EPS

Options: Auto-draining device (see page 152)
 Hydrotherapy accessories (see pages 148 - 149)
 BIOFIL shower head with integrated filter (see page 148)
 Other connectors available (see pages 152 - 153)



- **SECURITHERM** anti-scalding safety: hot water flow rate is reduced if cold water supply fails, pre-set maximum temperature limiter
- **Securitouch** hot water insulation: prevents any risk of burns when touching the mixer
- **BIOSAFE** infection control: body with smooth interior and low water volume
- **Water savings**: 50%

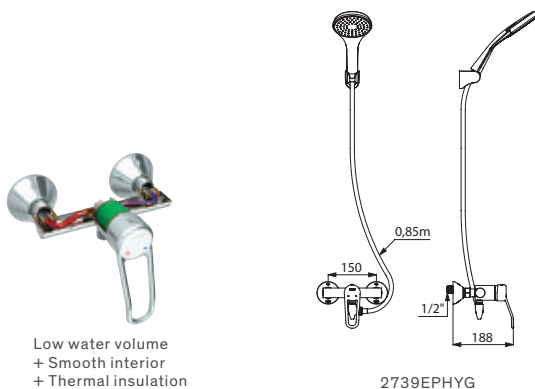
SECURITHERM EP auto-draining shower kit

With Securitouch pressure-balancing shower mixer



Shower kit with auto-draining device includes:

- **Mixer** with Ø 40mm **pressure-balancing** ceramic cartridge:
 - **Anti-scalding safety**: HW flow rate is reduced if CW supply fails.
 - **Securitouch thermal insulation prevents burns.**
 - Pre-set maximum **temperature limiter.**
 - **Flow rate regulated at 9 lpm.**
 - **Body with smooth interior and low water volume.**
 - M1/2" shower outlet with integrated non-return valve.
- Shower head with flexible hose and chrome-plated wall-mounted support.
- **Auto-draining device** FM1/2" automatically drains the flexible and shower head (see page 152).



Low water volume
+ Smooth interior
+ Thermal insulation

2739EPHYG

SECURITHERM EP Securitouch auto-draining shower kit

Offset STOP/PURGE connectors	2739EPHYG
Offset standard connectors	2739EPSHYG

Options: BIOFIL shower head with integrated filter (see page 148)
 Soap dishes (see page 147), floor traps (see page 155)
 Other connectors available (see pages 152 - 153)

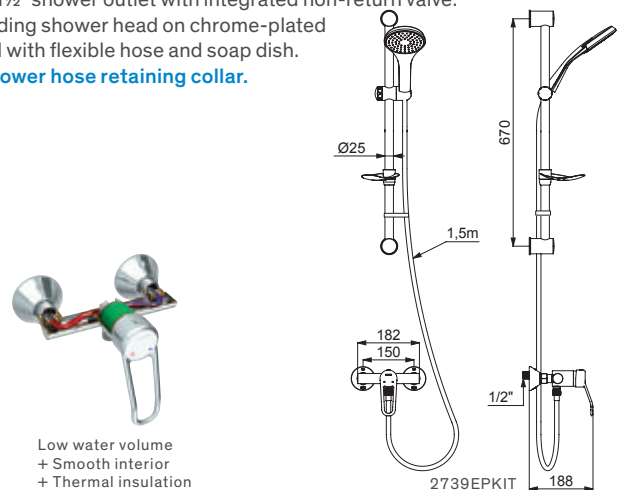
SECURITHERM EP shower kit

With Securitouch pressure-balancing shower mixer



Shower kit includes:

- **Mixer** with Ø 40mm **pressure-balancing** ceramic cartridge:
 - **Anti-scalding safety**: HW flow rate is reduced if CW supply fails.
 - **Securitouch thermal insulation prevents burns.**
 - Pre-set maximum **temperature limiter.**
 - **Flow rate regulated at 9 lpm.**
 - **Body with smooth interior and low water volume.**
 - M1/2" shower outlet with integrated non-return valve.
- Sliding shower head on chrome-plated rail with flexible hose and soap dish.
- **Shower hose retaining collar.**



Low water volume
+ Smooth interior
+ Thermal insulation

2739EPKIT

SECURITHERM EP Securitouch shower kit

Offset STOP/PURGE connectors	2739EPKIT
Offset standard connectors	2739EPSKIT

Options: BIOFIL shower head with integrated filter (see page 148)
 Auto-draining device (see page 152), floor traps (see page 155)
 Other connectors available (see pages 152 - 153)



Mixers with ceramic cartridges for showers and baths

SHOWER AND BATH MIXERS 136



SHOWER KITS 138

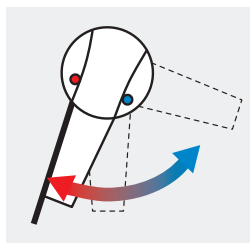


RECESSED SHOWER MIXERS 140





Anti-scalding safety



Anti-scalding maximum temperature limiter



Securitouch technology: tube is insulated from the body of the mixer



No risk of burns

ANTI-SCALDING SAFETY

Maximum temperature limiter

All DELABIE mixers are supplied with a pre-set maximum temperature limiter. The user cannot increase the temperature above the maximum set temperature, reducing the risk of scalding.

COMFORT

Temperature stability

Unlike conventional mechanical shower mixers, DELABIE mixers 2739/2439 are fitted with an exclusive solution that effectively reduces temperature variations if there are pressure fluctuations in the system.

A comparison of the behaviour of standard mechanical mixers and DELABIE mixers based on pressure changes in the system:

	Mixed water temperature variations		
	HW: 3 bar CW: 3 bar	HW: 3 bar CW: 2 bar	HW: 2 bar CW: 3 bar
Standard mechanical mixers	38°C	48°C	28°C
DELABIE mechanical mixers ref. 2739/2439	38°C	39.5°C	36.5°C

However, these mixers do not have the precision of SECURITHERM thermostatic or EP mixers and they are not fitted with an anti-scalding failsafe (Hot Water shut-off if the Cold Water supply fails). The 2739/2439 mixers are an intermediate economic solution.

Reduced risk of Hot Water/Cold Water cross flow

On the new generation of DELABIE mechanical mixers, the hot water can only flow back into the cold water supply (or vice versa) if the pressure differential between the inlets is greater than 1 bar.

Therefore, the risk of cross flow between the Hot Water and Cold Water is very small, unlike other mixers.

As a result, the risk of bacterial proliferation is reduced. Moreover, this solution removes the need for non-return valves to be installed.

SECURITOUCH TECHNOLOGY: 100% SAFETY

DELABIE has placed an increased emphasis on safety thanks to its new generation of Securitouch mixers. In general, bodies of shower mixers are made from chrome-plated brass. Since metal is an effective heat conductor, it is very easy for people to burn themselves even when only brushing against the surface of the mixer. This may be the case when someone slips or loses their balance in the shower.

The interior of DELABIE mixers 2739/2439 has been specifically designed to reduce any risk of burns. The hot water flows from the inlet to the cartridge via a narrow copper tube, avoiding all contact with the brass exterior walls of the mixer.

BIOSAFE: INFECTION CONTROL

Standing water in the mixer body and flexible shower hose at temperatures below 50°C is one of the factors that favour the development and multiplication of the microorganisms responsible for infections (*Legionella* spp., *Pseudomonas aeruginosa*, *Mycobacterium avium*, *Xenopi*, etc.).

The new generation of DELABIE mechanical shower mixers 2739/2439 offers simple and effective solutions to reduce bacterial development.

Low volume of standing water in the body

Unlike other mixers, the new generation of mechanical shower mixers (2739/2439) has specifically designed interiors that reduce the volume of standing water in the body and thus significantly reduce the risk of bacterial development.

In effect, **water flows from the inlets to the cartridge via narrow tubes which can only hold a limited volume of water.**

Body with smooth interior

Most shower mixers have bodies with rough interiors. As a result, they provide niches where bacteria can adhere. **All the internal parts of DELABIE shower mixers 2739/2439 are completely smooth, reducing biofilm attachment and making it easier to treat.**

A study in June 2010 by the BioPI laboratory and the Department for Biological Studies at Jules Verne University in Amiens, France showed that under constant conditions, **mixers and taps with smooth interiors have *Pseudomonas aeruginosa* contamination levels 14 times lower than those mixers and taps with rough bodies.**

Auto-draining device

DELABIE recommends installing its auto-draining device (ref. 880) on all shower and shower-bath mixers. This device allows the shower head and flexible hose to drain automatically, essential in the fight against bacterial proliferation.

To be fully effective, DELABIE recommends connecting the auto-draining device to a short flexible shower hose (ref. 834T3 or 836T3, page 150).

Auto-draining shower kits are also available.

They include a mixer fitted with an auto-draining device, a short flexible hose L. 0.85m long with a shower head fixed on a tilting wall support.

The latter ensures that the flexible hose is perfectly taut, avoiding standing water in the flexible hose loop (ref. 2739HYG/2539HYG, pages 138 - 139).

50% WATER AND ENERGY SAVINGS

Flow rate regulated at 9 lpm

DELABIE shower mixers can achieve almost 50% water savings compared to other mixers (15 - 20 lpm). They are fitted with a flow rate limiter set at 9 lpm. User comfort is optimised, while reducing water consumption.

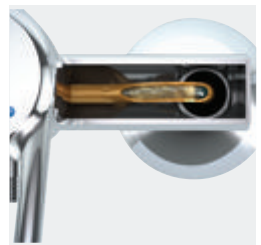
The water savings generated also allow energy savings, and less equipment is required: lower capacity pipework and water heating equipment can be installed. Lower water volumes in the installation mean a lower risk of bacterial proliferation.

AND ALSO...

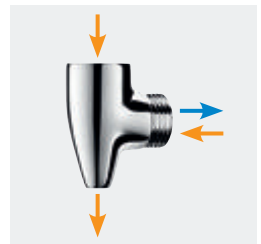
Robust

Chrome-plated brass body.

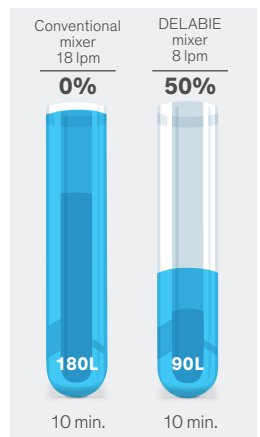
10-year warranty against any manufacturing defects.



Body and tubes with smooth interiors + low volume of standing water



Auto-draining device



Water savings per use

DELABIE / Mixers with ceramic cartridges



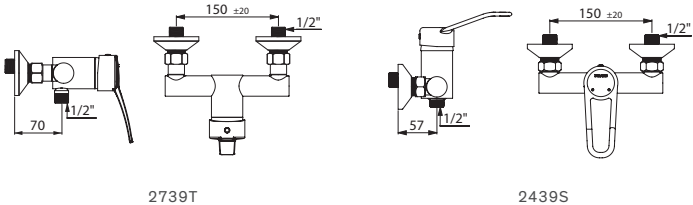
- **Securitouch** hot water insulation: prevents any risk of burns when touching the mixer
- **BIOSAFE** infection control: body with smooth interior and low water volume
- **Water savings**: 50%

Securitouch shower mixer

Mechanical mixer, body with smooth interior



- **Securitouch thermal insulation prevents burns.**
 - Ø 40mm ceramic cartridge.
 - Pre-set maximum **temperature limiter**.
 - **Flow rate regulated at 9 lpm.**
 - **Body with smooth interior and low water volume** (reduces bacterial development).
 - M1/2" shower outlet with integrated non-return valve.
 - Supplied with 2 offset wall connectors M1/2" M3/4" (see page 152).
- Also available with pressure-balancing cartridge (see page 130)



Securitouch shower mixer	
Offset STOP/PURGE connectors	
Low sculptured lever	2739
Solid sculptured lever	2739T
High sculptured lever	2439
Offset standard connectors	
Low sculptured lever	2739S
Solid sculptured lever	2739TS
High sculptured lever	2439S

Options: Auto-draining device (see page 152)
Hydrotherapy accessories (see pages 148 - 149)
BIOFIL shower head with integrated filter (see page 148)
Other connectors available (see pages 152 - 153)



Low water volume
+ Smooth interior
+ Thermal insulation



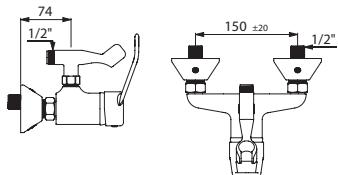
• **Ergonomic:** sculptured control lever is easy to grip

Shower mixer

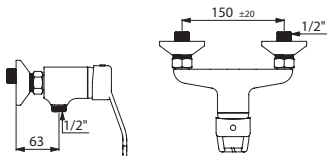
Mechanical mixer



- Ø 40mm ceramic cartridge.
- Pre-set maximum **temperature limiter**.
- **Flow rate regulated at 9 lpm.**
- M $\frac{1}{2}$ " shower outlet with integrated non-return valve. Top outlet supplied with cradle (ref. 844) or bottom outlet.
- Sculptured control lever.
- Supplied with 2 offset wall connectors M $\frac{1}{2}$ " M $\frac{3}{4}$ " (see page 152).



2538



2539S

Shower mixer

Offset STOP/PURGE connectors

Top outlet	2538
Bottom outlet	2539

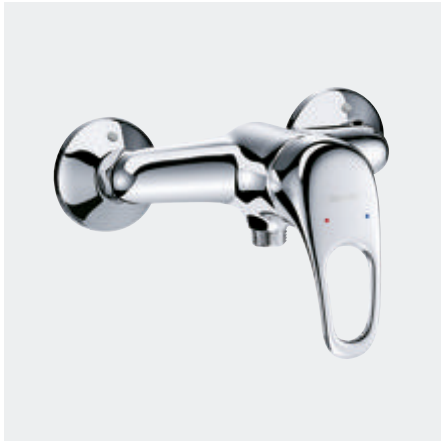
Offset standard connectors

Top outlet	2538S
Bottom outlet	2539S

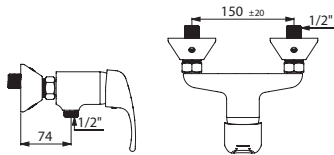
Options: Auto-draining device (see page 152)
Hydrotherapy accessories (see pages 148 - 149)
BIOFIL shower head with integrated filter (see page 148)
Other connectors available (see pages 152 - 153)

Shower mixer

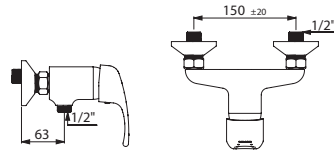
Mechanical mixer



- Ø 40mm ceramic cartridge.
- Pre-set maximum **temperature limiter**.
- **Flow rate regulated at 9 lpm.**
- M $\frac{1}{2}$ " shower outlet with integrated non-return valve.
- Sculptured control lever.
- Supplied with 2 offset wall connectors M $\frac{1}{2}$ " M $\frac{3}{4}$ " (see page 152).



2239



2239S

Shower mixer

Offset STOP/PURGE connectors	2239
Offset standard connectors	2239S

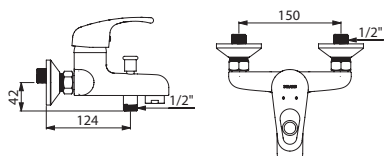
Options: Auto-draining device (see page 152)
Hydrotherapy accessories (see pages 148 - 149)
BIOFIL shower head with integrated filter (see page 148)
Other connectors available (see pages 152 - 153)

Shower-bath mixer

Mechanical mixer



- Ø 40mm ceramic cartridge.
- Pre-set maximum **temperature limiter**.
- **Automatic diverter with low pressure lock** maintains the shower position even if the flow rate is too low.
- M $\frac{1}{2}$ " shower outlet with integrated non-return valve.
- Sculptured control lever.
- Supplied with 2 offset wall connectors M $\frac{1}{2}$ " M $\frac{3}{4}$ " (see page 152).



2252S

Shower-bath mixer	2252S
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Options: Auto-draining device (see page 152)
Hydrotherapy accessories (see pages 148 - 149)
BIOFIL shower head with integrated filter (see page 148)
Other connectors available (see pages 152 - 153)



- **Securitouch** hot water insulation: prevents any risk of burns when touching the mixer
- **BIOSAFE** infection control: body with smooth interior and low water volume
- **Ergonomic**: sculptured control lever is easy to grip
- **Water savings**: 50%

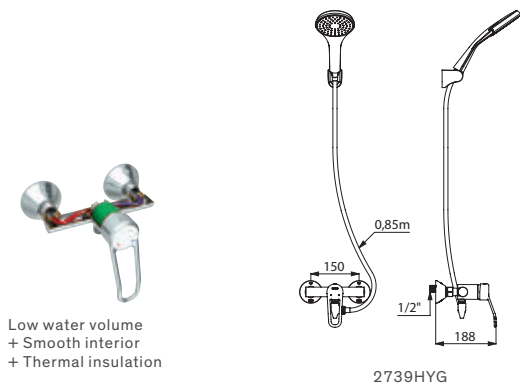
Securitouch auto-draining shower kit

With mechanical shower mixer, body with smooth interior



Shower kit with auto-draining device includes:

- Mixer with Ø 40mm ceramic cartridge, pre-set **temperature limiter**:
 - **Securitouch thermal insulation prevents burns.**
 - **Flow rate regulated at 9 lpm.**
 - **Body with smooth interior and low water volume.**
 - M $\frac{1}{2}$ " shower outlet with integrated non-return valve.
 - Supplied with 2 offset wall connectors M $\frac{1}{2}$ " M $\frac{3}{4}$ " (see page 152).
- Shower head with flexible hose and chrome-plated wall-mounted tilting support.
- **Auto-draining device** FM $\frac{1}{2}$ " automatically drains the flexible hose and shower head (see page 152).



Securitouch auto-draining shower kit	
Offset STOP/PURGE connectors	2739HYG
Offset standard connectors	2739SHYG

Options: BIOFIL shower head with integrated filter (see page 148)
Soap dishes (see page 147), floor traps (see page 155)
Other connectors available (see pages 152 - 153)

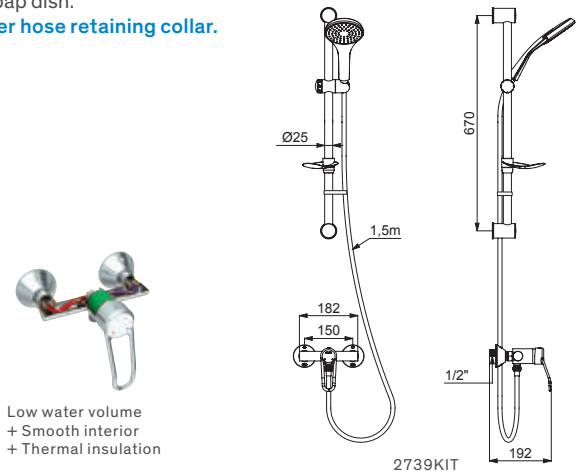
Securitouch shower kit

With mechanical shower mixer, body with smooth interior



Shower kit includes:

- Mixer with Ø 40mm ceramic cartridge, pre-set **temperature limiter**:
 - **Securitouch thermal insulation prevents burns.**
 - **Flow rate regulated at 9 lpm.**
 - **Body with smooth interior and low water volume.**
 - M $\frac{1}{2}$ " shower outlet with integrated non-return valve.
 - Supplied with 2 offset wall connectors M $\frac{1}{2}$ " M $\frac{3}{4}$ " (see page 152).
- Sliding shower head on a chrome-plated rail with flexible hose and soap dish.
- **Shower hose retaining collar.**



Securitouch shower kit	
Offset STOP/PURGE connectors	2739KIT
Offset standard connectors	2739SKIT

Options: BIOFIL shower head with integrated filter (see page 148)
Soap dishes (see page 147), floor traps (see page 155)
Other connectors available (see pages 152 - 153)



- **Ergonomic:** sculptured control lever is easy to grip
- **Water savings:** 50%

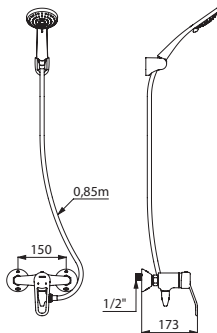
Classic auto-draining shower kit

With mechanical shower mixer



Shower kit with auto-draining device includes:

- Mixer with Ø 40mm ceramic cartridge, pre-set **temperature limiter:**
 - **Flow rate regulated at 9 lpm.**
 - M $\frac{1}{2}$ " shower outlet with integrated non-return valve.
 - Supplied with 2 offset wall connectors M $\frac{1}{2}$ " M $\frac{3}{4}$ " (see page 152).
- Shower head with flexible hose and chrome-plated wall-mounted tilting support.
- **Auto-draining device** FM $\frac{1}{2}$ " automatically drains the flexible hose and shower head (see page 152).



2539HYG

Auto-draining shower kit	
Offset STOP/PURGE connectors	2539HYG
Offset standard connectors	2539SHYG

Options: BIOFIL shower head with integrated filter (see page 148)
Soap dishes (see page 147), floor traps (see page 155)
Other connectors available (see pages 152 - 153)

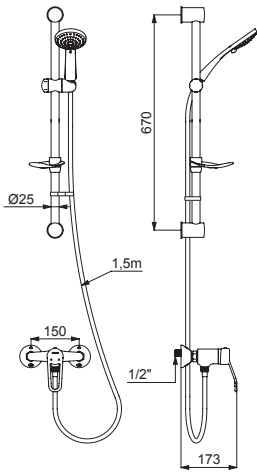
Classic shower kit

With mechanical shower mixer



Shower kit includes:

- Mixer with Ø 40mm ceramic cartridge, pre-set **temperature limiter:**
 - **Flow rate regulated at 9 lpm.**
 - M $\frac{1}{2}$ " shower outlet with integrated non-return valve.
 - Supplied with 2 offset wall connectors M $\frac{1}{2}$ " M $\frac{3}{4}$ " (see page 152).
- Sliding shower head on a chrome-plated rail with flexible hose and soap dish.
- **Shower hose retaining collar.**



2539KIT

Shower kit	
Offset STOP/PURGE connectors	2539KIT
Offset standard connectors	2539SKIT

Options: BIOFIL shower head with integrated filter (see page 148)
Soap dishes (see page 147), floor traps (see page 155)
Other connectors available (see pages 152 - 153)



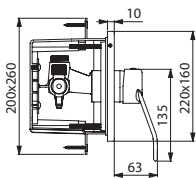
- **Anti-scalding safety:** pre-set maximum temperature limiter
- **Vandal-resistant:** chrome-plated solid brass, concealed fixings
- **Ergonomic:** sculptured or solid control levers are easy to grip

Recessed shower mixer

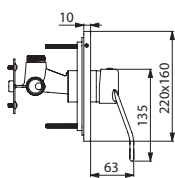
With waterproof housing



- **Waterproof recessing housing** behind a bright polished stainless steel wall plate 160 × 220mm.
- Adjustable recessing depth 10 - 30mm.
- Mixer with Ø 40mm ceramic cartridge.
- Pre-set maximum **temperature limiter**.
- Sculptured control lever.
- Order a wall-mounted outlet or shower head (see opposite and page 153).



790BOX+2543



2543

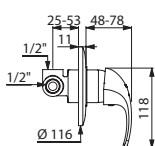
Shower mixer without shower head in a waterproof housing	790BOX + 2543
Options: Floor traps (see page 155), fixed shower head (see opposite)	

Recessed shower mixer



- Adjustable wall plate Ø 116mm.
- Mixer with Ø 40mm ceramic cartridge.
- Pre-set maximum **temperature limiter**.
- Solid control lever.
- Order a wall-mounted outlet or shower head (see opposite and page 153).

This mixer does not have a waterproof recessing housing. The installer must ensure that the recessing area is waterproof and can drain away any leaks or condensation (see installation guide).



2443

Wall-mounted, recessed shower mixer	2443
Options: Floor traps (see page 155), fixed shower head (see opposite)	



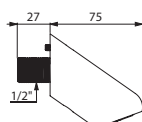
- **BIOSAFE** infection control: systematically drains after use preventing water stagnation
- **Scale-resistant nozzle with no grid**: no impurity retention
- **Water savings**: automatic flow rate regulator integrated in the shower head
- **Vandal-resistant**: tamperproof, chrome-plated solid brass, concealed fixings

TONIC JET

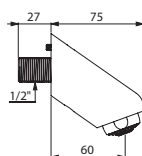
Scale-resistant shower head



- Scale-resistant, recessed fixed shower head.
- **Scale-resistant and ligature-resistant nozzle**: shower head systematically drains after use (no impurity or water retention).
- Rain effect grid ref. 712000GR: recommended for small, raised shower trays.
- **Flow rate 6 lpm** at 3 bar.
- **Automatic flow rate regulator**.
- Chrome-plated solid brass.
- Fixed with hidden blocking screw.
- M1/2" recessed inlet.



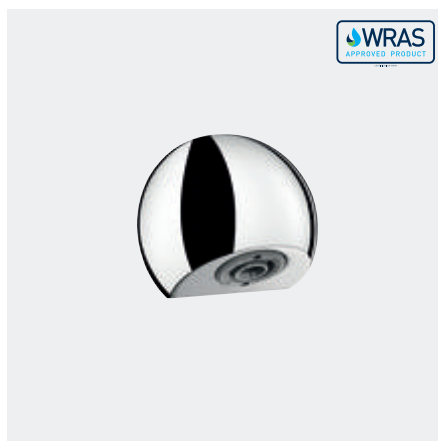
712000



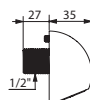
712000GR

ROUND

Scale-resistant shower head



- Scale-resistant, recessed fixed shower head.
- **Scale-resistant and ligature-resistant nozzle**: shower head systematically drains after use (no impurity or water retention).
- **Flow rate 6 lpm** at 3 bar.
- **Automatic flow rate regulator**.
- Chrome-plated solid brass.
- Fixed with hidden blocking screw.
- M1/2" recessed inlet.



709000

CF comfort diffuser

10 lpm



- Scale-resistant nozzle made from Hostaform®.
- Comfort spray at 10 lpm at 3 bar.
- Can be used instead of the nozzle in the ROUND and TONIC JET shower heads.
- Add "CF" to the end of the reference.



CF

TONIC JET shower head

Scale-resistant, adjustable jet	712000
Grid, rain effect	712000GR

ROUND shower head

709000

CF comfort nozzle

CF



Additional fittings for showers

SHOWER KITS 144



SHOWER ACCESSORIES 146



CONNECTORS 152



FLOOR TRAPS 155



GROUP THERMOSTATIC MIXING VALVES 156

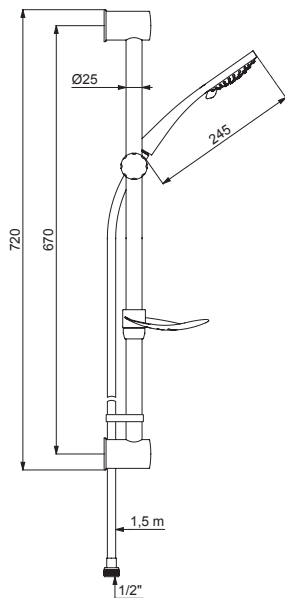


Shower kit Ø 25mm

Shower head with 3 jets



- Chrome-plated shower rail Ø 25mm, overall length 720mm with 670mm centres.
- Chrome-plated soap dish.
- Smooth, BICOLOR PVC flexible hose L. 1.50m.
- **Scale-resistant shower head** Ø 95mm.
- **3 jets:** rain effect, massage and rain effect + massage.
- **Shower hose retaining collar** (see page 149).



803

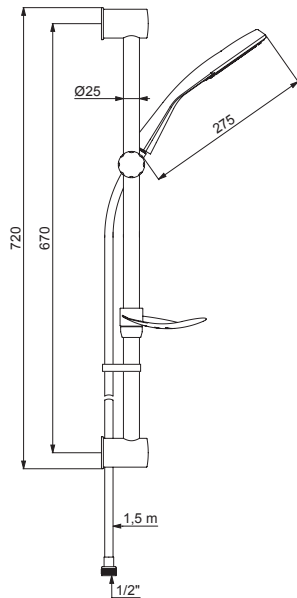
Shower kit Ø 25mm, 3 jets	803
---------------------------	-----

Shower kit Ø 25mm

Monojet shower head



- Chrome-plated shower rail Ø 25mm, overall length 720mm with 670mm centres.
- Chrome-plated soap dish.
- Smooth, BICOLOR PVC flexible hose L. 1.50m.
- **Scale-resistant shower head** Ø 119mm.
- **Monojet:** rain effect.
- **Shower head with non-slip grip.**
- **Shower hose retaining collar** (see page 149).



806

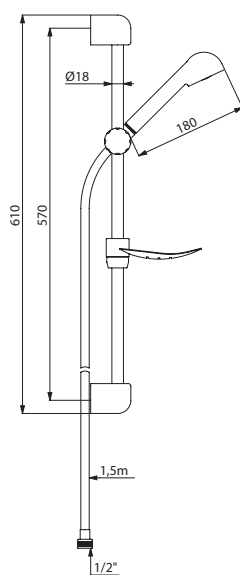
Shower kit Ø 25mm, monojet	806
----------------------------	-----

Shower kit Ø 18mm

Monojet shower head



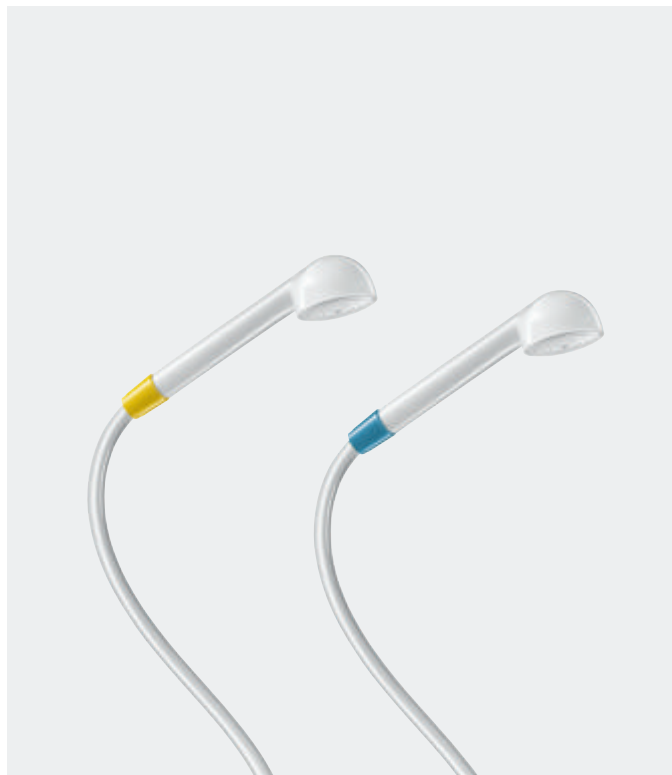
- Chrome-plated shower rail Ø 18mm, overall length 610mm with 570mm centres.
- Chrome-plated soap dish.
- Smooth, BICOLOR PVC flexible hose L. 1.50m.
- Chrome-plated ABS shower head Ø 60mm.
- **Monojet**: rain effect.



801

Disposable shower kit

With coloured conical unions



Disposable shower kit includes:

- 50 white PVC flexible hoses L. 1.50m with coloured ABS conical unions: 25 blue, 25 yellow.
- 50 white shower heads.
- **Monojet**: rain effect.

Ideal for hospitals:

Disposable kit:

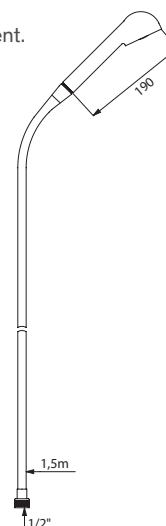
- Can be changed regularly (decontamination protocols).

PVC flexible hoses, smooth on the inside and outside:

- Easy to maintain.
- Fewer bacterial niches.

Coloured conical unions:

- Clear visual indication.
- Help to ensure correct shower kit replacement.



809.50P

Shower kit Ø 18mm, monojet

801

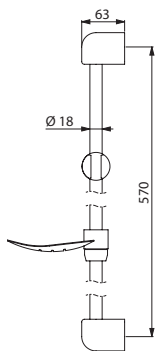
Disposable shower kit, 50 sets

809.50P

Chrome-plated shower rail Ø 18mm
With soap dish



- Overall rail length 610mm with 570mm centres.
- Riser rail for adjustable, tilting shower head holders.
- Supplied with a chrome-plated soap dish.



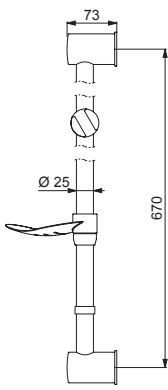
820

Chrome-plated rail Ø 18mm	820
---------------------------	-----

Chrome-plated shower rail Ø 25mm
With soap dish



- Overall rail length 720mm with adjustable centres up to 670mm.
- Riser rail for adjustable, tilting shower head holders.
- [Shower hose retaining collar](#) (see page 149).
- Supplied with a chrome-plated soap dish.

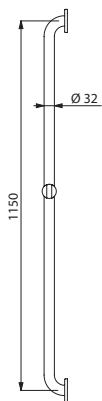


821

Chrome-plated rail Ø 25mm	821
---------------------------	-----

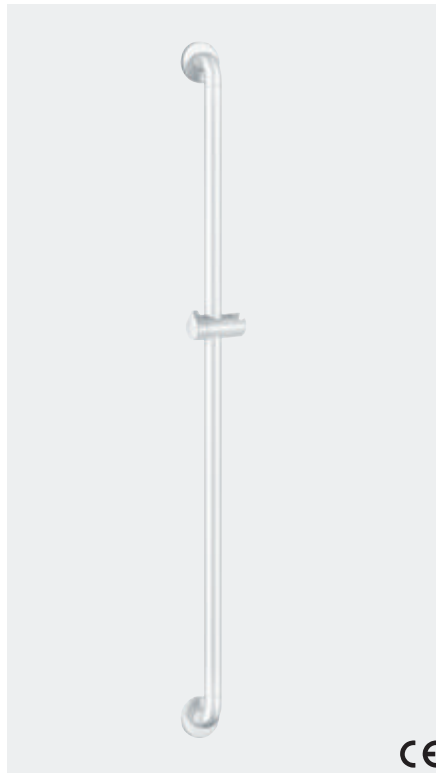
Stainless steel shower rail Ø 32mm

- Bacteriostatic 304 stainless steel tube.
- Uniform non-porous surface for easy maintenance and hygiene.
- **Chrome-plated sliding shower head holder with ergonomic locking ring.**
- **Possible to add a sliding soap dish** (see opposite).
- Height: L. 1.15m, Ø 32mm.
- Concealed fixings.
- CE marked.

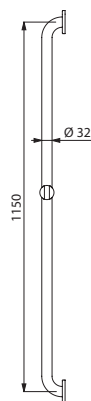


5460P2

Stainless steel shower rail Ø 32mm	
Bright polished stainless steel UltraPolish	5460P2
Satin finish stainless steel UltraSatin	5460S
Option: Clip-on sliding soap dish (see opposite)	

HR Nylon shower rail Ø 32mm

- High strength Polyamide (Nylon).
- Uniform non-porous surface for easy maintenance and hygiene.
- Good resistance to chemical products and cleaning.
- Anti-UV treatment.
- Warm to the touch.
- **HR Nylon sliding shower head holder with ergonomic locking ring.**
- **Possible to add a sliding soap dish** (see opposite).
- Height: L. 1.15m, Ø 32mm.
- Concealed fixings.
- CE marked.

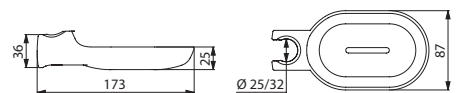


5460N

Nylon shower rail Ø 32mm	
	5460N
Option: Clip-on sliding soap dish (see opposite)	

Related products**Clip-on sliding soap dish**

- For stainless steel or Nylon shower rails.
- Clip-on sliding soap dish for shower rails Ø 25mm and Ø 32mm.
- Ideal for shower gel or soap.



510120/ 510120N

Clip-on soap dish	
Translucent	510120
White Nylon	510120N

Wall-mounted soap dish

- Concealed fixings.
- Support fixed to the wall by 4 screws.
- Chrome-plated Bayblend®.
- Matt or bright finish.



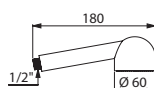
710500

Wall-mounted soap dish	
Matt finish	710500
Bright finish	710501

Monojet shower head Ø 60mm



- M½" shower head.
- Chrome-plated ABS.
- **Monojet**: rain effect.



810

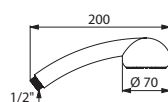
Monojet shower head Ø 60mm	810
----------------------------	-----

Monojet shower head Ø 70mm

Scale-resistant



- M½" shower head.
- Chrome-plated ABS.
- **Monojet**: rain effect.
- **Manual system for removing limescale.**



811

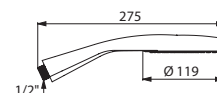
Monojet shower head Ø 70mm	811
----------------------------	-----

Monojet shower head Ø 119mm

Scale-resistant



- M½" shower head.
- Chrome-plated ABS.
- **Monojet**: rain effect.
- **Manual system for removing limescale.**
- **Non-slip grip.**



815

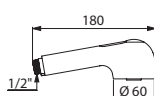
Monojet shower head Ø 119mm	815
-----------------------------	-----

Shower head with 2 jets Ø 60mm

Scale-resistant



- M½" shower head.
- Chrome-plated ABS.
- **2 jets with inverter**: rain effect and massage.
- **Manual system for removing limescale.**

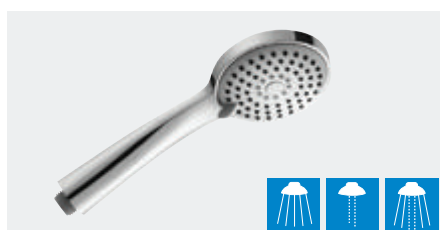


816

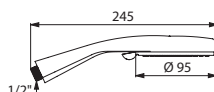
Shower head with 2 jets Ø 60mm	816
--------------------------------	-----

Shower head with 3 jets Ø 95mm

Scale-resistant



- M½" shower head.
- Chrome-plated ABS.
- **3 jets**: rain effect, massage and rain effect + massage.
- **Manual system for removing limescale.**



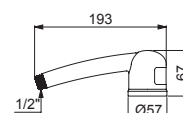
813

Shower head with 3 jets Ø 95mm	813
--------------------------------	-----

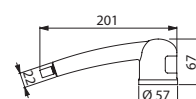
Anti-bacterial BIOFIL shower head



- **Shower head with integrated filter, rain effect.**
- Sterile or non-sterile anti-bacterial filter (for more information about the BIOFIL range, see pages 21 to 29).



30061.10P



30060.10P

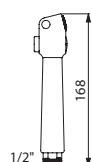
10 BIOFIL shower heads	
Threaded shower heads	
Sterile	20061.10P
Non-sterile	30061.10P
Clip-in shower heads	
Sterile	20060.10P
Non-sterile	30060.10P

Push-button hand spray

Downward jet



- **Push-button hand spray M $\frac{1}{2}$ "**.
- Chrome-plated brass and white polypropylene.
- Order a chrome-plated brass wall hook ref. 1585 to complete (see below).



434182

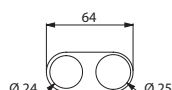
Push-button hand spray	434182
------------------------	--------

Shower hose retaining collar

For shower rails Ø 25mm



- Retaining collar for flexible hoses, for installation on shower rails Ø 25mm.
- **Retaining device:** prevents shower head from coming into direct contact with the floor or the floor trap (source of bacterial niches).



828

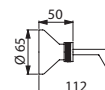
Retaining collar	828
------------------	-----

Adjustable, wall-mounted support

For shower heads



- Chrome-plated brass support.
- Adjustable.



840

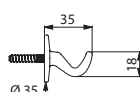
Adjustable, wall-mounted support	840
----------------------------------	-----

Wall-mounted hook

For push-button hand spray



- For surface mounting.
- Chrome-plated brass.
- For push-button hand spray ref. 434182 (see above).



1585

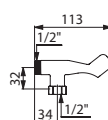
Wall-mounted hook	1585
-------------------	------

Cradle

For shower heads



- Chrome-plated brass support.
- Inlet FM $\frac{1}{2}$ ".



844

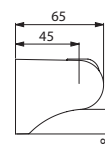
Cradle	844
--------	-----

Tilting, wall-mounted support

For shower heads



- Chrome-plated support.
- Tilting.
- Fixings supplied.



845

Tilting, wall-mounted support	845
-------------------------------	-----

Brass flexible shower hose
Flexible hose FF1/2", L. 1.50m



- Chrome-plated brass banding 8 × 0.2mm.
- Internal food-grade PVC tube conforms to European standard EN 1113.
- Stainless steel banded casing 20/100 thick.
- Chrome-plated conical brass connectors 1/2".
- Will withstand strain (50kg).
- Double interlock with non-twist connector for intensive use.



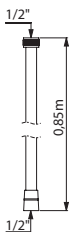
832T1

Brass shower hose	832T1
-------------------	-------

SILVER flexible shower hose
Smooth, PVC flexible hose FF1/2"



- Smooth, metal effect, reinforced food-grade PVC hose for easy maintenance and to reduce bacterial development.
- PVC reinforced pipe in 18-thread polyester conforms to European standard EN 1113.
- Tube interior is made from food-grade PVC.
- Chrome-plated conical brass connectors 1/2".
- Will withstand strain (50kg), bending and twisting.



836T3



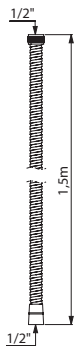
836T1

SILVER flexible shower hose	
Flexible hose L. 0.85m	836T3
Flexible hose L. 1.50m	836T1

BICOLOR flexible shower hose
Smooth, PVC flexible hose FF1/2"



- Smooth, metalloplastic food-grade PVC hose for easy maintenance and to reduce bacterial development.
- Thick PVC reinforce pipe in 12-thread polyester conforms to European standard EN 1113.
- Tube interior is made from food-grade PVC.
- Chrome-plated conical brass connectors 1/2".
- Will withstand strain (30kg), bending and twisting.



834T1

BICOLOR flexible shower hose	
Flexible hose L. 0.85m	834T3
Flexible hose L. 1.20m	834T4
Flexible hose L. 1.50m	834T1
Flexible hose L. 2.00m	834T2

Polyamide flexible shower hose

Black flexible hose FF1/2"



- Universal food-grade EPDM flexible hose L. 1.50m reinforced with Polyamide threads.
- Will withstand strain (50kg).
- Metal conical union 1/2" and milled metal union.



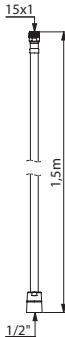
830T1

Nylon flexible hose

For retracting hand sprays



- Black flexible hose L. 1.50m with counterweight for retracting hand spray (see ref. 2597 page 84).
- Conical union F1/2" and cylindrical union M15 x 1.



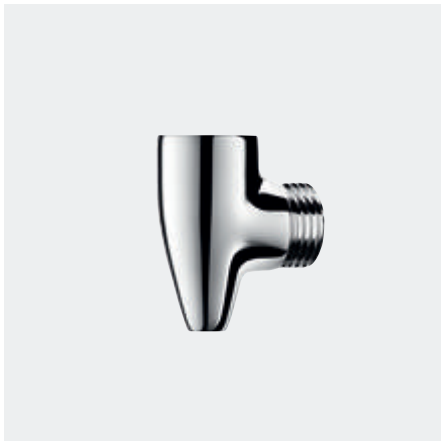
835T1

Black Polyamide flexible hose	830T1
-------------------------------	-------

Nylon flexible hose for retracting hand sprays	835T1
--	-------

Auto-draining device

For showers and shower-bath mixers



- Automatically drains the shower head and flexible hose.
- Prevents water stagnation and reduces bacterial proliferation (for more information, see page 135).
- Chrome-plated solid brass body with downstream purge.
- Inlet F1/2" with filter (to connect to the bottom outlet of the mixer).
- Outlet M1/2" (to connect to the flexible hose).

We recommend using the auto-draining device with a short flexible hose (ref. 834T3 or 836T3, page 150)



880

Auto-draining device	880
----------------------	-----

Offset STOP/PURGE connectors

Wall-mounted connectors M1/2" M3/4"



- Chrome-plated connectors, Ø 70mm, for wall-mounted mixers.
- Supplied in packs of 2.
- **Ideal for hospitals.**

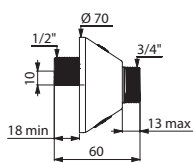
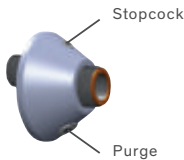
Connectors include:

Stopcocks:

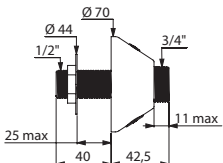
- Shut off the water supply so that the mixer can be easily removed for cleaning, disinfection or maintenance.
- Allow automatic anti-scalding failsafe to be checked on SECURITHERM thermostatic and EP pressure-balancing mixers.

Purge system:

Allows non-return valves to be checked on the respective mixer.



855027.2P



847327.2P

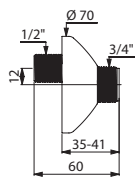
STOP/PURGE connectors	
Offset, L. 60mm	855027.2P
In-line, L. 62.5mm	847327.2P

Offset standard connectors

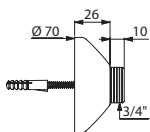
Wall-mounted connectors M1/2" M3/4"



- Chrome-plated connectors Ø 70mm, L. 60mm or 36mm for wall-mounted mixers.
- Solid brass.
- Supplied in packs of 2.



856027.2P

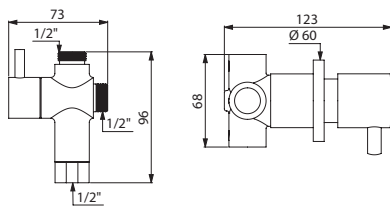


845527.2P

Wall-mounted connectors	
Offset std connector, L. 60mm	856027.2P
In-line fast-fix, L. 36mm	845527.2P
Alternative models available on request	

Diverter

- Allows user to choose between the shower head or the hand held shower head / hand spray.
- Chrome-plated brass.
- 1/2" inlet.



260021

260020

Diverter

Recessed FF1/2"	260020
Exposed FM1/2"	260021

Connectors with non-return valves
Chrome-plated brass connectors

- Prevents any backflow of contaminated water into the system.
- Prevents cross flow of cold and hot water.
- Supplied in packs of 2.



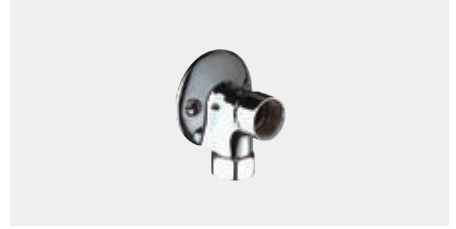
C291AH75



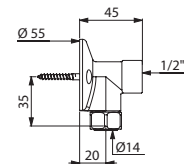
C151AH75

Connectors with non-return valve

For flexibles FM1/2"	C291AH75
For flexibles FM3/8"	C151AH75

Reinforced exposed connector
For M1/2" stopcocks

- Reinforced chrome-plated brass exposed connector.
- Ø 14mm stud nut.
- MF1/2".
- Fixed by 2 screws (supplied).

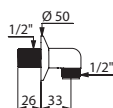


841315

Reinforced exposed connector	841315
-------------------------------------	---------------

Wall-mounted elbow outlet
For flexible shower hoses

- Wall-mounted elbow outlet.
- Solid brass.
- Wall plate Ø 50mm.
- MM1/2".

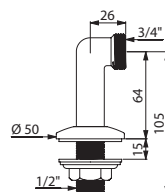


868121

Wall-mounted elbow outlet	868121
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Column connectors
For deck-mounted shower-bath mixers

- Chrome-plated solid brass connectors.
- M1/2" M3/4".
- Wall plate Ø 50mm.
- H. 64mm.
- Supplied in packs of 2.

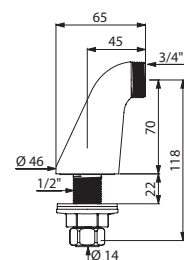


865127.2P

Column connectors	865127.2P
Alternative models available on request	

Deluxe column connectors
For deck-mounted shower-bath mixers

- Solid brass connectors.
- M1/2" M3/4".
- H. 70mm.
- Supplied in packs of 2.



870027.2P

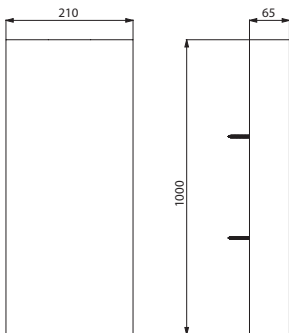
Deluxe column connectors	870027.2P
Alternative models available on request	

Cut-to-size extension

For aluminium shower panels



- For aluminium shower panel.
- Protects the pipework between the top of the shower panel and the ceiling.
- W. 210mm, H. 1,000mm.
- Extension can be cut to size.
- Aluminium epoxy-coated.



790152

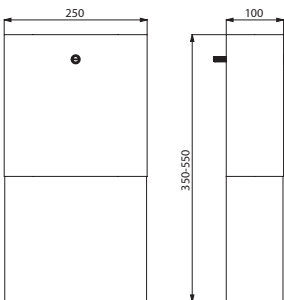
Aluminium extension	790152
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Telescopic extension

For stainless steel shower panels



- For stainless steel shower panel.
- Protects the pipework between the top of the shower panel and the ceiling.
- W. 250mm.
- Height adjustment from 350 to 550mm.
- Stainless steel polished satin finish.



790153

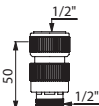
Stainless steel extension	790153
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Push-fit rapid STOP connector

For shower panels



- Push-fit rapid STOP connector.
- For attaching flexible hose to shower panel.



807792

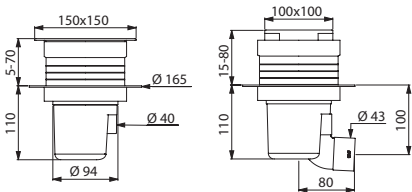
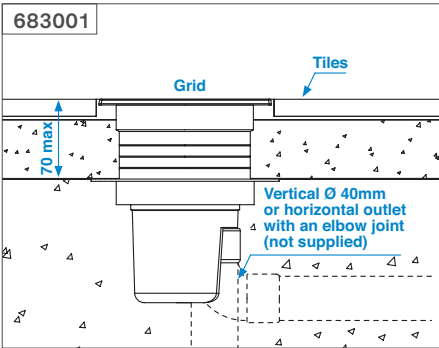
Push-fit rapid STOP connector	807792
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Adjustable height floor trap

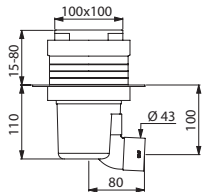
For tiled or concrete floors



- Flow rate 36 lpm (meets standards).
- Water level 50mm.
- Bright polished stainless steel plate and grid.
- Horizontal or vertical outlet Ø 43mm integrated into the height of the floor trap (saves height and space in all dimensions).
- Integrated waterproof plate to seal waterproof membrane.
- Withstands high temperatures: 60°C continuous, 85°C peak.
- Plunger with handle: easy to grip and easy to clean.
- Smooth PVC body (prevents build-up of impurities).
- Classified non-flammable (American certification UL94).
- Height adjusts with extension.
- Grid fixed by 2 stainless steel screws.



683001



682001UK

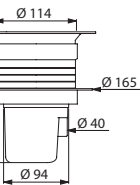
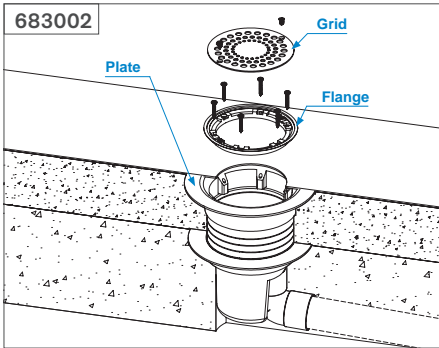
Floor trap for tiled or concrete floors	
150 × 150mm, Ø 40mm	683001
150 × 150mm, Ø 43mm	683001UK
100 × 100mm, Ø 40mm	682001
100 × 100mm, Ø 43mm	682001UK

Adjustable height floor trap

For soft or vinyl floors



- Flow rate 36 lpm (meets standards).
- Water level 50mm.
- Bright polished stainless steel plate and grid Ø 114mm.
- Horizontal or vertical outlet integrated into the height of the floor trap (saves height and space in all dimensions).
- Integrated waterproof plate to seal waterproof membrane.
- Withstands high temperatures: 60°C continuous, 85°C peak.
- Plunger with handle: easy to grip and easy cleaning.
- Smooth PVC body (prevents build-up of impurities).
- Classified non-flammable (American certification UL94).
- Height adjusts up to 85mm with extension.
- Grid fixed with 2 stainless steel screws.



683002

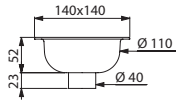
Floor trap for soft or vinyl floors Ø 114mm	
Outlet Ø 40mm	683002
Outlet Ø 43mm	683002UK

Floor trap

For tiled or concrete floors



- Flow rate 18 lpm.
- Water level 18mm.
- Brass body 140 × 140mm.
- Grid fixed by 1 stainless steel screw.
- PVC bell.
- Vertical outlet Ø 40mm (provide elbow for horizontal outlets).



684000

Floor trap 140 × 140mm	684000
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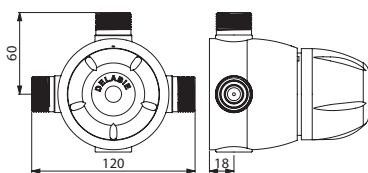
- **Automatic anti-scalding safety:** hot water shut-off if cold water supply fails
- **Comfort:** constant temperature stability regardless of variations in pressure or flow rate in the system
- **Solution against Legionnaires' disease:** conform to French circular of 22nd April 2002 and decree of 30th November 2005
- **Installation:** at the hot water system outlet (HW)

PREMIX SECURITY

Group thermostatic mixing valve for circulating loop



- Group thermostatic mixing valve for hot water circulating loops adjustable from 44°C-58°C.
- **Anti-scalding safety.**
- **Regulation of temperature variations.**
- **Filters and non-return valves can be accessed from the outside without removing the mechanism.**
- **Thermal shock with no specific lever needed** (push-button on the control knob).
- **Interchangeable cartridge with thermostatic cell.**
- High-resistance chrome-plated brass body DZR.
- Maximum hot water temperature: 85°C.
- Differential hot water / mixed water: 15°C mini.
- Pressure differences at the inlets: 1 bar maximum (0.5 bar recommended).
- Minimum pressure / maximum: 1 to 10 bar (1 to 5 bar recommended).
- Left hand side hot water inlet (red ring) and right hand side cold water inlet (blue ring).
- Mixed water outlet at the top (purple ring). For bottom outlet: unscrew / place lid at the top and outlet connector at the bottom.
- **15% energy savings:** optimised heat loss (comparison between a circulating loop at 55°C and a non-circulating system at 70°C).
- **Safety and prolongation of system life span** (Hot water at >65°C leads to premature aging within the system).
- **Maximum temperature limiter, can be adjusted by the installer.**
- **Reduced risk of scalding by reducing the temperature at the production outlet.**



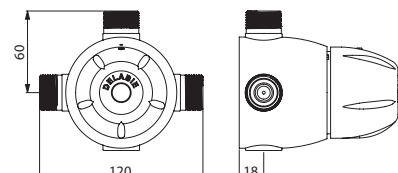
Description	Dimensions			Reference
	W	H	D	
PREMIX SECURITY 55, M ³ / ₄ "	120	60	18	731052
PREMIX SECURITY 90, M1"	160	80	23	731053
PREMIX SECURITY 140, M1 ¹ / ₄ "	180	90	26	731054
PREMIX SECURITY 190, M1 ¹ / ₂ "	196	98	26	731055

PREMIX COMFORT

Group thermostatic mixing valve for mixed water 32° - 42°C



- Group thermostatic mixing valve for mixed water distribution from 32° to 42°C.
- **Anti-scalding safety.**
- **Regulation of temperature variations.**
- **Filters and non-return valves can be accessed from the outside without removing the mechanism.**
- **Thermal shock with no specific lever needed** (push-button on the control knob).
- **Interchangeable cartridge with thermostatic cell.**
- High-resistance chrome-plated brass body DZR.
- Maximum hot water temperature: 85°C.
- Differential hot water / mixed water: 15°C minimum.
- Pressure differences at the inlets: 1 bar max (0.5 bar recommended).
- Minimum pressure / maximum: 1 to 10 bar (1 to 5 bar recommended).
- Left hand side hot water inlet (red ring) and right hand side cold water inlet (blue ring).
- Mixed water outlet at the top (purple ring). For bottom outlet: unscrew / place lid at the top and outlet connector at the bottom.
- **Maximum temperature limiter, can be adjusted by the installer.**
- **Reduced risk of scalding by reducing the temperature at the point-of-use.**
- Available in 2 sizes to replace the common existing models (standard exchange).



Description	Dimensions			Reference
	W	H	D	
PREMIX COMFORT 55, M ³ / ₄ "	120	60	18	731002
PREMIX COMFORT 90, M1"	160	80	23	731003
PREMIX COMFORT 140, M1 ¹ / ₄ "	180	90	26	731004
PREMIX COMFORT 190, M1 ¹ / ₂ "	195	98	26	731005
PREMIX COMFORT T2, M ³ / ₄ "	120	81	18	731200
PREMIX COMFORT T3, M1"	146	95	23	731300
PREMIX COMFORT T4, M1 ¹ / ₄ "	180	107	26	731400
PREMIX COMFORT T5, M1 ¹ / ₂ "	218	129	26	731500



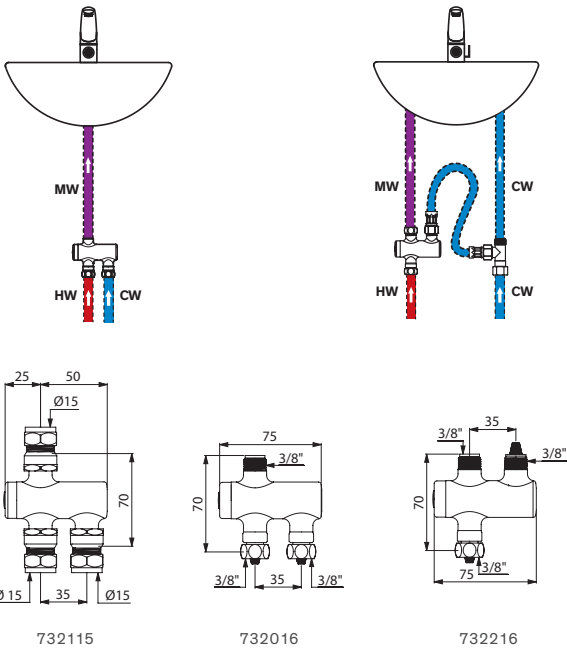
- **Anti-scalding safety**
- **Comfort:** regulates temperature variations for a stable temperature at the point-of-use
- **Installation:** upstream of taps and valves

PREMIX NANO

Thermostatic mixing valve



- Thermostatic mixing valve for mixed water distribution.
- **For 1 - 2 taps or 1 shower.**
- **Anti-scalding safety:** immediate shut-off if hot or cold water supply fails.
- Temperature pre-set at 38°C, can be adjusted by the installer 34 - 60°C.
- Brass body.
- **Filters and non-return valves.**
- Minimum flow rate to operate: 3 lpm.
- **Thermal shocks are possible.**



PREMIX NANO (KV 7 lpm)

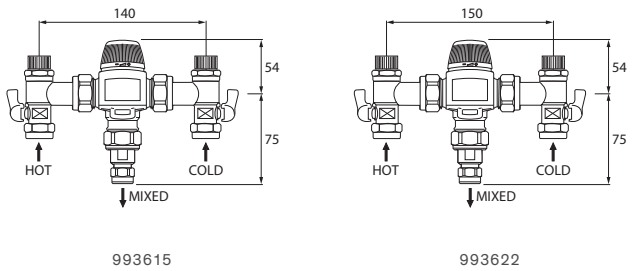
Nickel-plated body M $\frac{1}{2}$ ", 15mm	732115
Polished chrome body M $\frac{1}{2}$ ", 15mm	732116
Nickel-plated body, inlets F $\frac{3}{8}$ " and outlet M $\frac{3}{8}$ "	732012
Polished chrome body, inlets F $\frac{3}{8}$ " and outlet M $\frac{3}{8}$ "	732016
Polished chrome body, HW inlet F $\frac{3}{8}$ ", CW inlet M $\frac{3}{8}$ ", MW outlet M $\frac{3}{8}$ "	732216
Connection kit $\frac{3}{8}$ " for 732216	732515

ECONOMIX

Thermostatic mixing valve



- Thermostatic mixing valve for mixed water distribution.
- **For up to 4 taps or 3 showers** (depending on model).
- **Anti-scalding safety:** immediate shut-off if cold water supply fails.
- Temperature pre-set at 43°C.
- **Non-return valves and stainless steel mesh strainers included on Combi model.**
- Minimum flow rate to operate: 4 lpm.
- Recommended pressure: 0.2 - 5 bar.
- **Thermal shocks are possible.**



ECONOMIX Combi

15mm 15/3 Combi with angle lever ball valves	993615
22mm 22/3 Combi with angle lever ball valves	993622

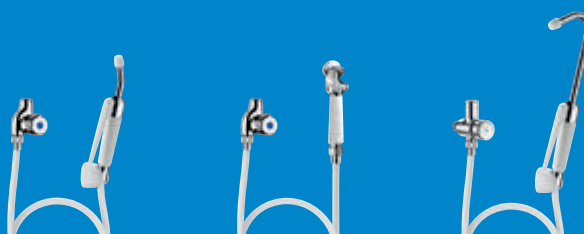
ECONOMIX Standard

15mm 15/3	983615
22mm 22/3	983622



Water controls for bed pan cleaners

COMPLETE
KITS
162



HAND
SPRAYS
164



ADDITIONAL
FITTINGS
165

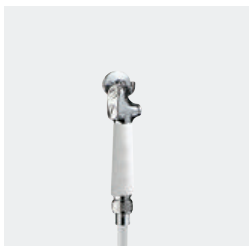




Bed pan cleaner set



HYGIÉNA hand spray



Push-button hand spray



CONTAMINATION PREVENTION

Non-return valve with integrated backflow prevention device

To prevent any risk of waste water flowing back into the main water supply, DELABIE controls for bed pan cleaners include a stopcock with an integrated backflow prevention device (a mechanism for replacing foul water with air if there is any backflow) and a non-return valve. There is complete protection against contamination.

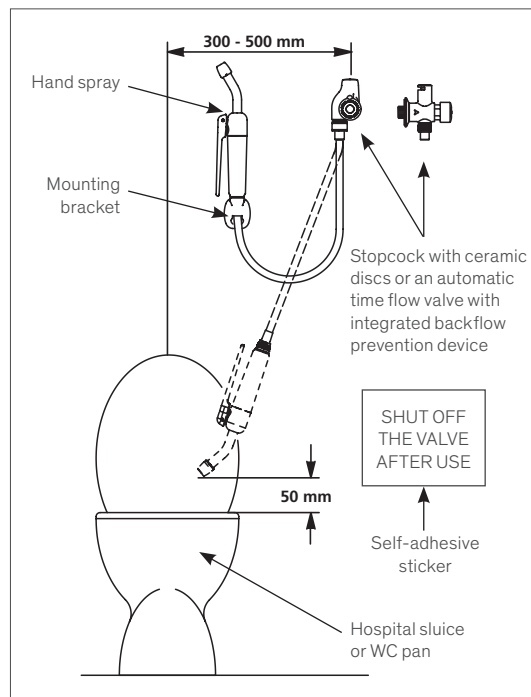
Safe installation

To comply with contamination safety regulations, the bed pan cleaner set must be installed so that the nozzle cannot come into contact with the sluice or WC pan (see diagram below).

The stopcock must be connected according to the type of supply:

- for recessed supply, use wall plate ref. 292015.2P for a better aesthetic.
- for exposed supply, use a reinforced connector ref. 841315.

Recommended pressure: minimum 1.5 bar up to 5 bar maximum.



GUARANTEED HYGIENE

DELABIE hand sprays are specifically designed to deliver a powerful jet without splashing, ensuring thorough cleaning for basins, WC pans and sluices.

BIOSAFE: INFECTION CONTROL

Smooth, opaque flexible hose

The white, reinforced flexible hoses used for the bed pan cleaners are opaque, preventing any development of germs or algae due to the light.

They are also completely smooth (inside and out) making them easy to clean and reducing bacterial retention.

EASY TO USE

There are two types of bed pan cleaners: those with a stopcock and those with automatic timed shut-off.

Bed pan cleaner with stopcock with ceramic discs

Pressurise the DELABIE bed pan cleaner with ceramic discs by opening the stopcock.

The water flows from the hand spray when the trigger is pressed (standard trigger-operated version), or when the trigger is released (model with inverted trigger). The model with the inverted trigger must be shut off at the stopcock after use to avoid the flexible hose remaining under constant pressure.

Bed pan cleaner with automatic timed shut-off

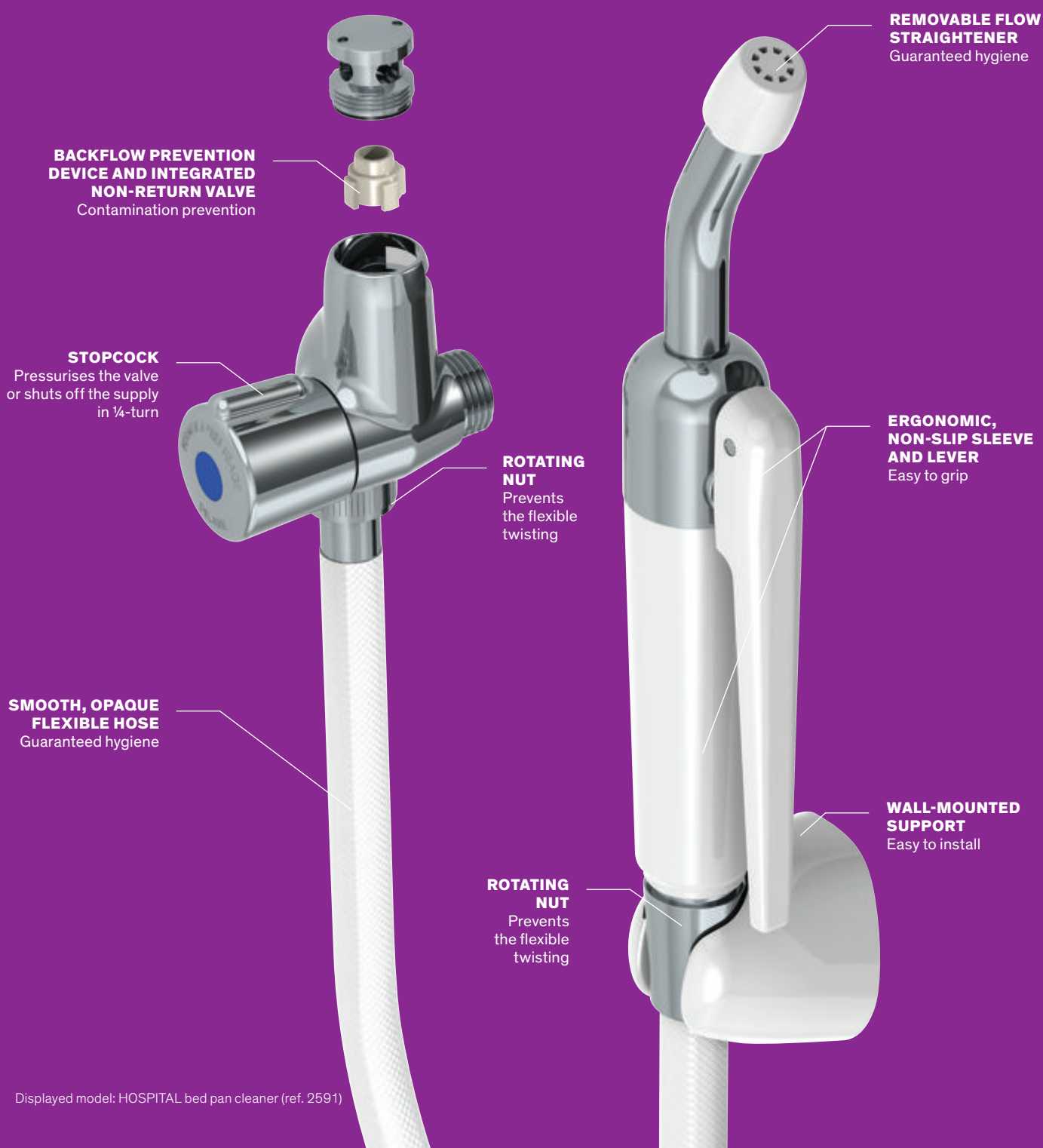
Pressurise the DELABIE bed pan cleaner with automatic timed shut-off by pressing the push-button. The water flows by pressing the trigger and shuts off automatically after 15 seconds.

AND ALSO...

Ergonomic

The hand spray sleeve and lever are made from reinforced polypropylene and are non-slip for a better grip.

10-year warranty against any manufacturing defects.

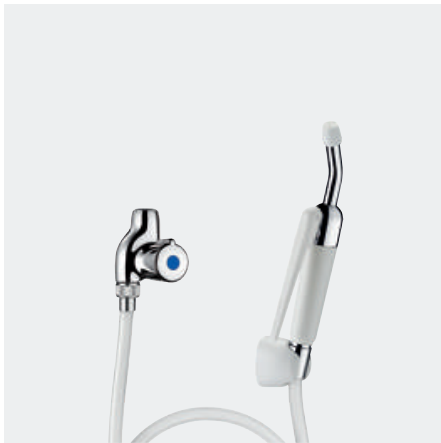




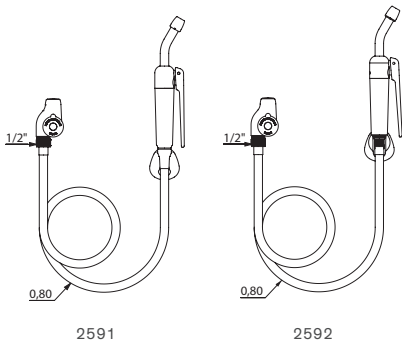
- **Hygiene:** hand spray specifically designed for cleaning basins, WC pans, sluices, etc.
- **Safety:** contamination protection via backflow prevention device and non-return valve
- **BIOSAFE** infection control: opaque flexible hose prevents the development of germs or algae due to light
- **Ergonomic:** non-slip sleeve and hand spray lever made from reinforced polypropylene

HOSPITAL bed pan cleaner

With stopcock



- Bed pan cleaner with **stopcock with ceramic discs. Integrated backflow prevention device and non-return valve.**
- White, opaque reinforced PVC flexible hose FF½", L. 0.8m.
- **HOSPITAL hand spray** with removable nozzle at a 30° angle.
 - Ref. 2591: standard trigger-operated hand spray.
 - Ref. 2592: inverted trigger-operated hand spray: **water flows when trigger is released;** shut off the stopcock after use to avoid the flexible remaining under constant pressure.
- White wall-mounted hook with screw.



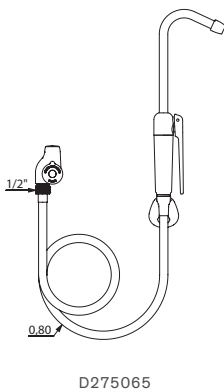
HOSPITAL bed pan cleaner with stopcock	
Standard hand spray	2591
Inverted hand spray	2592

HYGIÉNA bed pan cleaner

With stopcock



- Bed pan cleaner with **stopcock with ceramic discs. Integrated backflow prevention device and non-return valve.**
- White, opaque reinforced PVC flexible hose FF½", L. 0.8m.
- **HYGIÉNA hand spray** with removable nozzle at a 65° angle.
- Standard trigger-operated hand spray.
- White wall-mounted hook with screw.



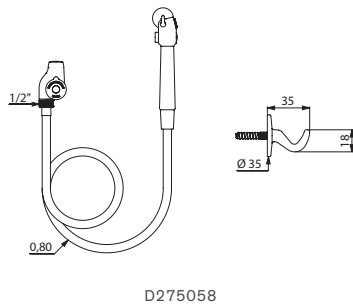
HYGIÉNA bed pan cleaner with stopcock	D275065
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Push-button bed pan cleaner

With stopcock



- Bed pan cleaner with **stopcock with ceramic discs. Integrated backflow prevention device and non-return valve.**
- White, opaque reinforced PVC flexible hose FF½", L. 0.8m.
- **Push-button hand spray.**
- Chrome-plated brass wall-mounted hook.



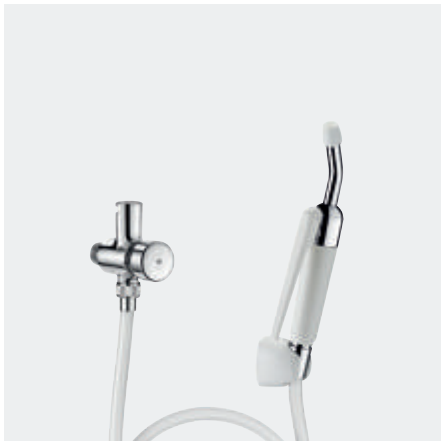
Push-button bed pan cleaner with stopcock	D275058
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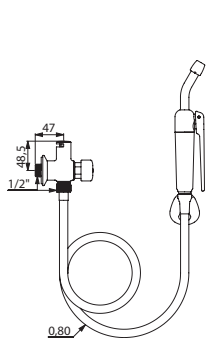
- **Hygiene:** hand spray specifically designed for cleaning basins, WC pans, sluices, etc.
- **Safety:** contamination protection via backflow prevention device
- **BIOSAFE** infection control: opaque flexible hose prevents the development of germs or algae due to light
- **Ergonomic:** non-slip sleeve and hand spray lever made from reinforced polypropylene

HOSPITAL bed pan cleaner

With time flow valve



- Bed pan cleaner with automatic time flow valve (15 seconds).
- **Integrated backflow protection device.**
- White, opaque reinforced PVC flexible hose FF½", L. 0.8m.
- **HOSPITAL hand spray** with removable nozzle at a 30° angle.
- Standard trigger-operated hand spray.
- White wall-mounted hook with screw.



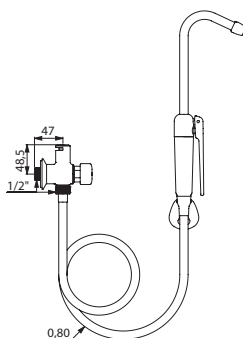
748057

HYGIÉNA bed pan cleaner

With time flow valve



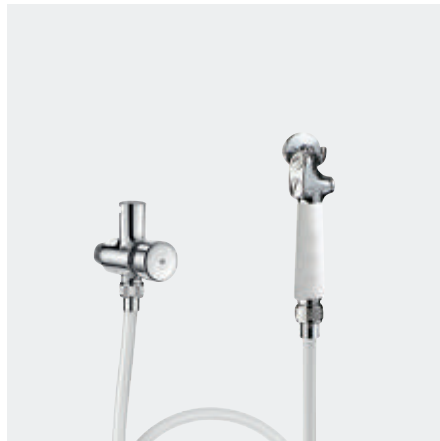
- Bed pan cleaner with automatic time flow valve (15 seconds).
- **Integrated backflow protection device.**
- White, opaque reinforced PVC flexible hose FF½", L. 0.8m.
- **HYGIÉNA hand spray** with removable nozzle at a 65° angle.
- Standard trigger-operated hand spray.
- White wall-mounted hook with screw.



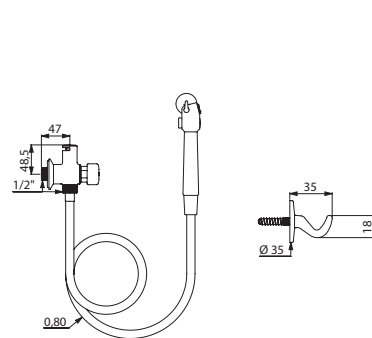
748065

Push-button bed pan cleaner

With time flow valve



- Bed pan cleaner with automatic time flow valve (15 seconds).
- **Integrated backflow protection device.**
- White, opaque reinforced PVC flexible hose FF½", L. 0.8m.
- **Push-button hand spray.**
- Chrome-plated brass wall-mounted hook.



748058

HOSPITAL bed pan cleaner with automatic shut-off	748057
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HYGIÉNA bed pan cleaner with automatic shut-off	748065
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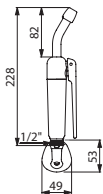
Push-button bed pan cleaner with automatic shut-off	748058
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HOSPITAL hand spray

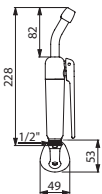
Bed pan cleaner jet, nozzle at 30° angle



- **HOSPITAL hand spray** with removable nozzle at a 30° angle.
- Ref. 434000: standard trigger-operated hand spray.
- Ref. 15846: inverted trigger-operated hand spray: **water flows when trigger is released**; shut off the stopcock after use to avoid the flexible remaining under constant pressure.
- Chrome-plated brass and white polypropylene.
- White wall-mounted hook with screw.



434000



15846

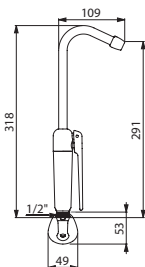
HOSPITAL hand spray	
Standard hand spray	434000
Inverted hand spray	15846

HYGIÉNA hand spray

Bed pan cleaner jet, nozzle at 65° angle



- **HYGIÉNA hand spray** with removable nozzle at a 65° angle.
- Standard trigger-operated hand spray.
- Chrome-plated brass and white polypropylene.
- White wall-mounted hook with screw.



434065

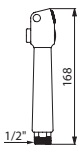
HYGIÉNA hand spray	434065
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Push-button hand spray

Downward jet



- **Push-button hand spray M½".**
- Chrome-plated brass and white polypropylene.
- Order with a chrome-plated brass wall hook ref. 1585 to complete (see *opposite*).

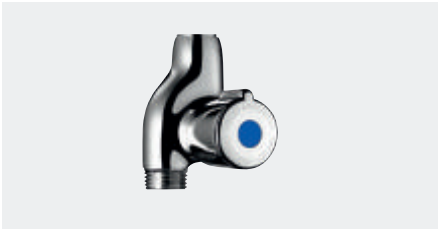


434182

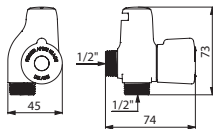
Push-button hand spray	434182
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M¹/₂" stopcock

Integrated backflow prevention device



- ¼-turn ceramic valve head.
- **Integrated backflow prevention device and non-return valve** (anti-pollution protection).
- Chrome-plated brass body.



158100

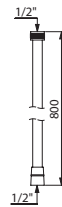
M ¹ / ₂ " stopcock	158100
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Reinforced flexible hose FF¹/₂"

White PVC flexible hose



- **Opaque, reinforced flexible hose FF¹/₂"** prevents the development of germs or algae.
- Rotating nuts FF¹/₂" prevent the flexible from twisting.
- Pre-mounted unions provide a waterproof seal.



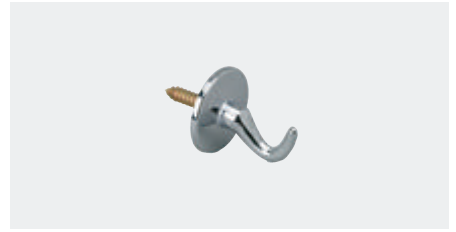
434080

Reinforced white PVC flexible hose FF¹/₂"

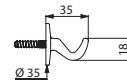
L. 0.80m	434080
L. 1.00m	1583
L. 1.25m	434125

Wall-mounted hook

For push-button hand spray



- For surface mounting.
- Chrome-plated brass.
- For push-button hand spray ref. 434182 (see *opposite*).

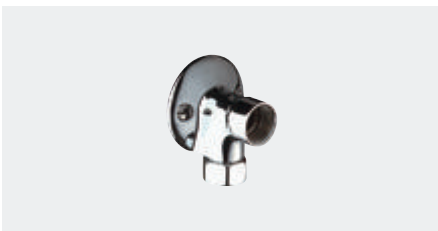


1585

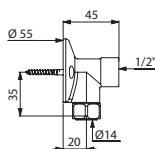
Wall-mounted hook	1585
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Reinforced exposed connector

For M¹/₂" stopcocks



- Reinforced chrome-plated brass exposed connector.
- Ø 14mm stud nut.
- MF¹/₂".
- Fixed by 2 screws (supplied).



841315

Reinforced exposed connector	841315
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Wall-mounted wall plate

Moulded



- Chrome-plated solid brass wall plate.
- Ø 60mm.
- Supplied in packs of 2.



292015.2P

Wall plate	292015.2P
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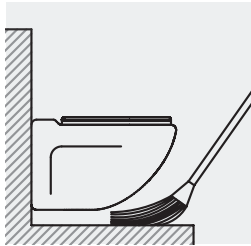
Frame systems

FRAME-SYSTEMS
FOR WCs
173

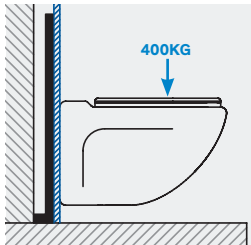


ADDITIONAL
FITTINGS
176

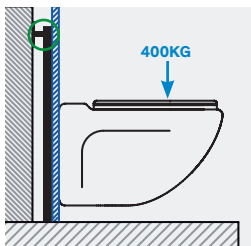




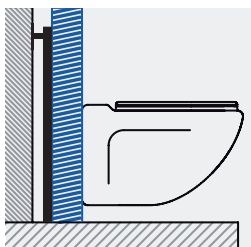
Easy to clean



Self-supporting TEMPOFIX 3



Wall-mounted TEMPOFIX 3



TEMPOFIX 3 for thick walls

TEMPOFIX 3: SPECIFICALLY DESIGNED FOR INTENSIVE USE IN PUBLIC AND COMMERCIAL PLACES

Easy to install

Installation and commissioning time should be taken into account when determining the total product cost, especially when installing a large number of products in public and commercial places.

The TEMPOFIX 3 frame system is delivered pre-mounted. The remaining components (flush tube and soil pipe) are assembled by clipping into place. It is quick and easy to install.

When fixing the self-supporting model of the TEMPOFIX 3 frame system, the floor quality is the main criteria: the concrete floor should withstand a minimum load of 350kg/m³.

It is possible to install on non-load bearing floors (parquet, floors with underfloor heating, etc.) thanks to the wall-mounted model which is fixed to load-bearing walls. DELABIE recommends a 25mm minimum wall thickness + tiling (= 2 × 12.5mm plasterboard or 1 × 25mm plasterboard).

Easy to adjust

Adjusting the pan height is simple: a mark indicates the 1-metre point from the floor surface on the frame system.

Vandal-resistant

The structure of the DELABIE frame system is made from epoxy coated steel. Its design provides it with an unrivalled resistance to deformation.

The standard NF D12-208 requires that frame systems flex no more than 5mm when subjected to a uniformly distributed load of 400kg.

The TEMPOFIX 3 does withstand 400kg loads and therefore meets this requirement.

It is delivered with large stable feet (for self-supporting installation) or with wall fixings (for wall-mounted installation).

Advantages of wall-hung WCs

The height of the pan can be adjusted to suit the needs of the user, from children to people with reduced mobility.

A wall-hung WC allows easy access to clean the floor below the WC pan.

Space saving

On average the TEMPOFIX 3 takes up 30% less space than other frame systems on the market. It is one of the most compact frame systems.

With no need for a cistern, it can be installed in the tightest of places such as service ducts.

The wall-anchoring bolts enable two TEMPOFIX 3 to be fixed back to back in a communal service duct (in Ladies and Gents toilets) without the need for a partition wall.

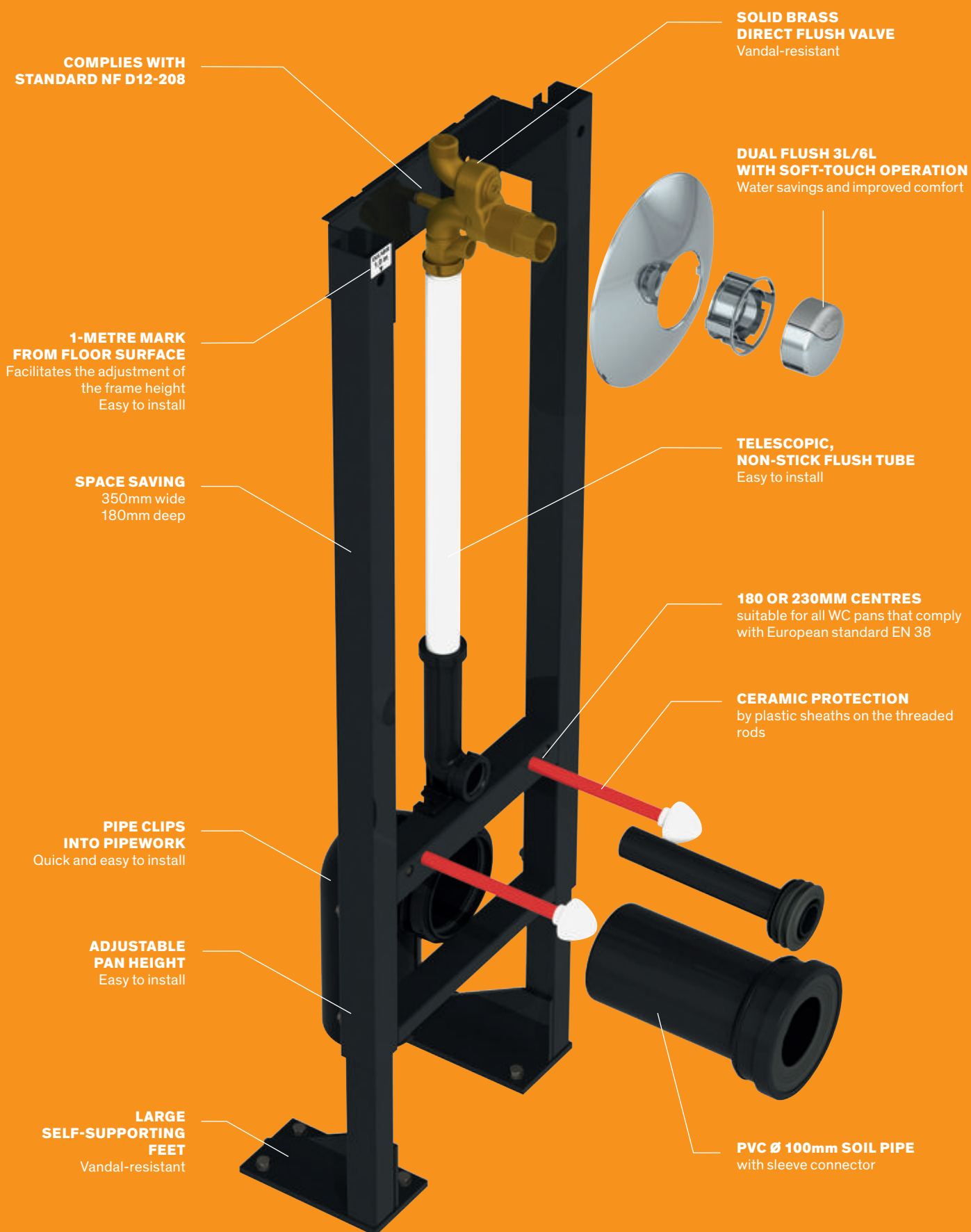
Optimised for stocking

Reduced frame weight and product packaging save space for stocking and are an advantage for being kept on construction sites.

Products suited to the needs of public and commercial places

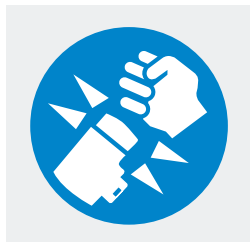
Increasingly in commercial environments, plasterboard walls are being replaced by gypsum blocks, brick, or even cinder blocks in order to improve the durability of the installations.

DELABIE has developed its range of TEMPOFLUX 2 direct flush valves, offering extended versions of the valves and frames so that they are better suited to thicker walls. Such an innovative installation would prove difficult with cisterns.





3L/6L dual flush



Vandal-resistant



Soft technology:
soft-touch operation

DIRECT FLUSH VALVES: SPECIFICALLY DESIGNED FOR INTENSIVE USE IN COMMERCIAL PLACES

The direct flush valve is specifically designed to meet the needs of highly frequented public facilities.

Efficient direct flush

The flush valve is connected directly to the water supply. Employing [the pressure from the system](#), the flush is more effective. There is [no delay](#) while the cistern refills. Direct flush is instantly available, even for successive flushes, which is ideal for [intensive use](#).

Hygiene

Since the flush is connected to the system, there is [no water stagnation, scale build-up or impurity deposits](#), factors that encourage the development of bacteria. The effective direct flush ensures the pan remains clean. With electronic sensor controls (TEMPOMATIC), [no manual contact is required](#).

Water savings and Ecolabels

Reinforced mechanisms reduce the risk of leaks. The TEMPOFLUX 2 range with [3L/6L dual flush](#) optimises water consumption. The volume can be [adjusted to 2L/4L](#) for ECO pans, achieving the highest performance standards for Ecolabels. *Additional information pages 16 - 19.*

Vandal resistant

The mechanisms and controls are [shockproof](#) and have no fragile plastic parts. The fixings are concealed.

Minimal servicing and easy to maintain

The self-cleaning mechanism is made from scale-resistant materials. Cartridges are standardised and are interchangeable. Access to the system is direct with no need to remove the valve.

Superior endurance

The mechanisms are [hard-wearing](#). The system is self-cleaning, which extends its [life span](#) to over [500,000 operations](#). DELABIE's water controls perform to the highest standards. Each model is subjected to endurance tests under extreme conditions in DELABIE's laboratories.

Comfort

The [acoustic level of the TEMPOFLUX 2 is low](#) and conforms to European standard EN 12541 class II. This range features [soft-touch operation](#) which is suitable for all types of users. Electronic versions avoid any manual contact and require no effort to operate.

Supply pipe diameters

The supply pipe diameters for direct flush are similar to cistern systems (*see opposite page*).

ADVANTAGES OF DIRECT FLUSH

VANDAL-RESISTANT:
shockproof mechanisms, concealed fixings

EASY AND INFREQUENT MAINTENANCE:
standardised cartridge can be changed without removing the valve, withstands up to 500,000 operations

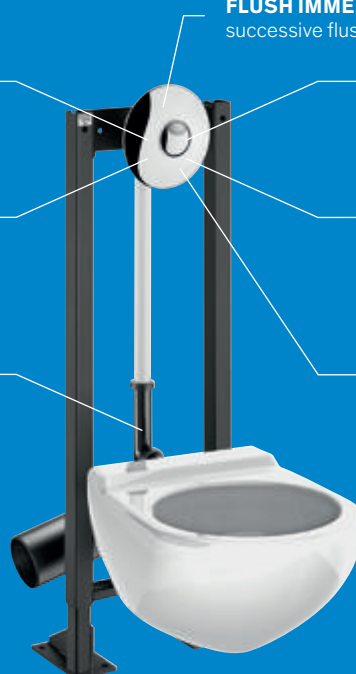
POWERFUL FLUSH:
uses the pressure of the system

FLUSH IMMEDIATELY AVAILABLE:
successive flushes are possible

WATER SAVINGS:
3L/6L dual flush, can be adjusted to 2L/4L

MINIMAL SERVICING:
scale-resistant mechanisms

HYGIENE:
no water stagnation, scale build-up or impurity deposits



CALCULATION RECOMMENDATIONS

Simultaneous use

We recommend the [following calculations to determine the number of direct flush valves](#). The flush timing is actually very short (7 seconds) and there is no refill time. As a result, the calculations are different to those for cistern flush valves. We recommend the following method:

Number of valves installed	Number of valves used simultaneously
3 valves	1 valve
4 - 12 valves	2 valves
13 - 24 valves	3 valves
25 - 50 valves	4 valves
> 50 valves	5 valves

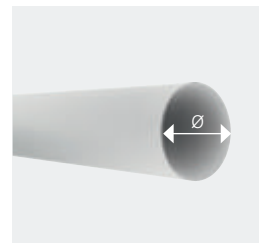
Calculation method

The French regulation bases the calculations on a flow rate of 1.5 L/sec. for direct flush valves. However, for non-domestic applications, it is highly recommended to refer to the manufacturers' guidelines. TEMPOFLUX models work perfectly well at 1 L/sec. Example showing the calculations for a block of 20 WCs fitted with direct flush valves: we anticipate that a maximum of 3 out of 20 will be activated simultaneously.

1 L/sec. x 3 flush valves = 3 L/sec.
The branch supply pipe diameter for the 20 WCs would be 2".



Operates at 1 L/sec.



THE CISTERN: DESIGNED FOR DOMESTIC USE

The cistern, designed for domestic use, is not suitable for coping with the needs of commercial buildings.

Fragile design

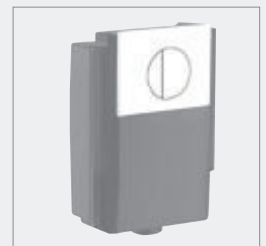
Made from plastic, the cistern and mechanisms are fragile. They are a source of leaks which are not always noticed immediately because they are inaudible and not easy to see. Cisterns are a primary source of wasted water in a system. For example, a small leak can cause losses of 220m³ or a total of 748€/year (cost of cold water m³: 3.40€, source : *centre d'information de l'eau, France*).

Difficult to service

Maintenance in commercial buildings is not easy: removal and access to the mechanism is difficult and increasingly regular interventions are required.

Lack of hygiene

Cistern systems are a source of bacterial niches: stored water in the cistern stagnates and can rapidly lead to the development of bacteria which then spread through the rest of the system.



Cisterns designed for domestic use

DISADVANTAGES OF CISTERNS FOR COMMERCIAL USE

TIME TAKEN TO REFILL THE TANK:
 immediate, successive flushes are not possible

FRAGILE:
 plastic mechanism and cistern

RISK OF LEAKS FROM THE CISTERN INTO THE PAN



DIFFICULT TO SERVICE:
 complicated access to mechanism, bottom of cistern inaccessible

LACK OF HYGIENE:
 stagnant water, scale deposits and ambient water temperatures lead to bacterial development

LIMITED FLUSH POWER:
 static pressure



TEMPOFIX 3 WITH TEMPOMATIC

Total hygiene

The TEMPOMATIC WC operates **with no manual contact** avoiding the spread of germs by hand. It flushes automatically should the user forget to do so voluntarily. The absence of a cistern avoids water stagnation, a major cause of bacterial development.

Comfort

The flush is activated with no manual contact and is, therefore, suitable for all types of users. The user can choose the operating mode:

- **Automatic:** flushes after the user leaves.
- **On demand:** by passing hand 10cm in front of the sensor.

Efficient direct flush

The flush valve is connected directly to the water supply. Employing **the pressure from the system**, the flush is more effective. There is **no delay** while the cistern refills. Direct flush is instantly available, even for successive flushes, which is ideal for intensive use.

Water savings and Ecolabels

Direct flush reduces the risk of leaks, unlike cisterns, where drips and leaks can go unnoticed and generate large water bills. **The flush volume can be adjusted to** achieve the highest performance standards for Ecolabels. *Additional information pages 16 - 19.*

Reliability

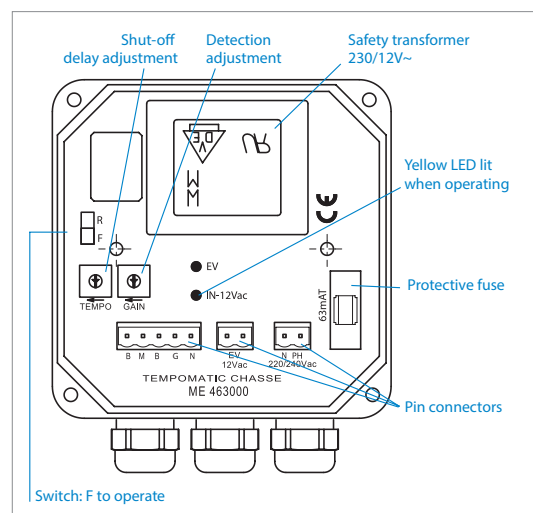
The solenoid valve is resistant to corrosion. The infrared sensor is water and shockproof. The PCB (printed circuit board) is protected with an anti-interference cable and provides anti-blocking security.

Vandal-resistant

The structure of the DELABIE frame system is made from epoxy coated steel. Its design provides it with an unrivalled resistance to flexing. It is delivered with large stable feet (for self-supporting installation) or with wall fixings (for wall-mounted installation).

Easy to install and maintain

The shut-off delay and detection distance are easy to adjust on the control unit. Maintenance is simplified with LEDs.



Technical characteristics TEMPOMATIC

Minimum volume	4L
Factory setting	6L
Maximum volume	12L
Base flow rate to calculate pipework	Q min.1 L/sec.
Recommended dynamic pressure	1 - 3 bar Min. pressure 1 bar
Inlet connections	F1" Internal Ø min. 26mm
Outlet connections	Ø 26/32mm
Operating voltage	230 V/50 Hz



On demand flush



Automatic flush



- **Specifically designed for commercial environments:** space saving, easy to clean, withstands intensive use
- **Easy to install:** frame system delivered pre-mounted, clip into place assembly
- **Hygiene:** systematic rinsing without manual contact, no water stagnation (limits bacterial development)
- **Efficiency and water savings:** direct flush reduces the risk of leaks, powerful and constantly available flush

TEMPOFIX 3 with TEMPOMATIC

Frame system with electronic WC valve



Frame system W. 350mm for wall-hung electronic WC:

- Black epoxy coated steel frame.
- Frame height can be adjusted 0 - 200mm (with 1m mark).
- Ø 32mm flush tube with Ø 55mm connection washer.
- Ø 100mm soil pipe with waterproof seal, with 2 settings positions.
- Delivered pre-mounted.
- **Conforms to standard NF D12-208.**
- For drywalls 26 - 70mm.

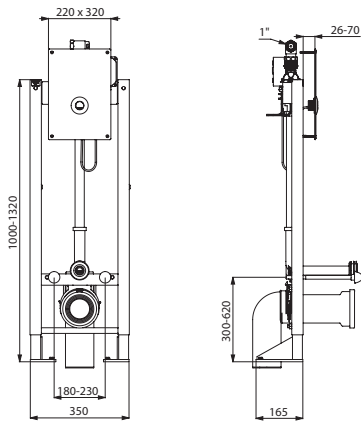
2 models are available:

Self-standing frame system with large feet to be fixed to load-bearing floors.
Frame system for wall-mounted installation to be fixed to load-bearing walls.

Fitted with TEMPOMATIC F1" electronic direct flush valve:

- Stainless steel plate 320 x 220mm.
- Shockproof infrared presence detection sensor.
- **Flush triggers when user nears hand or automatically when user leaves.**
- **Time flow ~7 sec** can be adjusted 3 - 12 sec.
- 230/12V transformer.
- **Stopcock and volume/flow rate adjuster.**
- Detection distance can be adjusted by installer.

Technical characteristics: see *TEMPOMATIC WC* page 185.



547005 + 546412

TEMPOFIX 3 with TEMPOMATIC WC valve

Self-standing model	547005 + 546412
Wall-mounted model	547000 + 546412

Options: wall fixings and sleeve connector (see page 176)





- **Specifically designed for commercial environments:** space saving, easy to clean, withstands intensive use
- **Easy to install:** frame system delivered pre-mounted, clip into place assembly
- **Hygiene:** no water stagnation (limits bacterial development)
- **Efficiency and water savings:** direct flush reduces the risk of leaks, powerful and constantly available flush, 3L/6L dual flush

TEMPOFIX 3 with TEMPOFLUX 2

Frame system for drywalls

NEW



Frame-system W.350mm for wall-hung WC :

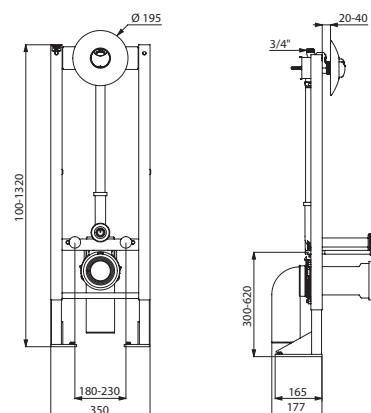
- Black epoxy coated steel frame.
- Frame height can be adjusted 0 - 200mm (with 1m mark).
- Ø 32mm flush tube with Ø 55mm connection washer.
- Ø 100mm soil pipe with waterproof seal, with two setting positions.
- Delivered pre-mounted.
- **Conforms to standard NF D12-208.**
- For drywalls 20 - 40mm.

2 models are available:

Self-standing frame system with large feet to be fixed to load-bearing floors.
Frame system for wall-mounted installation to be fixed to load-bearing walls.

Fitted with TEMPOFLUX 2 direct flush time flow valve.

- Ø 195mm chrome-plated wall plate with concealed fixings.
- **Available with 6L single flush or 3L/6L dual flush**
(can be adjusted to 2L/4L).
- **Soft-touch operation.**
- Vacuum breaker.
- **Stopcock and flow rate/volume adjuster.**
- Solid brass body and shockproof, scale-resistant mechanism.
- In-line inlet M $\frac{3}{4}$ ".
- Acoustic level conforms to European standard EN class II.



578305 + 578222



TEMPOFIX 3 with TEMPOFLUX 2 for drywalls 20 - 40mm

Self-standing model

3L/6L dual flush (DELABIE patented)	578305 + 578222
6L single flush (6L flush can be adjusted to 9L)	578305 + 578212

Wall-mounted model

3L/6L dual flush (DELABIE patented)	578300 + 578222
6L single flush (6L flush can be adjusted to 9L)	578300 + 578212

Options: wall fixings and sleeve connector (see page 176)



- **Specifically designed for commercial environments:** space saving, easy to clean, withstands intensive use
- **Easy to install:** frame system delivered pre-mounted, clip into place assembly
- **Hygiene:** no water stagnation (limits bacterial development)
- **Efficiency and water savings:** direct flush reduces the risk of leaks, powerful and constantly available flush, 3L/6L dual flush

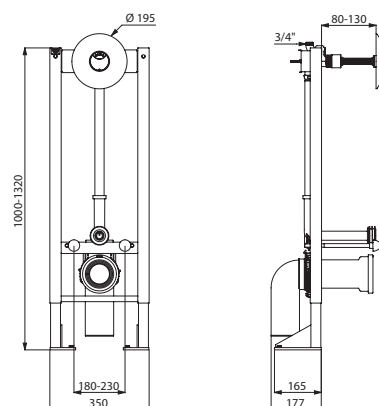
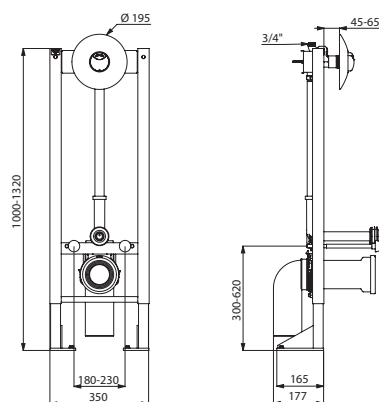
TEMPOFIX 3 with TEMPOFLUX 2

Frame system for semi-thick or thick walls



- **See opposite for technical description.**
- **For semi-thick walls 45 - 65mm or thick walls 80 - 130mm.**
- Available with 6L single flush or 3L/6L dual flush (can be adjusted to 2L/4L).

Technical features:
see *TEMPOFLUX 2* page 187.



RECOMMENDATIONS

TEMPOFLUX drywall

For plasterboard walls.

Wall thickness:

- min. 20mm
- max. 40mm



TEMPOFLUX semi-thick walls

For walls made of gypsum blocks, bricks or cinder blocks.

Wall thickness:

- min. 45mm
- max. 65mm



TEMPOFLUX thick walls

For walls made of gypsum blocks, bricks or cinder blocks.

Wall thickness:

- min. 80mm
- max. 130mm



TEMPOFIX 3 with TEMPOFLUX 2 for semi-thick walls 45 - 65mm

Self-standing model

3L/6L dual flush (DELABIE patented)	578405 + 578222
6L single flush (6L flush can be adjusted to 9L)	578405 + 578212

Wall-mounted model

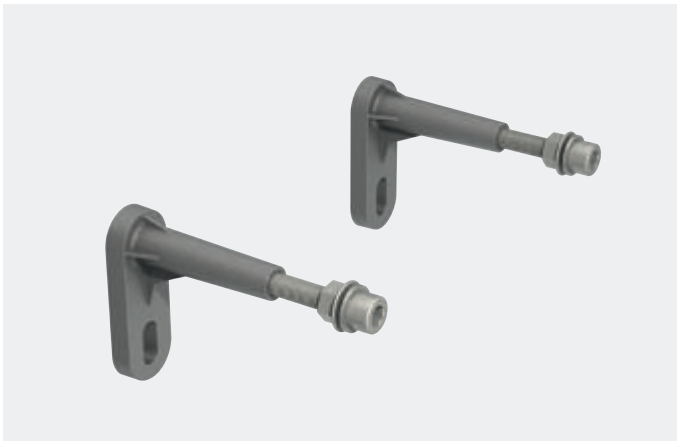
3L/6L dual flush (DELABIE patented)	578400 + 578222
6L single flush (6L flush can be adjusted to 9L)	578400 + 578212

TEMPOFIX 3 with TEMPOFLUX 2 for thick walls 80 - 130mm

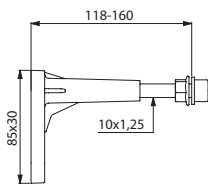
Self-supporting model	578305 + 578230
3L/6L dual flush (DELABIE patented)	578300 + 578230
Wall-mounted model	578300 + 578230
3L/6L dual flush (DELABIE patented)	578300 + 578230

Options: wall fixings and sleeve connector (see page 176)

Wall fixings



- Fixing kit for upper section of TEMPOFIX 3 frame system.
- 2 chrome-plated metal wall fixings, for reinforcing upper section of frame system.
- For installations if floor are none-load bearing.



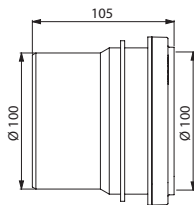
578MUR

TEMPOFIX 3 wall fixings	578MUR
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Sleeve connector



- For horizontal evacuation.
- ABS.



578100

Sleeve connector	578100
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WC controls

ELECTRONIC
CONTROLS
185



TIME FLOW
CONTROLS
187

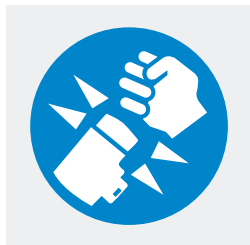


ADDITIONAL
FITTINGS
188

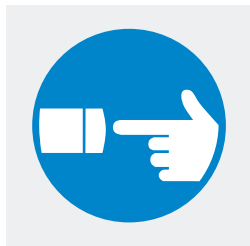




3L/6L dual flush



Vandal-resistant



Soft technology:
soft-touch operation

DIRECT FLUSH VALVES: SPECIFICALLY DESIGNED FOR INTENSIVE USE IN COMMERCIAL PLACES

The direct flush valve is specifically designed to meet the needs of highly frequented public facilities.

Efficient direct flush

The flush valve is connected directly to the water supply. Employing **the pressure from the system**, the flush is more effective. There is **no delay** while the cistern refills. Direct flush is **instantly available**, even for successive flushes, which is ideal for **intensive use**.

Hygiene

Since the flush is connected to the system, there is **no water stagnation, scale build-up or impurity deposits**, factors that encourage the development of bacteria. The effective direct flush ensures the pan remains clean. With electronic sensor controls (TEMPOMATIC), **no manual contact is required**.

Water savings and Ecolabels

Reinforced mechanisms reduce the risk of leaks. The TEMPOFLUX 2 range with **3L/6L dual flush** optimises water consumption. The flush volume can be **adjusted to 2L/4L** for ECO pans, achieving the highest performance standards for Ecolabels *Additional information pages 16 - 19*.

Minimal servicing and easy to maintain

The self-cleaning mechanism is made from **scale-resistant** materials. The cartridge can be isolated via the stopcock and can be easily changed without having to remove the flush valve.

Vandal-resistant

The mechanisms and controls are **shockproof** and have no fragile plastic parts. The fixings are concealed.

The **cross wall, dual flush** direct flush valve (TEMPOFLUX 2 TC) is exclusive to DELABIE. It is installed in a service duct, the ultimate solution against vandalism.

Superior endurance

The mechanisms are **hard-wearing**.

The system is self-cleaning which extends its **lifespan to over 500,000 operations**. DELABIE water controls perform to the highest standards.

Each model is subjected to endurance tests under extreme conditions in DELABIE's laboratories.

Comfort

The **acoustic level of the TEMPOFLUX 2 is low** and conforms to European standard EN 12541 class II.

This range features **soft-touch operation** which is suitable for all types of users.

Electronic versions avoid any manual contact and require no effort to operate.

Supply pipe diameters

The supply pipe diameters for direct flush are similar to cistern systems. Please see our recommendations (*see page 183*).

ADVANTAGES OF DIRECT FLUSH

VANDAL-RESISTANT:
shockproof mechanisms, concealed fixings

EASY AND INFREQUENT MAINTENANCE:
standardised cartridge can be changed without removing the valve, withstands up to 500,000 operations

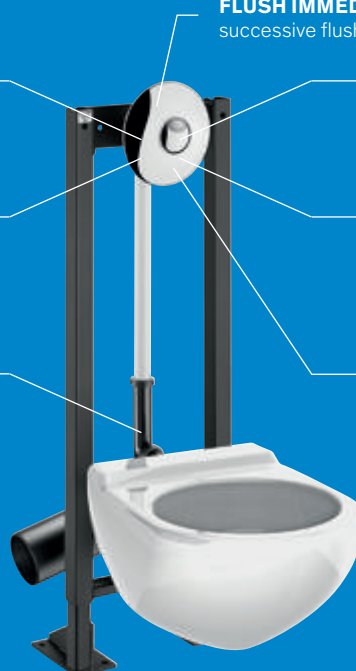
POWERFUL FLUSH:
uses the pressure of the system

FLUSH IMMEDIATELY AVAILABLE:
successive flushes are possible

WATER SAVINGS:
3L/6L dual flush, can be adjusted to 2L/4L

MINIMAL SERVICING:
scale-resistant mechanisms

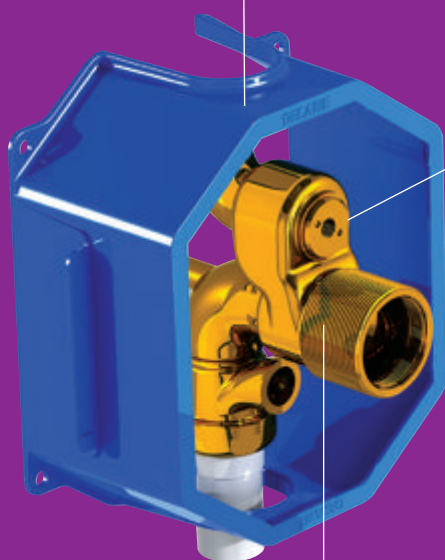
HYGIENE:
no water stagnation, scale build-up or impurity deposits



**MULTIPURPOSE
HOUSING**
Easy to install

**STOPCOCK
AND FLOW RATE/
FLUSH VOLUME
ADJUSTER**
Easy to maintain

**WALL PLATE
WITH HIDDEN FIXINGS**
Vandal-resistant



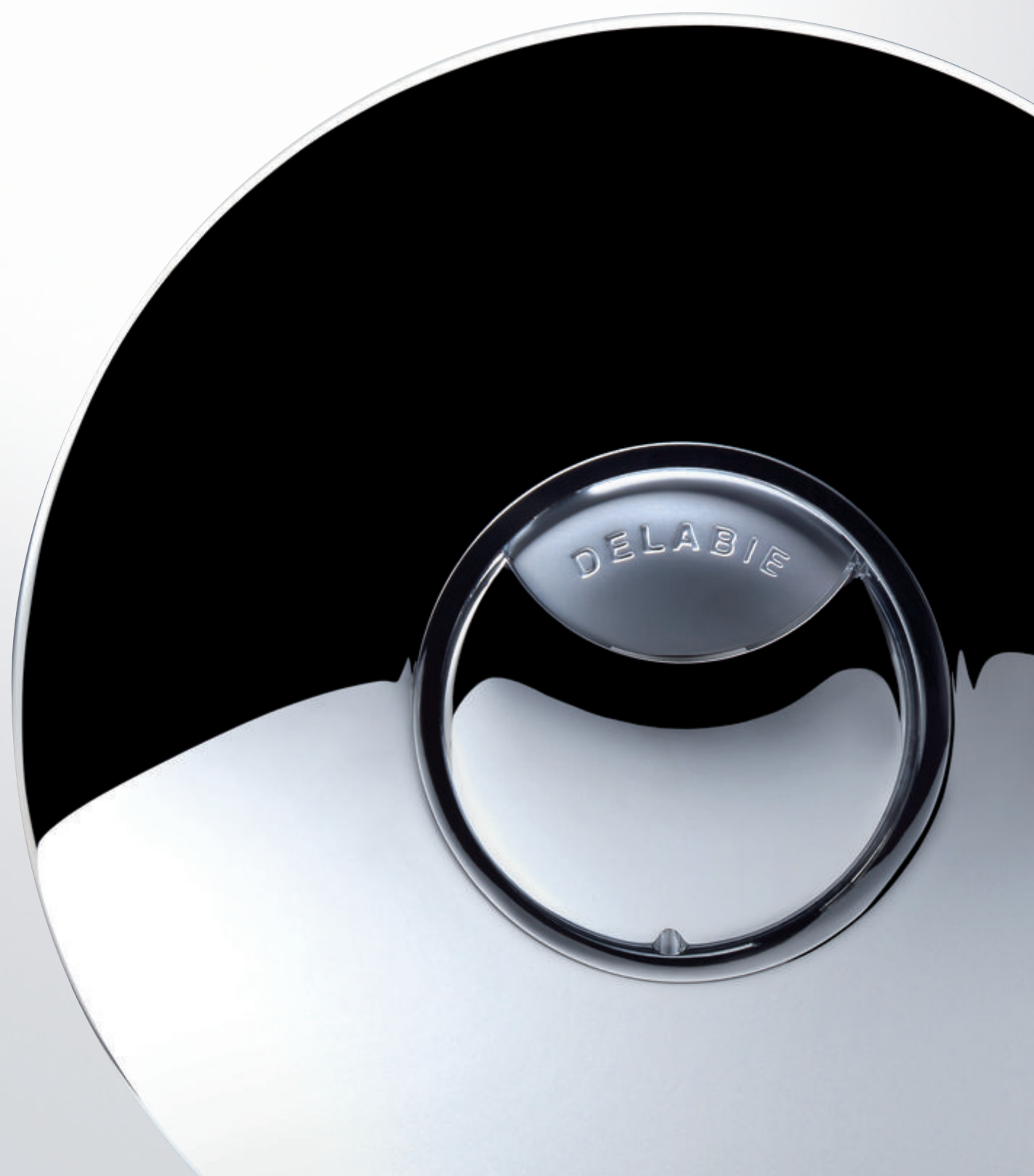
**SOLID BRASS
FLUSH VALVE**
Vandal-resistant

**ONE-PIECE
STANDARDISED
CARTRIDGE**
Easy to maintain



**3L/6L DUAL FLUSH
WITH SOFT-TOUCH OPERATION**
Water savings and improved comfort







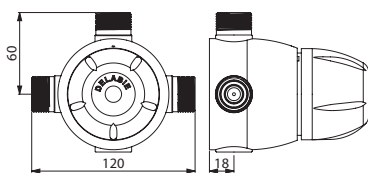
- **Automatic anti-scalding safety:** hot water shut-off if cold water supply fails
- **Comfort:** constant temperature stability regardless of variations in pressure or flow rate in the system
- **Solution against Legionnaires' disease:** conform to French circular of 22nd April 2002 and decree of 30th November 2005
- **Installation:** at the hot water system outlet (HW)

PREMIX SECURITY

Group thermostatic mixing valve for circulating loop



- Group thermostatic mixing valve for hot water circulating loops adjustable from 44°C-58°C.
- **Anti-scalding safety.**
- **Regulation of temperature variations.**
- **Filters and non-return valves can be accessed from the outside without removing the mechanism.**
- **Thermal shock with no specific lever needed** (push-button on the control knob).
- **Interchangeable cartridge with thermostatic cell.**
- High-resistance chrome-plated brass body DZR.
- Maximum hot water temperature: 85°C.
- Differential hot water / mixed water: 15°C mini.
- Pressure differences at the inlets: 1 bar maximum (0.5 bar recommended).
- Minimum pressure / maximum: 1 to 10 bar (1 to 5 bar recommended).
- Left hand side hot water inlet (red ring) and right hand side cold water inlet (blue ring).
- Mixed water outlet at the top (purple ring). For bottom outlet: unscrew / place lid at the top and outlet connector at the bottom.
- **15% energy savings:** optimised heat loss (comparison between a circulating loop at 55°C and a non-circulating system at 70°C).
- **Safety and prolongation of system life span** (Hot water at >65°C leads to premature aging within the system).
- **Maximum temperature limiter, can be adjusted by the installer.**
- **Reduced risk of scalding by reducing the temperature at the production outlet.**



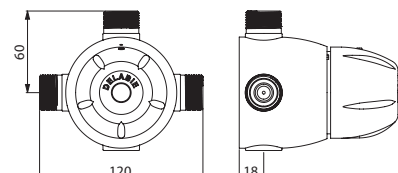
Description	Dimensions			Reference
	W	H	D	
PREMIX SECURITY 55, M ³ / ₄ "	120	60	18	731052
PREMIX SECURITY 90, M1"	160	80	23	731053
PREMIX SECURITY 140, M1 ¹ / ₄ "	180	90	26	731054
PREMIX SECURITY 190, M1 ¹ / ₂ "	196	98	26	731055

PREMIX COMFORT

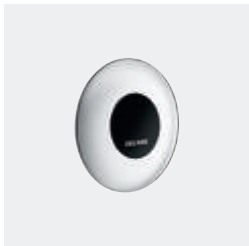
Group thermostatic mixing valve for mixed water 32° - 42°C



- Group thermostatic mixing valve for mixed water distribution from 32° to 42°C.
- **Anti-scalding safety.**
- **Regulation of temperature variations.**
- **Filters and non-return valves can be accessed from the outside without removing the mechanism.**
- **Thermal shock with no specific lever needed** (push-button on the control knob).
- **Interchangeable cartridge with thermostatic cell.**
- High-resistance chrome-plated brass body DZR.
- Maximum hot water temperature: 85°C.
- Differential hot water / mixed water: 15°C minimum.
- Pressure differences at the inlets: 1 bar max (0.5 bar recommended).
- Minimum pressure / maximum: 1 to 10 bar (1 to 5 bar recommended).
- Left hand side hot water inlet (red ring) and right hand side cold water inlet (blue ring).
- Mixed water outlet at the top (purple ring). For bottom outlet: unscrew / place lid at the top and outlet connector at the bottom.
- **Maximum temperature limiter, can be adjusted by the installer.**
- **Reduced risk of scalding by reducing the temperature at the point-of-use.**
- Available in 2 sizes to replace the common existing models (standard exchange).



Description	Dimensions			Reference
	W	H	D	
PREMIX COMFORT 55, M ³ / ₄ "	120	60	18	731002
PREMIX COMFORT 90, M1"	160	80	23	731003
PREMIX COMFORT 140, M1 ¹ / ₄ "	180	90	26	731004
PREMIX COMFORT 190, M1 ¹ / ₂ "	195	98	26	731005
PREMIX COMFORT T2, M ³ / ₄ "	120	81	18	731200
PREMIX COMFORT T3, M1"	146	95	23	731300
PREMIX COMFORT T4, M1 ¹ / ₄ "	180	107	26	731400
PREMIX COMFORT T5, M1 ¹ / ₂ "	218	129	26	731500



TEMPOMATIC

Total hygiene
TEMPOMATIC WC operates **with no manual contact**, avoiding the spread of germs by hand. It flushes automatically should the user forget to do so voluntarily. The absence of a cistern avoids water stagnation, a major cause of bacterial development.

Water savings and Ecolabels
Direct flush reduces the risk of leaks, unlike cisterns, where drips and leaks can go unnoticed and generate large water bills.
The flush volume can be adjusted to achieve the highest performance standards for Ecolabels
Additional information pages 16 - 19.

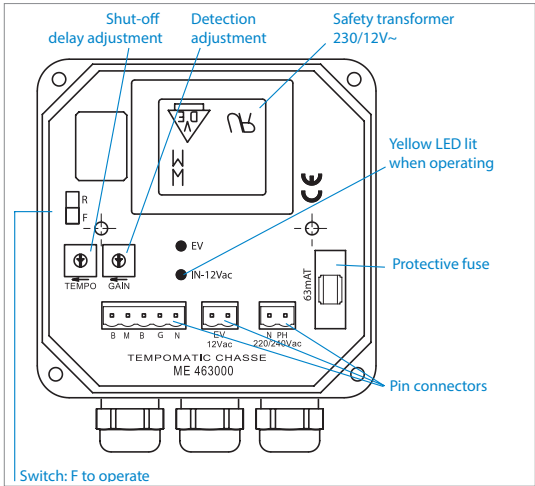
Efficient direct flush
The flush valve is connected directly to the water supply. Employing **the pressure from the system**, the flush is more effective. There is **no delay** while the cistern refills. Direct flush is instantly available, even for successive flushes, which is ideal for **intensive use**.

Comfort
The flush is activated with no manual contact, and is therefore suitable for all types of users. The user can choose the operating mode:
- **Automatic**: flushes after the user leaves.
- **On demand**: by passing hand 10cm in front of the sensor.

Vandal-resistant
Depending on the location, TEMPOMATIC WCs can be installed through-the-wall or recessed, reducing any risk of unwanted removal.

Easy to install and maintain
The shut-off delay and detection distance are easy to adjust on the control unit. Maintenance is simplified with LEDs.

Reliability
The solenoid valve is resistant to corrosion, and the sensor is water and shockproof. The PCB (printed circuit board) is protected with an anti-interference cable and provides anti-blocking security.

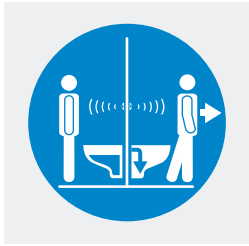


Technical characteristics TEMPOMATIC

Minimum volume	4L
Factory setting	6L
Maximum volume	12L
Base flow rate to calculate pipework	Q min.1 L/sec.
Recommended dynamic pressure	1 - 3 bar Min. pressure 1 bar
Inlet connections	F1" - Internal Ø min. 26mm
Outlet connections	Ø 26/32mm
Operating voltage	230V / 50 Hz



On demand flush



Automatic flush



- **Hygiene:** no manual contact, no stagnant water (limits bacterial development)
- **Comfort:** on demand or automatic flush
- **Vandal-resistant:** cross wall or recessed installation
- **Efficient and water savings:** direct flush reduces the risk of leaks, powerful flush is available instantly

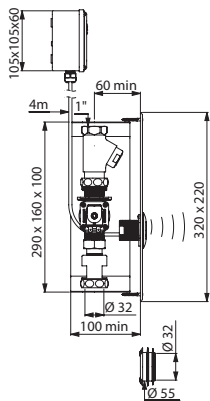
TEMPOMATIC WC

Recessed electronic flush valve with mains supply



- **Housing recessed behind a satin finish stainless steel plate 320 x 220mm.**
- IP65 electronic housing unit.
- Mains supply with 1" solenoid valve.
- 230/12V transformer.
- Shockproof infrared presence detection sensor.
- **On demand or automatic flush.**
- **Time flow ~7 sec.,** can be adjusted from 3 - 12 seconds.
- **Detection distance, flow rate and flush volume can be adjusted.**
- Stopcock FF1".
- Vacuum breaker Ø 32mm.
- Connection washer Ø 32/55mm.

This model does not have a waterproof recessing housing. The installer must ensure that the recessing area is waterproof and any leaks or condensation can drain away (see installation guide).



463326

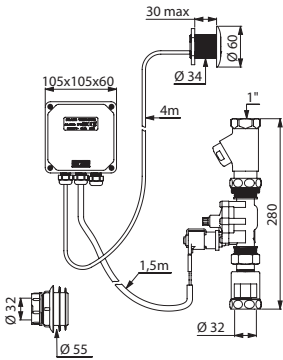
TEMPOMATIC WC recessed flush valve	463326
Option: tamperproof screws (see page 223)	

TEMPOMATIC WC

Cross wall electronic flush valve with mains supply



- IP65 independent electronic unit.
- Mains supply with 1" solenoid valve.
- 230/12V transformer.
- Shockproof infrared presence detection sensor.
- **On demand or automatic flush.**
- **Time flow ~7 sec.,** can be adjusted from 3 - 12 seconds.
- **Detection distance, flow rate and flush volume can be adjusted.**
- Stopcock FF1".
- Vacuum breaker Ø 32mm.
- Connection washer Ø 32/55mm.
- Wall plate flush to the wall.
- Threaded rod can be cut to size.
- **Available without stopcock or backflow prevention device, for sea water compatible versions.**



463030

TEMPOMATIC WC cross wall flush valve	
For walls ≤ 30mm	463030
For walls ≤ 30mm, sea water compatible	463030HK
For walls ≤ 160mm	463150
For walls ≤ 160mm, sea water compatible	463150HK
For walls ≤ 225mm	463200
For walls ≤ 225mm, sea water compatible	463200HK
Alternative cross wall lengths are available on request	

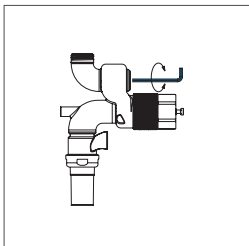
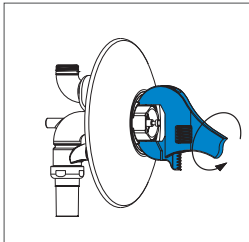
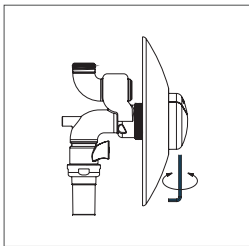


Recessed installation



Installation on frame system

Flow rate/flush volume adjustment



Choice of flush:
6L powerful flush.
3L single flush.
Possible to adjust volume to 2L/4L.

TEMPOFLUX 2

Water savings and Ecolabels

The TEMPOFLUX 2 range has a 3L/6L dual flush which optimises rinsing and water savings. The flush volume can be adjusted to 2L/4L to achieve the highest performance standards for Ecolabels Additional information pages 16 - 19.

Direct flush reduces the risk of leaks, unlike cisterns, where drips and leaks can go unnoticed and generate large water bills.

Efficient direct flush

The flush valve is connected directly to the water supply. Employing the pressure from the system, the flush is more effective.

There is no delay while the cistern refills. Direct flush is instantly available, even for successive flushes, which is ideal for intensive use.

Comfort

Thanks to its soft-touch operation, TEMPOFLUX 2 can be operated by all users (children, the elderly or people with reduced mobility). The acoustic level is low and conforms to European standard EN 12541 class II. The 6L flush can be adjusted to 9L for refurbishment of existing installations.

Design

TEMPOFLUX 2 has a timeless design. It fits in perfectly with any commercial installation. In certain installations such as psychiatric units, products must be resistant and secure e.g. concealed mechanisms, streamlined design, etc.

Aesthetic products are subject to less vandalism as they are better respected. The smooth shape of the TEMPOFLUX 2 reduces the build-up of dirt and facilitates cleaning. The dual flush button has high polished and satin polished finish parts to indicate its dual function.

Vandal-resistant

Depending on the location, TEMPOFLUX 2 can be installed through-the-wall or recessed, reducing any risk of unwanted removal.

Maintenance

TEMPOFLUX 2 is easy to maintain via the large access area behind the wall plate. Cartridges are easy to change without having to remove the valve.

Multipurpose housing

The TEMPOFLUX recessed units can be screwed to the back of the wall or sealed into it. The recessing depth can be adjusted.

Hygiene

The absence of a cistern avoids water stagnation, a major cause of bacterial development.

Reliability

The time flow mechanisms in DELABIE valves are hard-wearing. The hydraulic timing system with a calibrated groove is self-cleaning, which extends its lifespan to over 500,000 operations. There is no metal-metal or metal-plastic friction, ensuring reliable and durable timing. DELABIE water controls perform to the highest standards. Each model is subjected to endurance tests under extreme conditions in endurance laboratories.

Technical characteristics TEMPOFLUX 2

Minimum volume	2L/4L
Factory setting	3L/6L
Maximum volume	3L/9L
Base flow rate to calculate pipework	Q min. 1 L/sec.
Recommended dynamic pressure	1.5 - 3 bar Min. pressure 1.5 bar
Inlet connections	M¾" - Internal Ø min. 20mm
Outlet connections	Brass tube Ø 26/28mm or PVC Ø 26/32mm



- **Hygiene:** no stagnant water (limits bacterial development)
- **Comfort:** soft-touch operation, low acoustic level conforms with European standard EN 12541 class II
- **Efficient and water savings:** direct flush reduces the risk of leaks, powerful flush is available instantly, 3L/6L dual flush
- **Vandal-resistant:** recessed or cross wall installation

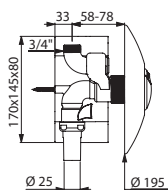
TEMPOFLUX 2 WC

Recessed time flow flush valve

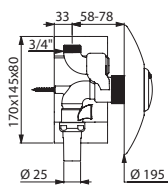


- Multipurpose recessing housing.
- Chrome-plated metal wall plate Ø 195mm.
- Recessing depth can be adjusted from 0 - 20mm.
- **Available in 6L single flush or 3L/6L dual flush.**
- 3L/6L flush can be adjusted to 2L/4L.
- **Soft-touch operation.**
- **Vacuum breaker.**
- **Integrated stopcock and flow rate/flush volume adjuster.**
- Solid brass body.
- Chrome-plated metal push-button.
- In-line inlet M $\frac{3}{4}$ ".
- Outlet connection for PVC tube Ø 26/32mm.
- **Acoustic level conforms with European standard EN 12541 class II.**

This model does not have a waterproof recessing housing. The installer must ensure that the recessing area is waterproof and any leaks or condensation can drain away (see installation guide).



762902



762901

TEMPOFLUX 2 recessed flush valve

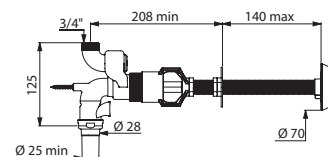
3L/6L dual flush (DELABIE patented)	762902
6L single flush	762901

TEMPOFLUX 2 WC

Cross wall time flow flush valve



- **3L/6L dual flush** can be adjusted to 2L/4L.
- **Soft-touch operation.**
- Cross wall control can be cut to size, for walls ≤ 145mm.
- **Vacuum breaker.**
- **Integrated stopcock and flow rate/flush volume adjuster.**
- Solid brass body.
- Chrome-plated metal push-button.
- In-line inlet M $\frac{3}{4}$ ".
- Outlet connection for PVC tube Ø 26/32mm.
- **Low acoustic level conforms to European standard EN class II.**



762150

TEMPOFLUX 2 cross wall flush valve

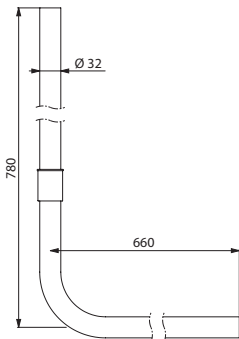
762150

Flush tube for WC pans

For TEMPOFLUX recessed/cross wall



- Recessed PVC flush tube.
- Ø 26/32mm (without connection washer).



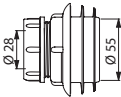
769400

Flush tube for TEMPOFLUX	769400
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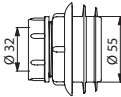
Connection washer



- With clamp.
- Neck Ø 55mm.



705028



705000

Connection washer	
For tube Ø 28mm	705028
For tube Ø 32mm	705000



Sanitary ware

STAINLESS STEEL
SURGICAL SCRUB UP
TROUGHS
BABY BATH TUB
PLASTER SINK
194



STAINLESS STEEL
DISPOSAL SINKS
196



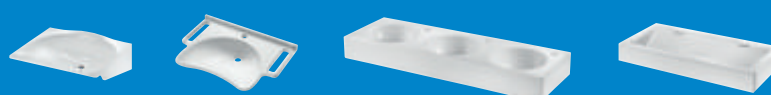
STAINLESS STEEL
CLEANERS' SINKS
WASHBASINS
198



STAINLESS STEEL
WASHBASINS
DRINKING FOUNTAINS
200



MINERALSTEEL
AND MINERALCAST
WASHBASINS
203





MAXIMUM HYGIENE



Stainless steel: a material that reduces bacterial proliferation

DELABIE's sanitary ware is made from bacteriostatic 304 stainless steel.

A thin, invisible protective layer forms continuously when in contact with air or water. If the surface is damaged mechanically, the stainless steel is protected against corrosion.

The surface remains bright, hard and smooth, preventing bacteria from easily adhering to the surface. Bacterial development is therefore slower compared to other materials. Studies have regularly proven the aseptic qualities of stainless steel.

It is ideal for environments that demand high standards of hygiene (for example, public toilets, hospitals, canteens and professional catering).



Bright polished or polished satin finish: easy and sustainable cleaning

Using surfaces that are easy to clean and disinfect reduces the spread of bacteria. DELABIE's bright polished finish and polished satin finish provide the sanitary ware with a uniform, non-porous surface. They are very easy to clean and hence less cleaning product is required. Bacterial retention after cleaning is extremely low, up to 20 times less than for other materials such as glass or plastic. Polished stainless steel provides better hygiene by facilitating sustainable cleaning.



Designed for improved hygiene

DELABIE's stainless steel sanitary ware is designed in response to an obvious and inescapable principle of hygiene: the need for frequent cleaning. Particular attention was paid to designing products with limited assembly and reduced numbers of seams to avoid dirt deposits and bacterial niches. Most of DELABIE's basins are seam-free, with rounded edges, for effective cleaning and good hygiene.



RESISTANCE TO VANDALISM

Suitable for intensive use

Most of DELABIE's stainless steel products conform to sanitary equipment standards and regulations. These standards guarantee resistance to heavy loads, abrasion, scratches and chemical products. DELABIE's stainless steel sanitary ware is performance tested in order to withstand use in highly-frequented environments. It has been specifically designed for use in all types of public buildings.

Maximum endurance

In order to fight against voluntary or involuntary vandalism, DELABIE's sanitary ware is made from stainless steel, a highly resistant and durable material, able to withstand high temperatures. The sleek, tamperproof design limits the risk of vandalism. The components and fixing elements cannot be accessed by the user.

Safety

The user's safety is taken into account in the design of DELABIE's stainless steel sanitary ware. Rounded sides, with no sharp edges, prevent the risk of cuts. The sleek, tamperproof designs provide additional safety.

Fight against vandalism

To prevent vandalism, the majority of DELABIE's stainless steel sanitary ware features concealed fixings and/or theft-prevention TORX security screws. The star-shaped screw head requires the use of a special screwdriver.

EASY TO INSTALL AND MAINTAIN

Easy to install

All DELABIE's products are easy to install with a minimum of adjustments and settings to reduce installation time. The majority of DELABIE's stainless steel sanitary ware comes with its own fixing elements.

Simple to maintain

The simple and secure access to components makes maintenance easy. Service panels allow easy access to the siphon and other internal parts. The DELABIE hotline provides technical support if necessary. All installation guides are available on the website www.delabie.com

ENVIRONMENTALLY FRIENDLY

100% recyclable

Stainless steel is 100% recyclable, contributing to sustainable development and protecting the environment. DELABIE's stainless steel sanitary ware contains 60% recycled stainless steel.

Ecological and economic

DELABIE's stainless steel sanitary ware requires less energy to manufacture due to the use of advanced technologies (cold pressing, TIG and laser welding). Lighter than ceramic, their transportation consumes fewer resources. Virtually impossible to break, DELABIE's stainless steel sanitary ware is economical since no replacement is needed.

AND ALSO...

Packaged with care

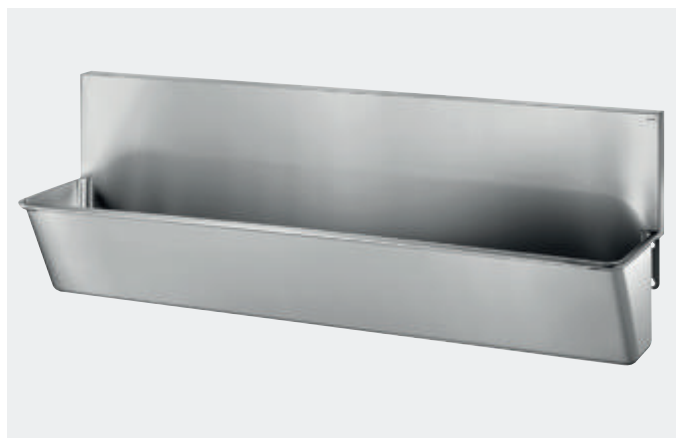
DELABIE's stainless steel sanitary ware is packed in thick cardboard boxes for protection during transportation. Particular attention has been paid to the internal packaging. The protective plastic has been taped rather than stapled to prevent scratches.

A complete range

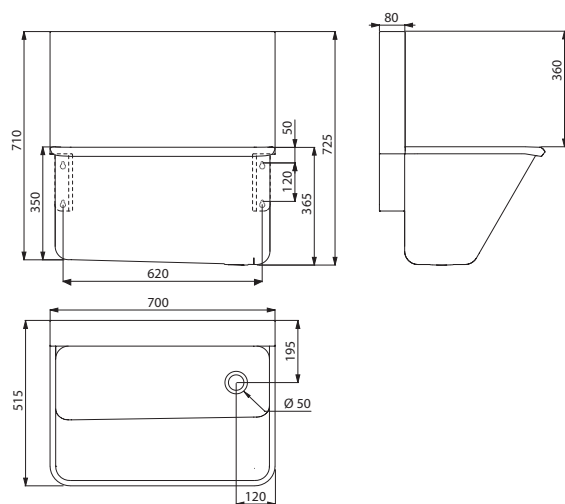
DELABIE's wide range of products meets the needs and issues faced by public places. Washbasins, WCs, showers and maintenance areas are fitted with DELABIE products. These products are a perfect addition to DELABIE's other product ranges.

Surgical scrub up trough

High upstand



- Wall-mounted surgical scrub up trough with high upstand.
- Bacteriostatic 304 stainless steel.
- Stainless steel thickness: 1.5mm.
- Smooth surface and rounded inside edges for easy cleaning.
- Suitable for hospitals and healthcare facilities.
- 360mm anti-splash upstand to protect wall and improve hygiene.
- Available with 1, 2 or 3 posts.
- Drainage on the right.
- Without overflow.
- Supplied with fixing elements.
- Weight: 13.8kg for the 700mm version; 24.2kg for the 1,400mm version; 34.9kg for the 2,100mm version.



181000/182000/183000

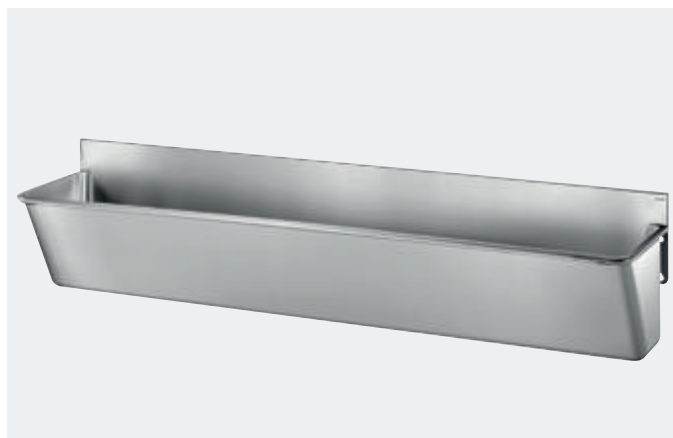
Surgical scrub up trough with high upstand - Without tap hole		
Polished satin 304 st steel - L. 700mm - 1 post	⌚	181000
Polished satin 304 st steel - L. 1,400mm - 2 posts	⌚	182000
Polished satin 304 st steel - L. 2,100mm - 3 posts	⌚	183000
Surgical scrub up trough with high upstand With 1 single tap hole Ø 22 per service		
Polished satin 304 st steel - L. 700mm - 1 post	⌚	181100
Polished satin 304 st steel - L. 1,400mm - 2 posts	⌚	182100
Polished satin 304 st steel - L. 2,100mm - 3 posts	⌚	183100
Surgical scrub up trough with high upstand With 1 twin tap holes Ø 22 with 150mm centres per service		
Polished satin 304 st steel - L. 700mm - 1 post	⌚	181200
Polished satin 304 st steel - L. 1,400mm - 2 posts	⌚	182200
Polished satin 304 st steel - L. 2,100mm - 3 posts	⌚	183200

On request: other lengths (700mm - 2250mm) are available

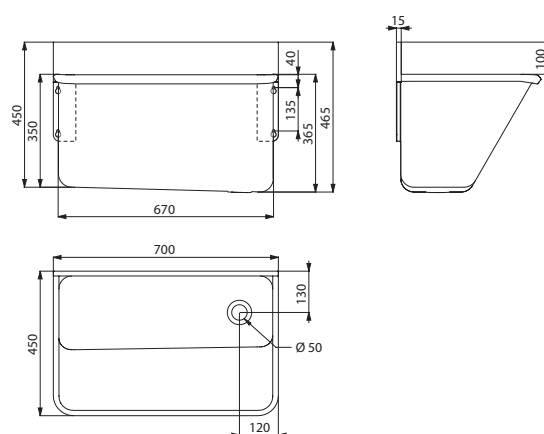
⌚ : dispatch within 4 weeks 📦 : stock item

Surgical scrub up trough

Low upstand



- Wall-mounted surgical scrub up trough.
- Bacteriostatic 304 stainless steel.
- Stainless steel thickness: 1.5mm.
- Smooth surface for easy cleaning.
- Suitable for hospitals and healthcare facilities.
- Available with 1, 2 or 3 posts.
- Drainage on the right.
- Without overflow.
- Supplied with fixing elements.
- Weight: 10.6kg for the 700mm version; 18.8kg for the 1,400mm version; 27kg for the 2,100mm version.



181020/182020/183020

Surgical scrub up trough with low upstand - Without tap hole		
Polished satin 304 st steel - L. 700mm - 1 post	⌚	181020
Polished satin 304 st steel - L. 1,400mm - 2 posts	⌚	182020
Polished satin 304 st steel - L. 2,100mm - 3 posts	⌚	183020

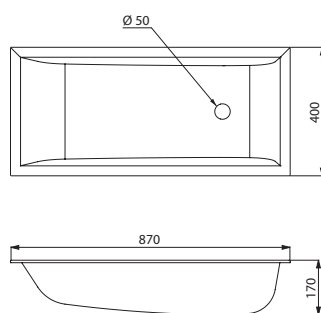
On request: other lengths (700mm - 2250mm) are available

Baby bath tub

Recessed



- Recessed baby bath tub.
- Capacity: 35 litres.
- Bacteriostatic 304 stainless steel.
- Stainless steel thickness: 1.5mm.
- Smooth surface and rounded inside edges for easy cleaning.
- Waste outlet 1½".
- Without overflow.
- CE marked. Complies with European standard EN 14516.
- Weight: 7.5kg.



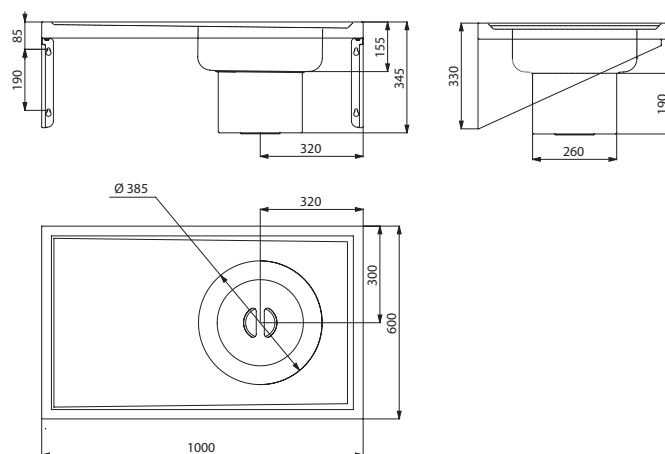
180900

Plaster sink

Wall-mounted



- Wall-mounted plaster sink.
- Bacteriostatic 304 stainless steel.
- Stainless steel thickness: 1.5mm.
- Smooth surface and flat edges for easy cleaning.
- Suitable for hospitals and healthcare facilities.
- Supplied with removable plaster basket with lid to filter plaster debris.
- Can be installed in 2 ways: bowl on the right or bowl on the left.
- Waste outlet 1½".
- Supplied with fixing elements.
- Weight: 17kg.



180130

Recessed baby bath tub
Polished satin 304 stainless steel





180900

Wall-mounted plaster sink
Polished satin 304 stainless steel



180130

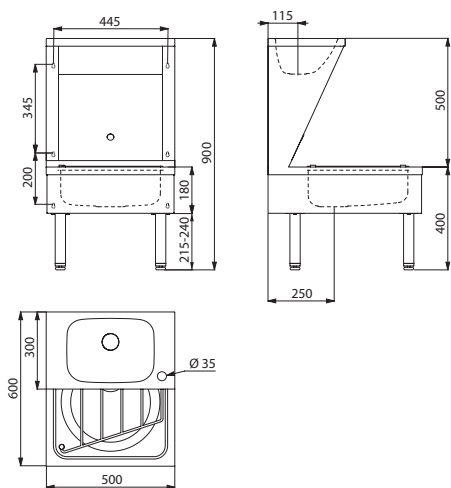
 : dispatch within 4 weeks  : stock item

Sanitary ware **195**

Janitorial unit
Floor-standing





- Floor-standing janitorial unit.
- Complies with HTM64 guidance (Health Technical Memoranda 64 - Sanitary Assemblies).
- Bacteriostatic 304 stainless steel. Stainless steel thickness: 1.5mm.
- Smooth surface for easy cleaning.
- Adjustable feet height up to 25mm.
- Supplied with 1¼" waste for the basin and 1½" waste for the disposal sink.
- Without overflow.
- Hinged stainless steel bucket grid.
- Weight: 22kg.



180140

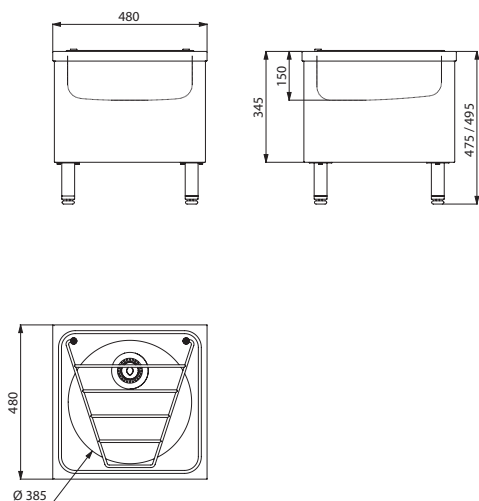
Floor-standing janitorial unit with right tap hole Ø 35mm
Polished satin 304 stainless steel  180140

 : dispatch within 4 weeks  : stock item

Disposal sink
Floor-standing



- Floor-standing disposal sink.
- Bacteriostatic 304 stainless steel. Stainless steel thickness: 1.2mm.
- One-piece pressed bowl, seam-free.
- Smooth surface for easy cleaning.
- Adjustable feet height up to 40mm.
- Supplied with 1½" waste. Without overflow.
- Hinged stainless steel bucket grid.
- Weight: 10.6kg.



180150

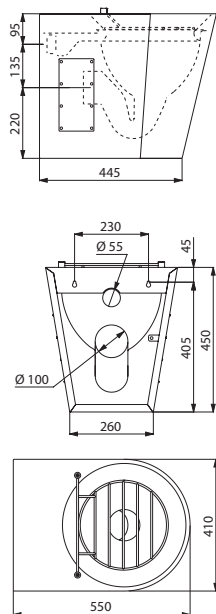
Floor-standing disposal sink
Polished satin 304 stainless steel  180150

XL P disposal sink

Floor-standing



- Floor-standing disposal sink.
- Bacteriostatic 304 stainless steel.
- Stainless steel thickness: 1.5mm.
- Smooth surface for easy cleaning.
- Concealed perimetral flushing system.
- Horizontal or vertical water inlet: Ø 55mm.
- Horizontal or vertical water outlet: Ø 100mm. Supplied with PVC pipe.
- Concealed drainage: shrouded sink.
- Quick and easy to install: 2 access panels with theft prevention TORX security screws.
- Hinged stainless steel bucket grid.
- Weight: 16kg.



182060

Floor-standing XL P disposal sink Polished satin 304 stainless steel

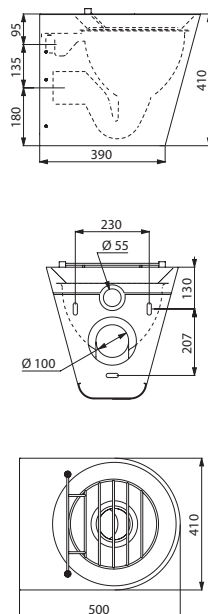
Horizontal water inlet		182060
Vertical water inlet		182070

XL S disposal sink

Wall-mounted



- Wall-mounted disposal sink.
- Bacteriostatic 304 stainless steel.
- Stainless steel thickness: 1.5mm.
- Smooth surface for easy cleaning.
- Concealed perimetral flushing system.
- Horizontal water inlet: Ø 55mm.
- Recessed horizontal waste outlet: Ø 100mm.
- Concealed drainage: shrouded sink.
- Quick and easy to install from the front thanks to a stainless steel mounting frame.
- Hinged stainless steel bucket grid.
- Supplied with fixing elements.
- Weight: 15kg.



182160

Wall-mounted XL S disposal sink Polished satin 304 stainless steel

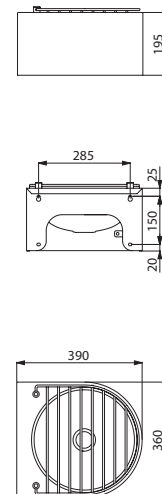
Horizontal water inlet		182160
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Disposal sink

Wall-mounted



- Wall-mounted disposal sink.
- Bacteriostatic 304 stainless steel.
- Stainless steel thickness: 1.5mm.
- Smooth surface for easy cleaning.
- Waste outlet 1 1/4". Waste not included.
- Hinged stainless steel bucket grid.
- Without overflow.
- Supplied with fixing elements.
- Weight: 5.1kg.



180170

Wall-mounted disposal sink

Polished satin 304 stainless steel		180170
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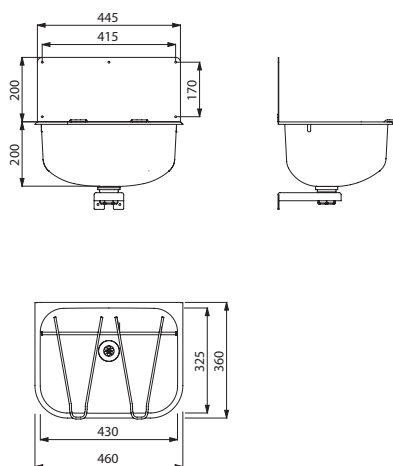
: dispatch within 4 weeks : stock item

Cleaners' sink

Wall-mounted



- Wall-mounted cleaners' sink with splashback.
- Bacteriostatic 304 stainless steel.
- Stainless steel thickness: 1mm.
- Seam-free, pressed bowl.
- Deep sink.
- Smooth surface.
- Rounded edges prevent injury.
- Supplied with 1½" waste.
- Without overflow.
- Supplied with fixing elements and splashback.
- Weight: 4kg.



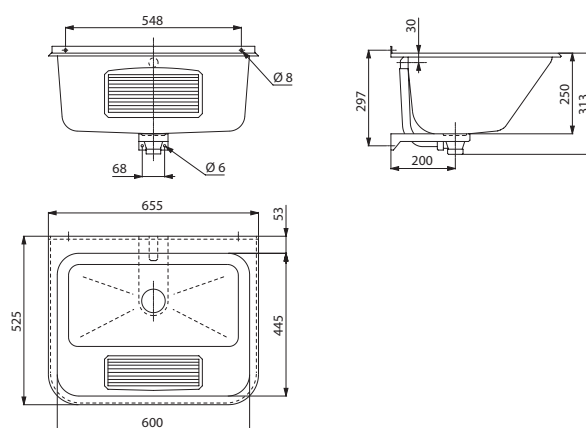
182400+102400

Utility sink

Wall-mounted





- Wall-mounted utility sink.
- Bacteriostatic 304 stainless steel.
- Stainless steel thickness: 0.9mm.
- Seam-free, pressed bowl.
- Deep sink.
- Sloping ribs on front panel for washing laundry.
- Smooth surface.
- Rounded edges prevent injury.
- Supplied with 1½" waste.
- With overflow, plug and chain.
- Supplied with fixing elements.
- Weight: 5.5kg.



232014

Available 2nd quarter of 2017, please contact sales office for more details.

Wall-mounted cleaners' sink		
Polished satin 304 stainless steel		182400
Stainless steel hinged grid for model 182400		102400

 : dispatch within 4 weeks  : stock item

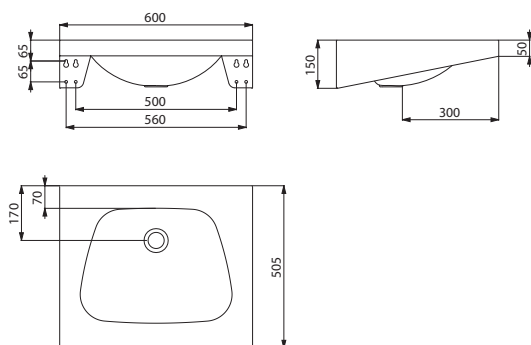
Wall-mounted utility sink		
Polished satin 304 stainless steel		232014

TRAPEZ washbasin

Wall-mounted



- Wall-mounted washbasin, 600 × 505mm.
- Shallow washbasin.
- Bacteriostatic 304 stainless steel.
- Stainless steel thickness: 1.2mm.
- Rounded edges prevent injury.
- Supplied with 1¼" waste.
- Without overflow.
- Supplied with fixing elements.
- CE marked. Complies with European standard EN 14688.
- Weight: 5.5kg.



120270

Wall-mounted TRAPEZ washbasin - Polished satin 304 stainless steel

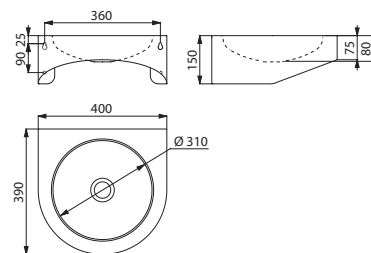
Without tap hole		120270
With central tap hole Ø 35mm		121270

PMR XS hand washbasin

Wall-mounted



- Wall-mounted hand washbasin.
- Basin internal diameter: 310mm.
- Bacteriostatic 304 stainless steel.
- Stainless steel thickness: 1.2mm.
- Rounded edges prevent injury.
- Supplied with 1¼" waste.
- Without overflow.
- Supplied with fixing elements.
- CE marked. Complies with European standard EN 14688.
- Weight: 3.9kg.



120400

PMR XS wall-mounted hand washbasin Polished satin 304 stainless steel Without tap hole

	120400
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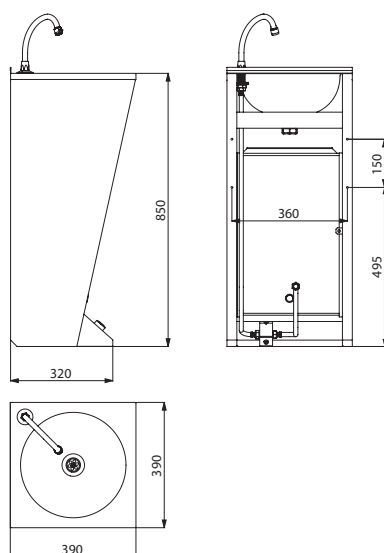
: dispatch within 4 weeks : stock item

SXL hand washbasin


Foot-operated



- Floor-standing, foot-operated hand washbasin.
- Can be wall-mounted and/or floor-standing.
- Bacteriostatic 304 stainless steel.
- Stainless steel thickness: 1mm.
- Supplied with swan neck spout and time flow tap with 7 second time flow.
- Easy to maintain: access panel at the front.
- Supplied with 1 1/4" waste. Without overflow.
- Supplied with fixing elements.
- CE marked. Complies with European standard EN 14688.
- Weight: 10kg.



180300

Floor-standing SXL hand washbasin with integrated tap  **180300**
Polished satin 304 stainless steel

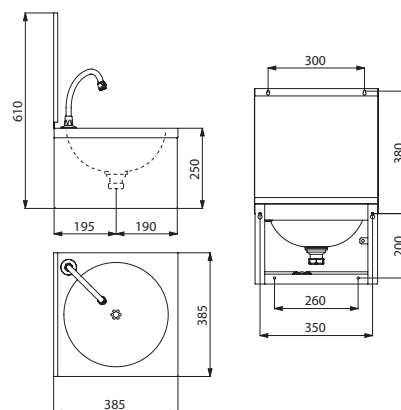
 : dispatch within 4 weeks  : stock item

SXS mechanical hand washbasin

Knee-operated








- Wall-mounted, knee-operated hand washbasin.
- Bacteriostatic 304 stainless steel.
- Stainless steel thickness: 1mm.
- Rounded edges prevent injury.
- Available with or without splashback.
- Bare model (without tap) or complete model (with tap and premixer).
- Complete model consists of: swan neck spout, soft-touch time flow tap with 7-second time flow and a premixer with non-return valves.
- Flat perforated waste, without screws: easy to clean and vandal-resistant.
- Water savings: flow rate pre-set at 3 lpm.
- Maximum hygiene: no manual contact with tap.
- Without overflow.
- Supplied with fixing elements.
- CE marked. Complies with European standard EN 14688.
- Weight: 4.3kg.



182320

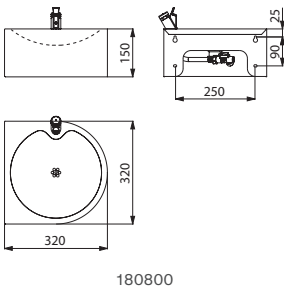
Available 2nd half of 2017, please contact sales office for more details.


SXS mechanical hand washbasin without tap		
Hand washbasin alone, without splashback		181310
Hand washbasin alone, with splashback		181320
SXS mechanical hand washbasin with tap and premixer		
Complete hand washbasin without splashback		182310
Complete hand washbasin with splashback		182320
Soap dispenser		374001

SD drinking fountain
Wall-mounted

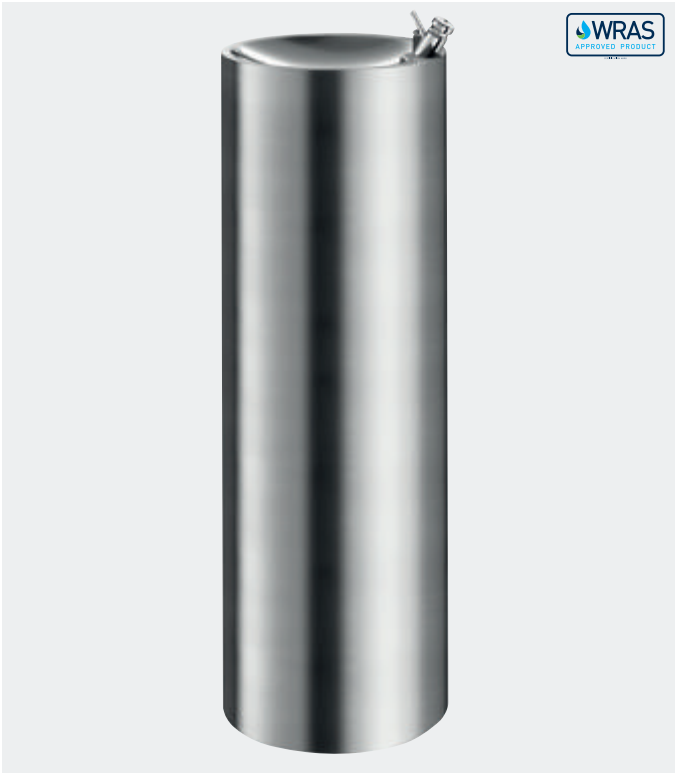


- Wall-mounted drinking fountain.
- Bacteriostatic 304 stainless steel.
- Stainless steel thickness: 1.5mm.
- Rounded edges prevent injury.
- Supplied with a WRAS approved bubbler tap: chrome-plated, instant shut-off and adjustable flow rate, inlet M $\frac{3}{8}$ ".
- Flat perforated waste, without screws: easy to clean and vandal-resistant.
- Recessed horizontal water outlet. Waste outlet 1 $\frac{1}{4}$ ".
- Supplied with fixing elements.
- Weight: 2.4kg.

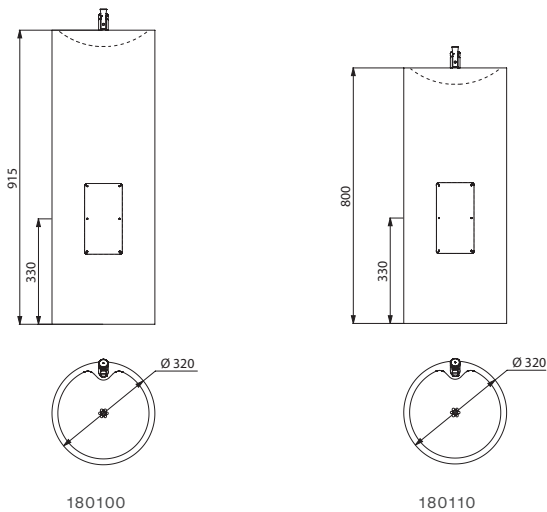




Wall-mounted SD drinking fountain with integrated bubbler tap Polished satin 304 stainless steel		180800
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ILHA and ILHA JR drinking fountains
Floor-standing



- Floor-standing drinking fountain.
- Bacteriostatic 304 stainless steel. Stainless steel thickness: 1.5mm.
- Available in two different heights: 915mm and 800mm for children.
- Supplied with a WRAS approved bubbler tap: chrome-plated, instant shut-off and adjustable flow rate, inlet M $\frac{3}{8}$ ".
- Flat perforated waste, without screws: easy to clean and vandal-resistant.
- Recessed vertical water outlet. Waste outlet 1 $\frac{1}{4}$ ".
- Supplied with fixing elements.
- Weight: 9kg for the 800mm model; 9.6kg for the 915mm model.



Floor-standing ILHA drinking fountain with integrated bubbler tap		
Polished satin 304 stainless steel - Height 915mm		180100
Floor-standing ILHA JR drinking fountain with integrated bubbler tap		
Polished satin 304 stainless steel - Height 800mm		180110

 : dispatch within 4 weeks  : stock item



THE ADVANTAGES OF MINERALSTEEL

Maximum hygiene

MINERALSTEEL washbasins have a non-porous uniform surface which is hygienic and easy to clean. They will withstand regular cleaning and cleaning products. The washbasins are pressed in one piece to avoid joints or seams where dirt or bacteria can build up.

MINERALSTEEL will withstand thermal shocks which help to fight against *Legionella spp.* and *Pseudomonas*.

The design of the MINERALSTEEL washbasins provides a large user space. During hand washing, arms do not come into contact with the washbasin sides.

Warm to the touch, they have all the necessary technical features for use in hospitals and/or public and commercial places.



Easy to clean and maintain

For day-to-day cleaning, we recommend using mild soapy water.

After cleaning, rinse with hot water and dry thoroughly.



Clean lines

MINERALSTEEL washbasins have sleek and simple shapes. Their modern and timeless design will enhance any installation.

Resistance to vandalism

MINERALSTEEL is a **composite material reinforced with fibreglass**. It will withstand shocks, scratches, corrosion and temperatures up to 180°C.

Much lighter than ceramic, MINERALSTEEL also significantly outperforms ceramic in terms of resistance to damage and vandalism.

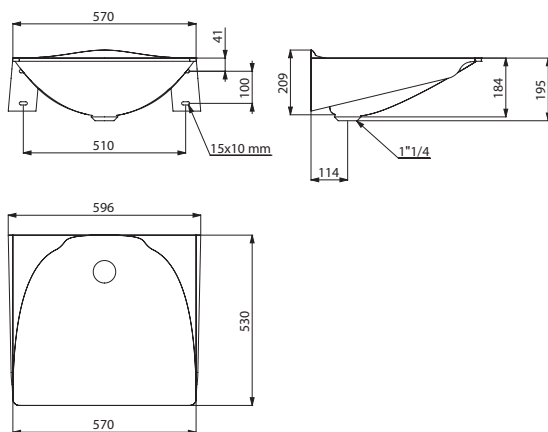
MINERALSTEEL is suitable for all public areas and healthcare facilities.

MINERALSTEEL washbasin

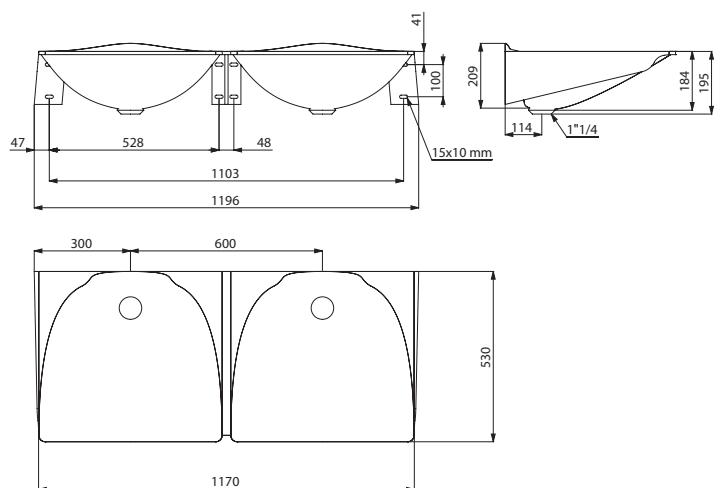
Wall-mounted - Single or double washbasin



- Wall-mounted washbasin. Available with 1 or 2 basins.
- Sleek and smooth lines, with integrated wall brackets.
- MINERALSTEEL: composite material reinforced with fibreglass.
- Ideal for hospitals and healthcare facilities.
- Shallow washbasin suitable for people with reduced mobility.
- Uniform, non-porous surface is easy to clean.
- One-piece pressed washbasin, seam-free, for easy maintenance and better hygiene.
- Designed to prevent any water pooling.
- Warm to the touch.
- Supplied with 1 1/4" waste. Without overflow.
- White, RAL 9010.
- Weight: 7kg for single basin model; 14kg for double basin model.




150022D



450120D

Wall-mounted MINERALSTEEL washbasin without tap hole

MINERALSTEEL - Single basin - L. 570mm		150022D
MINERALSTEEL - Double basin - L. 1,200mm		450120D

 : dispatch within 4 weeks  : stock item



THE ADVANTAGES OF MINERALCAST

Maximum hygiene

MINERALCAST washbasins have a non-porous, uniform surface which is hygienic and easy to clean. They will withstand regular cleaning and cleaning products. The washbasins are cast in one piece to avoid joints or seams where dirt or bacteria can build up.

MINERALCAST will withstand thermal shocks which help to fight against *Legionella spp.* and *Pseudomonas*.

Warm to the touch, they have all the necessary technical features for use in hospitals and/or public and commercial places.

Easy to clean and maintain

For day-to-day cleaning, we recommend using mild soapy water. After cleaning, rinse with hot water and dry thoroughly.



Clean lines

MINERALCAST washbasins have sleek and simple shapes. Their modern and timeless design will enhance any installation.

Resistance to vandalism

MINERALCAST is [a composite material consisting of natural minerals and polyester resin](#).

Thanks to a gel coating, its surface is extremely resistant to physical abuse and chemicals.

Any damage caused can be easily repaired.

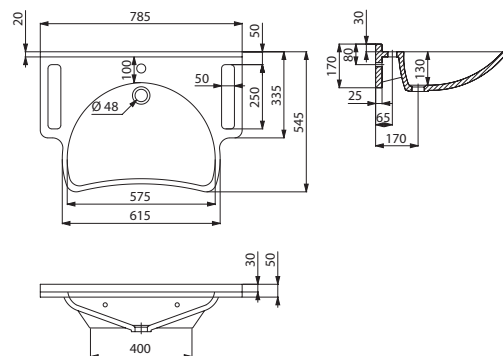
MINERALCAST is suitable for all public areas and healthcare facilities.

MINERALCAST PMR washbasin

Wall-mounted - Single washbasin



- Wall-mounted washbasin.
- With integral side grips which can be used as a support or a towel holder.
- Sleek and smooth lines.
- MINERALCAST: composite material consisting of natural minerals and polyester resin.
- Ideal for hospitals and healthcare facilities.
- Shallow washbasin suitable for people with reduced mobility.
- Uniform, non-porous surface is easy to clean.
- One-piece cast washbasin, seam-free, for easy maintenance and better hygiene.
- Warm to the touch.
- Without overflow.
- Supplied with fixing elements.
- White, RAL 9016.
- Weight: 21.5kg.



132306

Wall-mounted MINERALCAST PMR washbasin
with central tap hole Ø 35mm
MINERALCAST - Single basin - L. 785mm

**132306**

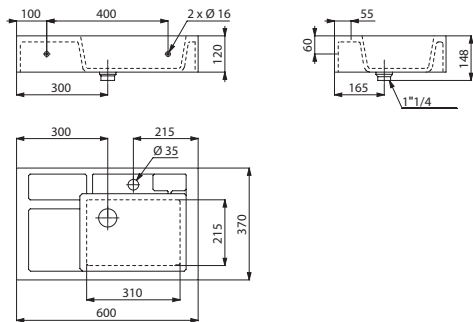
⌚ : dispatch within 4 weeks 📦 : stock item

MINERALCAST sink



Wall-mounted or countertop





- Wall-mounted or countertop sink.
- With 120mm apron on each side, drainer, soap holder and sponge holder.
- MINERALCAST: composite material consisting of natural minerals and polyester resin.
- Ideal for hospitals and healthcare facilities.
- Uniform, non-porous surface is easy to clean.
- One-piece cast washbasin, seam-free, for easy maintenance and better hygiene.
- Warm to the touch.
- Supplied with 1 1/4" waste.
- Without overflow.
- White, RAL 9016.
- Weight: 23kg.



132300

Wall-mounted MINERALCAST sink with central tap hole Ø 35mm		
MINERALCAST - Sink on the right		132300
MINERALCAST - Sink on the left		132303

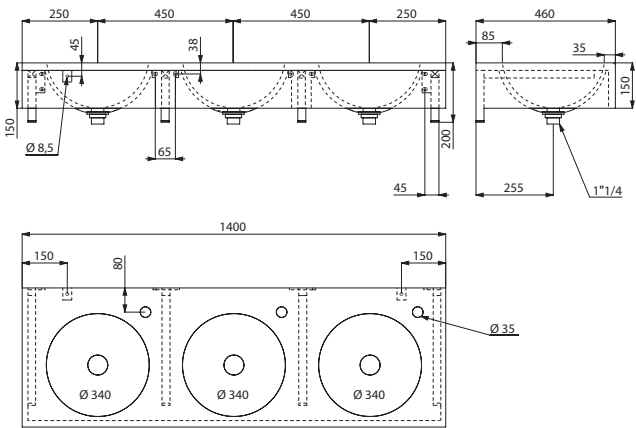
 : dispatch within 4 weeks  : stock item

MINERALCAST multiple washbasin



Wall-mounted - Double or triple washbasin



- Wall-mounted multiple washbasin.
- Available with 2 or 3 basins, without separators.
- MINERALCAST: composite material consisting of natural minerals and polyester resin.
- Ideal for hospitals and healthcare facilities.
- Uniform, non-porous surface is easy to clean.
- One-piece cast washbasin, seam-free, for easy maintenance and better hygiene.
- Warm to the touch.
- Supplied with 1 1/4" waste. Without overflow.
- Supplied with fixing elements.
- White, RAL 9016.
- Weight: 42kg for double basin model; 60kg for triple basin model.



409140

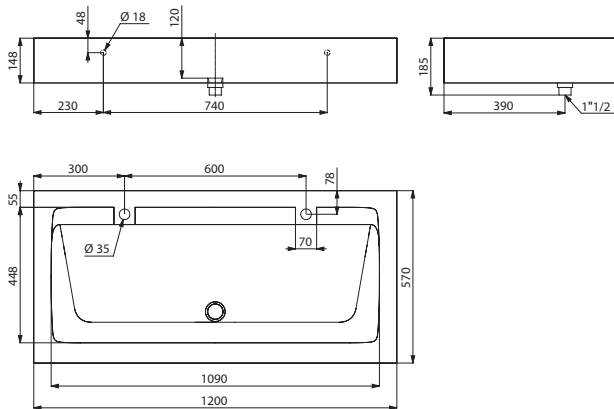
Wall-mounted MINERALCAST washbasin with right tap hole Ø 35mm		
MINERALCAST - Double basin - L. 1,000mm		409100
MINERALCAST - Triple basin - L. 1,400mm		409140

MINERALCAST wash trough

Wall-mounted - 2 or 3 posts



- Wall-mounted wash trough.
- Available with 2 or 3 posts.
- MINERALCAST: composite material consisting of natural minerals and polyester resin.
- Ideal for hospitals and healthcare facilities.
- Uniform, non-porous surface is easy to clean.
- One-piece cast washbasin, seam-free, for easy maintenance and better hygiene.
- Warm to the touch.
- Supplied with 1½" waste. Without overflow.
- Supplied with fixing elements.
- White, RAL 9016.
- Weight: 64kg for double basin model; 90kg for triple basin model.
- MINERALCAST pedestal model in anthracite also available.



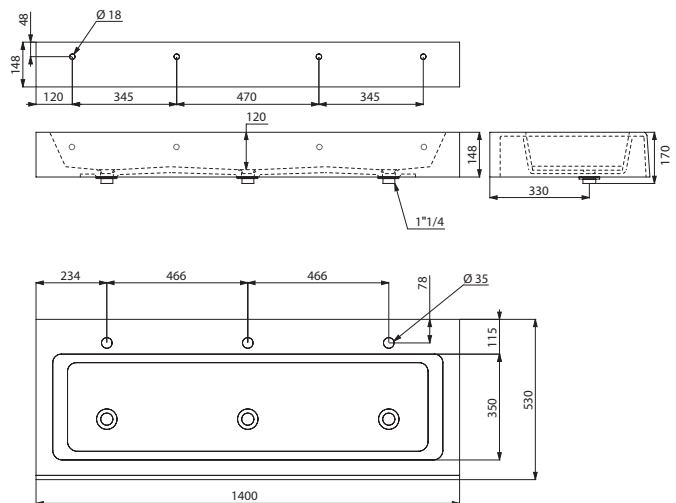
454122

MINERALCAST wash trough

Wall-mounted - 3 posts



- Wall-mounted wash trough, 3 posts.
- MINERALCAST: composite material consisting of natural minerals and polyester resin.
- Ideal for hospitals and healthcare facilities.
- Uniform, non-porous surface is easy to clean.
- One-piece cast wash trough, seam-free, for easy maintenance and better hygiene.
- Warm to the touch.
- With incline to prevent water pooling.
- Supplied with 1¼" waste. Without overflow.
- Supplied with fixing elements.
- White, RAL 9016.
- Weight: 63kg.

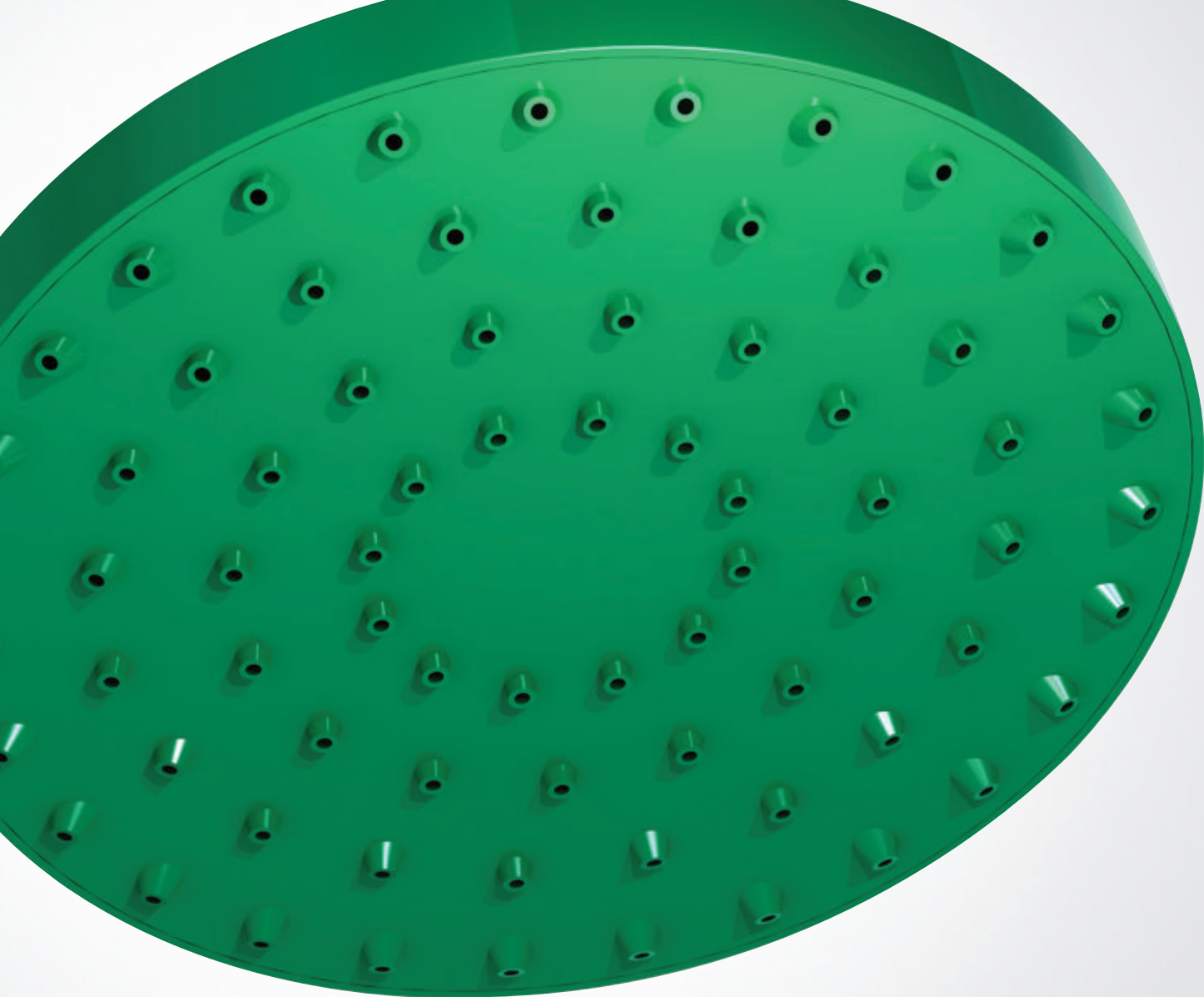


453140

Wall-mounted MINERALCAST wash trough without tap hole		
MINERALCAST - 2 posts - L. 1,200mm		454120
MINERALCAST - 3 posts - L. 1,800mm		454180
Wall-mounted MINERALCAST wash trough with central tap hole Ø 35mm		
MINERALCAST - 2 posts - L. 1,200mm		454122
MINERALCAST - 3 posts - L. 1,800mm		454182
MINERALCAST pedestal		
MINERALCAST - H. 700mm - Anthracite		454001A
MINERALCAST - H. 850mm - Anthracite		454010

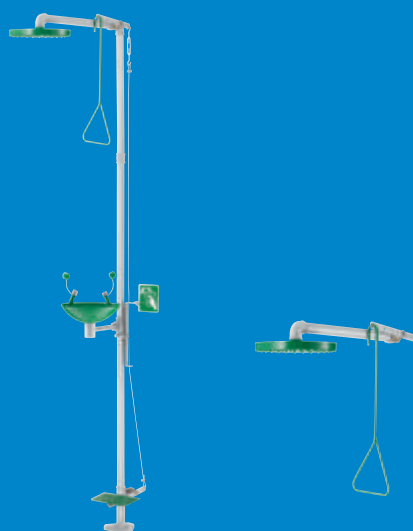
Wall-mounted MINERALCAST wash trough with central tap hole Ø 35mm		453140
MINERALCAST - 3 posts - L. 1,400mm		

: dispatch within 4 weeks : stock item



Safety controls

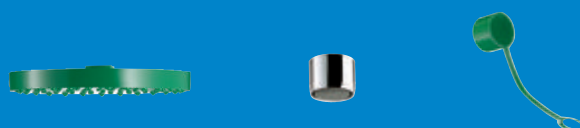
SAFETY SHOWERS 212

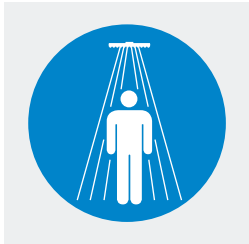


EYE WASH STATIONS 214



ADDITIONAL FITTINGS 216





Even, conical flow



Optimised rinsing for eyes



Frost-free system comes as standard



SAFETY CONTROLS: SPECIFICALLY DESIGNED FOR RAPID DECONTAMINATION

In order to address the risk of contamination to the body, face and/or eyes posed by harmful chemicals, DELABIE has developed a range of safety controls. DELABIE safety showers and eye wash stations provide users with an **efficient decontamination** facility at the site of the incident, especially during the initial treatment phase.

Safety

The shower head with spray diffuser ensures an optimised spray for the whole body. The diameter and orientation of the diffuser ensures an **even, conical flow**.

The spray heads are fitted with aerators and stainless steel double filters to prevent any large debris in the water pipes coming into contact with the eyes. Protective caps prevent dust and other airborne contaminants entering the valve. The controls are easy to access.

Reliable

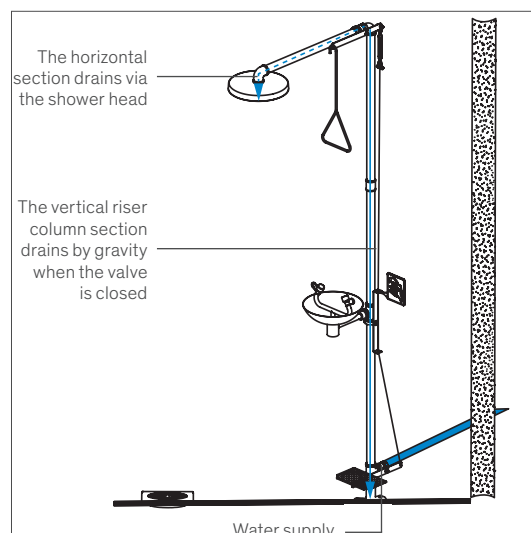
DELABIE safety controls are fitted with **frost-free mechanisms as standard** (see below). They are made from corrosion-resistant materials.

Frost-free system as standard

Most safety equipment is installed outside or in buildings that are not heated. DELABIE safety controls are fitted with frost-free systems as standard and can be installed inside or outside buildings.

The frost-free system ensures that the riser column and shower head will deliver a proper spray with every use (see below).

The upstream supply pipework must also be protected from freezing temperatures.



Efficient

DELABIE safety controls deliver large flow rates which ensure rapid decontamination:

- Eye wash stations: flow rate 20 lpm at 3 bar.
- Showers: flow rate 70 lpm at 1 bar dynamic pressure (120 lpm at 3 bar dynamic pressure).

The diameter and position of the 74 holes in the shower head are designed for optimised rinsing.

User comfort

The protective caps eject automatically with the pressure when the equipment is activated. The spray heads are fitted with aerators which ensure a **gentle spray** to avoid further injury to the user.

Quick to install

DELABIE safety controls are quick and easy to install. A mixed, potable water supply should be considered (DELABIE recommends installing a thermostatic mixing valve depending on the nature and flow rate of the equipment, see page 90).

So that the safety controls can be easily identified, green identification signs are supplied with each item.

Easy to operate

DELABIE's safety controls are designed to be **quick and easy to operate**.

Water flows when the triangular handle is pulled, the foot pedal is pressed or the hand control is pulled towards the user.

Compliance

The safety controls comply with the following European standards:

- Safety showers: European standard EN15154-1.
- Eye wash stations: European standard EN15154-2.
- Identification signs: International standard ISO 3864-1 covering graphic symbols, safety colours and safety signs in the work place and public places. This standard is included in the European directive 92/58/CEE.

AND ALSO...

Easy to maintain

Standard parts **can be replaced without dismantling the equipment**. Maintenance staff can change the parts quickly and easily.

The equipment must be checked every 15 days to ensure that it is in good working order.

10-year warranty against any manufacturing defect.

**CIRCULAR
SHOWER HEAD**
Even, conical flow



**IDENTIFICATION
SIGN
FOR SAFETY
SHOWERS**

ERGONOMIC HANDLE
activates shower
and eye wash simultaneously



**GALVANISED STEEL
RISER COLUMN**
Reliable

**IDENTIFICATION SIGN
FOR EYE WASH STATIONS**



**EYE WASH STATION WITH
GENTLE SPRAY**
User comfort



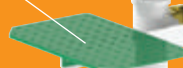
STAINLESS STEEL BASIN
Reliable

DRAINAGE
F1¼"



MANUAL CONTROL
activates eye wash

FOOT CONTROL
activates eye wash



WATER INLET F1"

BRASS FIXING PLATE
Reliable



- **Effective:** large flow rates for rapid decontamination
- **Frost-free protection:** frost-free system as standard, riser column and shower head drain
- **Comfort:** quick and easy to activate, gentle spray for users

Eye wash and shower combination

Free-standing



- **Frost-free system as standard.**
- 304 stainless steel basin Ø 250mm with green finish.
- Eye wash spray heads fitted with protective caps in shockproof, green ABS. Caps eject automatically when eye wash is activated.
- **Flow rate 20 lpm** at 3 bar, aerators with stainless steel double filters.
- Circular shower head Ø 250mm in green, shockproof ABS.
- **Flow rate 70 lpm** at 1 bar dynamic pressure (120 lpm at 3 bar dynamic pressure).
- Water supply F1".
- Pipework made of galvanised steel, grey epoxy coated finish. Triangular pull handle in green epoxy coated brass. Hand and foot controls in green epoxy coated galvanised steel.
- Fixed to the floor by a brass plate (screws not included).
- Supplied with identification signs for first aid equipment: "Safety Shower" and "Eye Wash".

Operation:

¼-turn, nickel-plated brass valves open and close quickly.

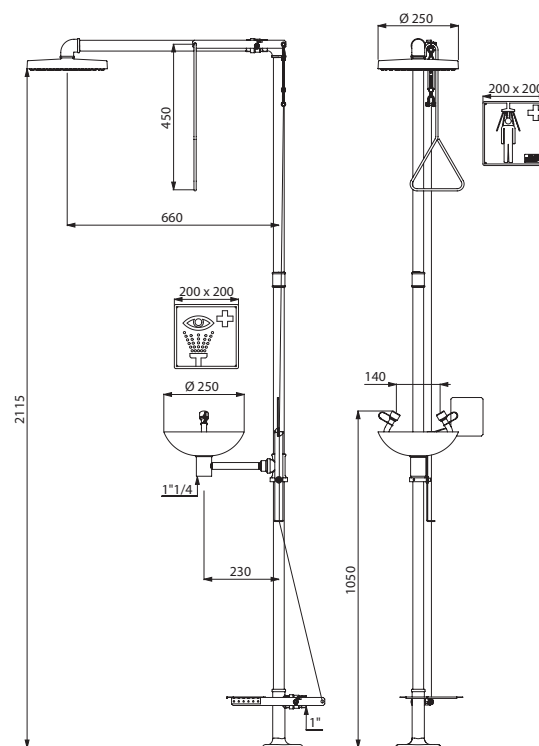
Simultaneous Eye Wash and Shower:

- Water flows simply by pulling on the triangular handle. The flow will continue even when the handle is released.
- The flow will stop when the handle is returned to its original position.

Eye wash only:

- Water flow is operated by the foot pedal or the hand control. The eye wash will continue to flow when the pedal or hand control is released.
- The water flow will stop when the hand control is pulled towards the user or the foot pedal is raised.

The water does not shut off automatically, allowing the injured person to have both hands free (to remove their clothing, keep their eyes open, etc.).



9203

Eye wash and shower combination	9203
We recommend a TMV (see page 90) and a floor trap (see page 155)	



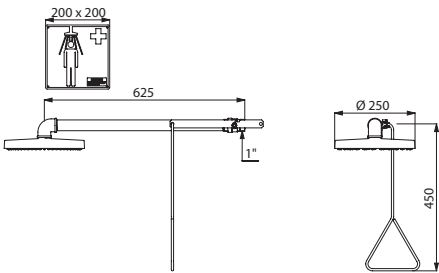
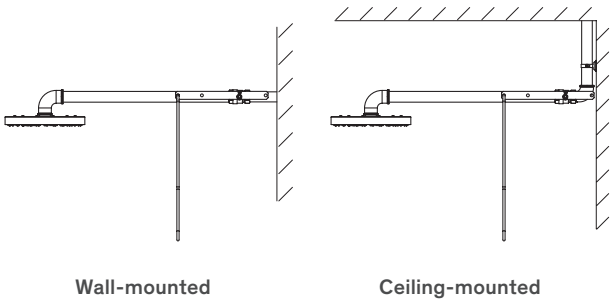
- **Effective:** large flow rate for rapid decontamination
- **Frost-free protection:** frost-free system as standard, shower head drains
- **Comfort:** quick and easy to activate, gentle spray for users

Wall-mounted recessed safety shower

Horizontal model with manual control



- **Frost-free system as standard.**
- Circular shower head Ø 250mm in green, shockproof ABS.
- ¼-turn, nickel-plated brass valve opens and closes quickly.
- Water flows simply by pulling on the triangular handle.
- The flow will continue even when the handle is released.
- The flow will stop when the handle is returned to its original position.
- **Flow rate 70 lpm** at 1 bar dynamic pressure (120 lpm at 3 bar dynamic pressure).
- Water supply F1".
- Pipework made of galvanised steel, grey epoxy coated finish.
- Triangular pull handle in green epoxy coated brass.
- Supplied with identification sign for first aid equipment: "Safety Shower".
- For cross wall installation, with recessed supply, or for mounting on a false ceiling (we recommend a 1" mounting bracket).



9108

Wall-mounted safety shower	9108
We recommend a TMV (see page 90) and a floor trap (see page 155)	



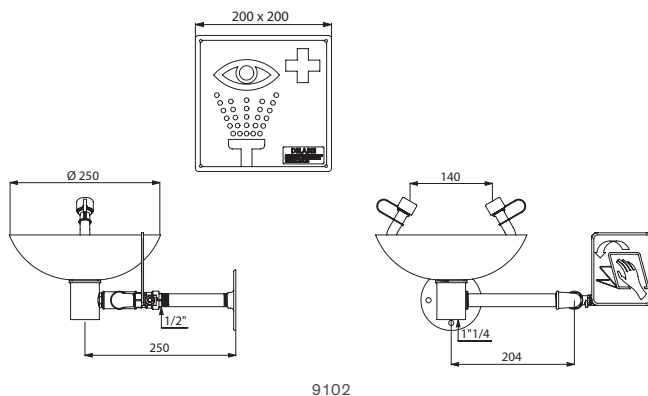
- **Effective:** large flow rate for rapid decontamination
- **Safety:** eye wash spray heads fitted with protective caps, stainless steel filters stop debris coming into contact with eyes
- **Frost-free protection:** frost-free system as standard, free-standing model drains automatically
- **Comfort:** quick and easy to activate, gentle spray for users

Wall-mounted eye wash station

Manual control



- 304 stainless steel basin Ø 250mm coated in green epoxy.
- Eye wash spray heads fitted with protective caps in green ABS; will eject automatically when activated.
- ¼-turn, nickel-plated brass valve opens and closes quickly.
- Water flow is activated by the hand control. The eye wash will continue to operate when the hand control is released.
- The water flow will stop when the hand control is pulled towards the user.
- **Flow rate 20 lpm** at 3 bar, aerators with stainless steel double filters.
- Water supply M½".
- Pipework made of galvanised steel, epoxy coated grey finish.
- Hand control in green epoxy coated galvanised steel.
- Wall-mounted on a brass plate (screws not included).
- Supplied with identification sign for first aid equipment: "Eye Wash".



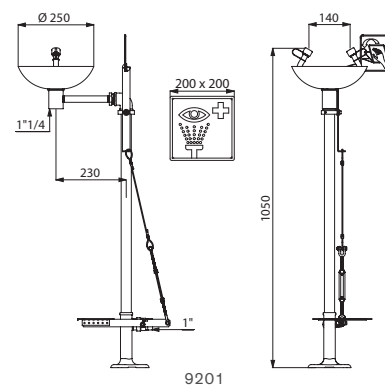
Wall-mounted eye wash station	9102
We recommend a TMV (see page 90) and a floor trap (see page 155)	

Free-standing eye wash station

Manual and pedal control



- **Frost-free system as standard.**
- 304 stainless steel basin Ø 250mm coated in green epoxy.
- Eye wash spray heads fitted with protective caps in green ABS; will eject automatically when activated.
- ¼-turn, nickel-plated brass valves open and close quickly.
- Water flow is activated by hand or foot control. The eye wash will continue to operate when the hand or foot control is released.
- The water flow will stop when the hand control is pulled towards the user or the foot pedal is raised.
- **Flow rate 20 lpm** at 3 bar, aerators with stainless steel double filters.
- Water supply F1".
- Pipework made of galvanised steel, epoxy coated grey finish.
- Hand and foot controls in green epoxy coated galvanised steel.
- Fixed to the floor by a brass plate (screws not included).
- Supplied with identification sign for first aid equipment: "Eye Wash".



Free-standing eye wash station	9201
We recommend a TMV (see page 90) and a floor trap (see page 155)	



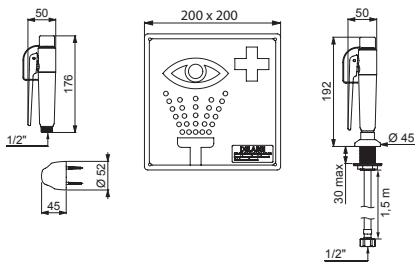
- **Effective:** large flow rate for rapid decontamination
- **Safety:** eye wash spray heads fitted with protective caps, stainless steel filters stop debris coming into contact with eyes
- **Comfort:** ergonomic grip in green polypropylene

Single spray eye wash

Trigger-operated



- Eye wash spray head fitted with protective cap in green ABS; will eject automatically when activated.
- Press the trigger to operate eye wash spray.
- A spring automatically shuts off spray.
- **Flow rate 16 lpm** at 3 bar, aerator with stainless steel double filter.
- Ergonomic grip and trigger in green polypropylene.
- Supplied with identification sign for first aid equipment: "Eye Wash".



9120C

9140C

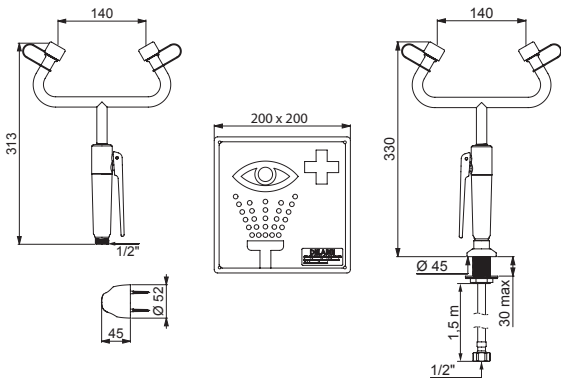
Trigger-operated eye wash - single spray	
Wall-mounted with support	9120C
Deck-mounted, flexible L. 1.50m 15 x 100 1/2"	9140C
We recommend a TMV (see page 90) and a floor trap (see page 155)	

Dual spray eye wash

Trigger-operated



- Eye wash spray heads fitted with protective caps in green ABS; will eject automatically when activated.
- Press the trigger to operate eye wash spray.
- A spring automatically shuts off spray.
- **Flow rate 15 lpm** at 3 bar, aerators with stainless steel double filters.
- Ergonomic grip and trigger in green polypropylene.
- Supplied with identification sign for first aid equipment: "Eye Wash".



9121

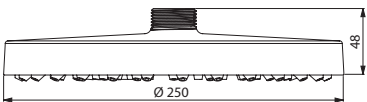
9141

Trigger-operated eye wash - dual spray	
Wall-mounted with support	9121
Deck-mounted, flexible L. 1.50m 15 x 100 1/2"	9141
We recommend a TMV (see page 90) and a floor trap (see page 155)	

Shower head



- Circular shower head Ø 250mm M1".
- Green, shockproof ABS.
- **Flow rate 70 lpm** at 1 bar dynamic pressure (120 lpm at 3 bar dynamic pressure).
- Water supply F1".

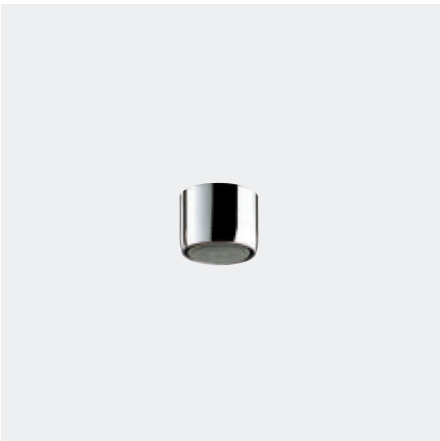


9225

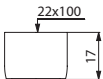
Shower head	9225
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Aerator F22/100

With grid for comfortable spray



- Aerator F22/100 with grid for comfortable spray.
- For hand sprays ref. 9120C, 9140C, 9121 and 9141 or for eye wash stations ref. 9102, 9201 and 9203.

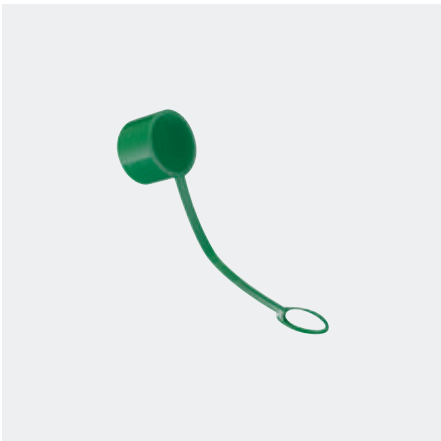


A22D75

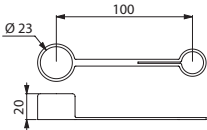
Aerator F22/100	
For hand sprays	A22D75
For eye wash stations	A22LY75

Protective caps

For aerators



- Protective caps in green, shockproof ABS to protect the spray heads.
- Eject automatically when eye wash is activated.
- Supplied in packs of 2.



91AA75

Protective caps	91AA75
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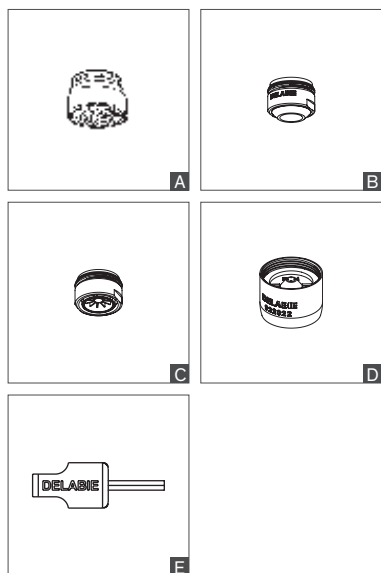


Spare parts Certification Reference index

SPARE
PARTS
220

CERTIFICATION
& STANDARDS
224

REFERENCE
INDEX
228



Spout outlets

Scale-resistant aerators (with brass collar)

F22/100 (5 pieces)	22.5P	-
M24/100 (5 pieces)	24.5P	A
M28/100 (2 pieces)	28.2P	-

BIOSAFE outlets (free flow outlet with no grid or partitions in contact with water) with brass collar

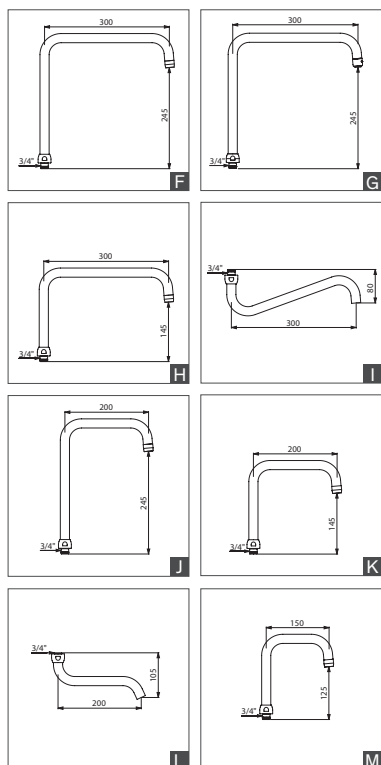
F22/100 (1 piece) for basin taps / mixers 5 lpm	923022	-
M24/100 (1 piece) for basin taps / mixers 5 lpm	923024	B
F22/100 (1 piece) for basin taps / mixers 9 lpm	924022	-
M24/100 (1 piece) for basin taps / mixers 9 lpm	924024	-

Hygienic flow straighteners (star-shaped with no grid: reduces bacterial development) with brass collar

F22/100 (2 pieces)	921022.2P	-
F22/100 (50 pieces)	921022.50P	-
M24/100 (2 pieces)	921024.2P	C
M24/100 (50 pieces)	921024.50P	C

Flow straighteners at 3 lpm (flow rate can be adjusted by 2.5mm Allen key) with brass collar

F22/100 (2 pieces)	922022.2P	D
M24/100 (2 pieces)	922024.2P	-
2.5mm Allen key	C282025	E



Spouts

Spouts L. 300mm

Over spout Ø 22mm, H. 245mm

with nut 3/4", flow straightener inserted	963300245F	F
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Over spout Ø 22mm, H. 245mm

with nut 3/4" and BIOSAFE outlet	963300923F	G
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Over spout Ø 22mm, H. 145mm

with nut 3/4", flow straightener inserted	963300145F	H
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Under spout Ø 22mm, H. 80mm

with nut 3/4" and flow straightener, not threaded	943300110	I
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Spouts L. 200mm

Over spout Ø 22mm, H. 245mm

with nut 3/4", flow straightener set at 3 lpm (can be adjusted by 2.5mm Allen key)	963200245F	J
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Over spout Ø 22mm, H. 145mm

with nut 3/4", flow straightener inserted	963200145F	K
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Over spout Ø 22mm, H. 145mm

with nut 3/4" and BIOSAFE outlet	963200923F	-
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Under spout Ø 22mm, H. 105mm

with nut 3/4" and flow straightener, not threaded, for mixer 2519	943200100M	L
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Spouts L. 150mm

Over spout Ø 22mm, H. 125mm

with nut 3/4", flow straightener set at 3 lpm (can be adjusted by 2.5mm Allen key)	963150125F	M
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Over spout Ø 22mm, H. 125mm

with nut 3/4" and BIOSAFE outlet	963150923F	-
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Solenoid valves

12V MM½" for washbasins	495626	N
12V MM¾" for washbasins	495612	N
12V MM1" for WCs except 463326	461035	-
12V MM1" for WC 463326	461034	-
6V for TEMPOMATIC (MIX) 3	479649	O
6V for TEMPOMATIC (MIX) 4	479648	O
6V MM½" for TEMPOMATIC (MIX) 1 & 2, BINOPTIC (MIX)	495646	P
6V MM¾" for TEMPOMATIC (MIX) 1 & 2, BINOPTIC (MIX)	495606	-
6V MM½" for TEMPOMATIC shower panels	495615	-

Electronic control units

230/12V standard with "duty flush" option, with transformer for washbasins	495444BC	Q
6V with integrated battery for TEMPOMATIC (MIX) 3 washbasin	492446	R
6V with integrated battery for TEMPOMATIC (MIX) 4 washbasin	490446	S
6V for TEMPOMATIC (MIX) 4 mains supply	490450	S
230/12V multifunction with transformer for washbasins, showers, flush type 461...	495445BC	Q
6V battery-operated for washbasins	495446BC	Q
230/12V multifunction with transformer for dual flush type 463...	463000	T

NB: for mixers with high spout and lever (refs. 20464, 20164, 20465, 20165, etc.).
The sensor should be replaced at the same time as the control unit.

Power supplies

Recessed supply for TEMPOMATIC (MIX) 4, mains supply	490240	U
British plug for TEMPOMATIC (MIX) 4, mains supply	490230EXT	-
Extension for TEMPOMATIC (MIX) 4, mains supply	490241UK	V

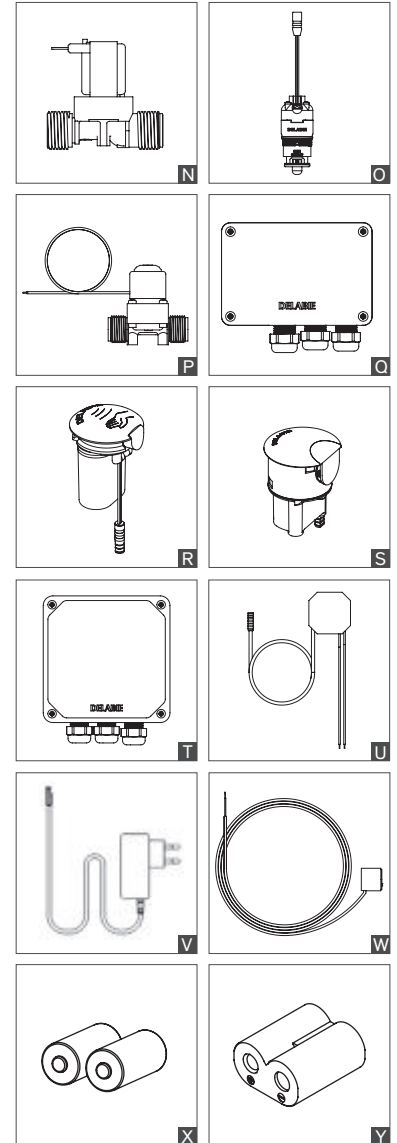
Sensors (same model for basins, mains supply or battery-operated)

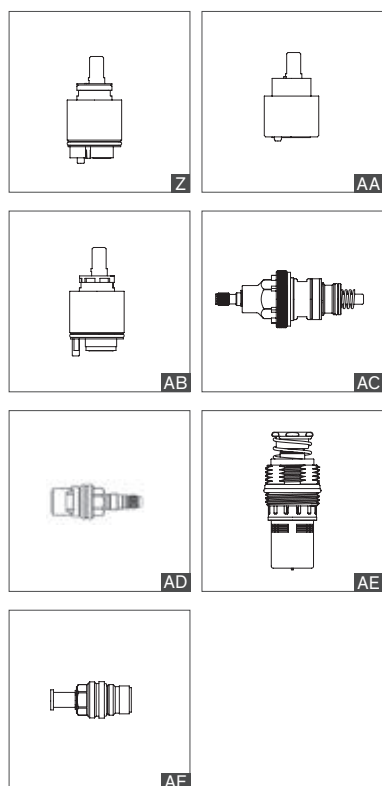
With cable 0.70m	495070	W
With cable 1.50m	495149	W
With cable 5.00m	495499	W
For washbasins: BINOPTIC (MIX) and TEMPOMATIC (MIX) 2, 20164Tx, 20464Tx, cable 0.70m	CEL378V	-
For washbasins: BINOPTIC (MIX) and TEMPOMATIC (MIX) 2, cable 1.50m	CEL378150V	-
For washbasins: BINOPTIC (MIX) and TEMPOMATIC (MIX) 2, cable 5.00m	CEL378499V	-
For TEMPOMATIC WC voluntary/automatic, with cable	463399	W

NB: the cable should not be extended or cut.

Batteries

2 × 3V Lithium batteries 123/CR 17345 for electronic unit 495446BC	990123	X
1 × 6V Lithium battery 223/CR - P2	990223	Y




Basins, sinks and showers

	Maintenance kit	Complete cartridge	Type
For mixers with ceramic cartridge			
Ranges 2200, 2400, 2600, 2700, 2800 and electronic mixers			
Ø 40mm cartridges			
Standard cartridges			
With base, without flow rate limiter	-	N009AG75	Z
for refs. 2206, 2210, 2220, 2211, 2211L, 2221, 2239, 2252, 2406, 2420, 2421, 2439, 2446, 2452, 2520, 2521, 2523, 2565, 20121, 20421, 2538, 2539, 2720, 2721, 2739, 2820, 2821			
With base, without flow rate limiter	-	N109AG75	-
for refs. 2439, 2446			
Without base, with flow rate limiter	-	N201AG75	-
for refs. 20164T1, 20164T4, 20464T1, 20464T4, 20870T1, 20870T3, 20871T1, 20871T3			
Without base, without flow rate limiter	-	N148AA75	-
for refs. 2542, 2211, 2211L and 2599 (up to 12/2016), 2597			
Without base, with flow rate limiter	-	N248AA75	AA
for refs. 2211, 2246, 2410, 2443, 2510, 2519, 2522, 2542, 2561C, 2562C, 2564, 2569, 2595, 2870 and refs. 20870 and 20164/20464 (up to 02/2012)			
Pressure balancing cartridges			
With base	-	N252	AB
for refs. 2211EP, 2211LEP, 2439EP, 2446EP, 2446LEP, 2520EP, 2521EP, 2565TxEP, 2720EP, 2721EP, 2739EP, 2820EP, 2821EP			
Ø 35mm cartridges			
Standard cartridge			
With base	-	NS262	-
for refs. 2506T1, 25061T1, 2506T2, 2506T3, 2542, 2599, 2620, 26206, 2621, 26216, 2620MINI, 26206MINI, 2621MINI, 26216MINI			
Pressure balancing cartridge			
With base	-	N262	-
for refs. 2542EP, 2599EP, 2620EP, 26206EP, 2621EP, 26216EP, 2620MINIEP, 26206MINIEP, 2621MINIEP, 26216MINIEP			
For mixers with thermostatic cartridges			
Thermostatic sequential cartridge	-	N96	-
for refs. H9611P, H9614P, H9615			
Thermostatic sequential cartridge	-	N96L	-
for refs. H9600, H9605, H9612, H9613, H9642			
Thermostatic sequential cartridge	-	N9630	-
for refs. H9630, H963015, H9632, H9640, H964015, H9641, H964115			
Thermostatic cartridge	-	N97L	-
for refs. H9739, H9739S			
Thermostatic cartridge	-	N97LR	AC
for refs. H9741TP, H9752P			
Thermostatic cartridge	-	N9719	-
for refs. H9726, H9716			
Thermostatic cartridge	-	N9726	-
for ref. H9719P			
½" Ceramic head, ¼-turn	-	P9775	AD
for refs. since 02/2010			
For mixers with valve head or ceramic head			
Guided valve head Ø 22.5mm + cover	-	P120AA75	AE
for range 5800 except 5807 and 5808			
For non-contact controls			
TEMPOGENOU	753005	743305	AE
for refs. 734100, 735100, 735000, 735400, 73544715			
MONOFOOT	753736	-	-
for refs. 736001, 736101, 736102			
MIXFOOT	753739	-	-
for refs. 739000, 739100, 739102			
For DISTRISAVON			
for refs. 729008, 729108, 729508	729302	729308	-
for refs. 729012, 729112, 729512	729302	729312	-
for refs. 729150, 729200	729302	729303	-

WC

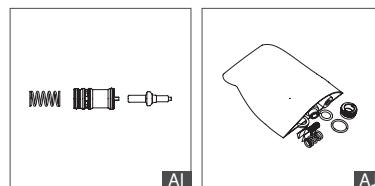
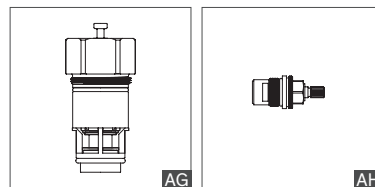
	Maintenance kit	Complete cartridge	Type
For TEMPOFLUX			
for refs. 762901, 762902	-	743622	AG
for ref. 762150	-	743623	-
For frame systems with TEMPOFLUX			
for refs. 576211, 578300, 578305	-	743622	AG
for refs. 576227, 578400, 578405	-	743677	-
Tamperproof screws			
4 tamperproof TORX M5×25 screws and rawl plugs	-	999049	-

Bed pan cleaners

½" Ceramic head, ¼-turn right	-	P482AJ75	AH
for refs. 158100, 2591, 2592, 2594			

Group thermostatic mixing valves

Maintenance kit for PREMIX NANO			
for refs. 733015, 733016, 733020, 733021	-	743732	AI
Maintenance kit for ECONOMIX			
15mm combi angled inlet assembly (2 per pack)	-	BA9915	AJ
22mm combi angled inlet assembly (2 per pack)	-	BA9922	AJ
ECONOMIX TMV's repair kit	-	500920	AJ



WATER REGULATIONS ADVISORY SERVICE



All sanitary fittings that deliver water from a public mains water supply must comply with the Water Supply (Water Fittings) Regulations (1999) or Scottish Byelaws.

These fittings must be of an 'appropriate quality and standard' and must not contaminate the water or cause wastage.

Products that are WRAS approved demonstrate this compliance and are recognised by all water suppliers in the UK.

TMV3 SCHEME



The TMV scheme is an independent third party approval scheme administered by BuildCert. The scheme certifies that Type 3 thermostatic mixing valves conform to performance requirements of the NHS specification D08 in Healthcare and Commercial applications in the UK.

BuildCert also certifies Type 2 thermostatic mixing valves destined for use in domestic applications to ensure the safe use of hot water in domestic premises.

Reference	Product	WRAS Certificate	Expiry Date	BuildCert Certificate	Expiry Date	Page
20040.10P	10 × BIOFIL sterile spouts with integrated filter L138mm Ø22	WRAS1510016	31/10/20			27
20050A.10P	10 × BIOFIL sterile cartridge A with integrated filter	WRAS1611078	30/11/21			28
20050P.10P	10 × BIOFIL sterile cartridge P with integrated filter	WRAS1611078	30/11/21			28
20060.10P	10 × BIOFIL sterile shower head with integrated filter	WRAS1611079	30/11/21			29
20061.10P	10 × BIOFIL sterile threaded shower head with integrated filter	Applied for				29
2420	*Mechanical basin mixer H.60 waste (while stk then 2620MINI)	WRAS1301026	31/01/18			-
2420L	*Mechanical basin mixer H.60 waste (while stk then 2620MINI)	WRAS1301026	31/01/18			-
2439	Securitouch mech sh mixer btm outlet sculpt lever offset SP	WRAS1511019	30/11/20			136
2439EP	Securitouch EP shower mixer btm out, sculpt lever, offset SP	WRAS1511019	30/11/20			130
2443	Recessed mechanical shower mixer behind wall plate Ø116	WRAS1511020	30/11/20			140
2446	Wall mtd mechanical sink mixer swivel spout L200mm offset SP	WRAS1512007	31/12/20			86
2446L	Wall mtd mech sink mixer swivel spt L200mm Hygiene lever SP	WRAS1512007	31/12/20			86
2510	Mechanical sink mixer swivel spout H150 L230mm sculpt lever	WRAS1311046	30/11/18			80
2510L	Mechanical sink mixer swivel spout H150 L230mm Hygiene lever	WRAS1311046	30/11/18			80
2520	Mechanical basin mixer H.85mm L.135mm + waste, sculpt lever	WRAS1301026	31/01/18			79
2520L	Mechanical basin mixer H.85mm L.135mm + waste, Hygiene lever	WRAS1301026	31/01/18			79
2520T	Mechanical basin mixer H.85mm L.135mm + waste, solid lever	WRAS1301026	31/01/18			79
2522L	Mechanical basin mixer with swivel spout H95mm Hygiene lever	WRAS1311046	30/11/18			80
2522T	Mechanical basin mixer with swivel spout H95mm, solid lever	WRAS1311046	30/11/18			80
2543	Recessed waterproof shower mixer, kit 2/2 (+790BOX)	WRAS1511020	30/11/20			140
2564T1	Mechanical mixer high swivel spout H160 L160mm Hygiene lever	WRAS1311046	30/11/18			83
2564T2	Mechanical mixer high swivel spout H160 L250mm Hygiene lever	WRAS1311046	30/11/18			83
2564T3	Mechanical mixer high swivel spout H300 L160mm Hygiene lever	WRAS1311046	30/11/18			83
2564T4	Mechanical mixer high swivel spout H300 L250mm Hygiene lever	WRAS1311046	30/11/18			83
2720L	Mechanical basin mixer H.85mm L.120mm + waste, Hygiene lever	WRAS1603021	31/03/21			78
2720LEP	EP basin mixer H.85mm L.120mm + waste, Hygiene lever	WRAS1603020	31/03/21			68
2720T	Mechanical basin mixer H.85mm L.120mm + waste, solid lever	WRAS1603021	31/03/21			78
2720TEP	EP basin mixer H.85mm L.120mm + waste, solid lever	WRAS1603020	31/03/21			68
2739	Securitouch mech. sh. mix, sculpt lever bottom outlet, SP	WRAS1511019	30/11/20			136
2739EP	SECURITHERM EP shower mixer, sculptured lever, offset SP	WRAS1511019	30/11/20			130
2820L	BIOCLIP mechanical basin mixer H85mm + waste, Hygiene lever	WRAS1603021	31/03/21			78
2820LEP	BIOCLIP EP basin mixer H85mm + waste, Hygiene lever	WRAS1603020	31/03/21			68
2820T	BIOCLIP mechanical basin mixer H85mm + waste, solid lever	WRAS1603021	31/03/21			78
2820TEP	BIOCLIP EP basin mixer H85mm + waste, solid lever	WRAS1603020	31/03/21			68
2870T1	Mixer with BIOCLIP swivel spout H160 + 2 st steel spouts	WRAS1311046	30/11/18			82
2870T3	Mixer with BIOCLIP swivel spout H300 + 2 st steel spouts	WRAS1311046	30/11/18			82
30040.10P	10 × BIOFIL spouts with integrated filter L.138mm Ø22	WRAS1611077	30/11/21			27
30050A.10P	10 × BIOFIL cartridge A with integrated filter	WRAS1611078	30/11/21			28
30050P.10P	10 × BIOFIL cartridge P with integrated filter	WRAS1611078	30/11/21			28

Reference	Product	WRAS Certificate	Expiry Date	BuildCert Certificate	Expiry Date	Page
30060.10P	10 × BIOFIL shower head with integrated filter	WRAS1611079	30/11/21			29
30061.10P	10 × BIOFIL threaded shower head with integrated filter	Applied for				29
312QU1	Bubbler tap chromed M3/8" for fountain	WRAS1401017	31/01/19			201
378015	BINOPTIC basin tap M3/8" mains 230/12V + trans	WRAS1405016	31/05/19			38
378MCH	BINOPTIC MIX basin mixer M3/8" mains 230/12V + trans	WRAS1405016	31/05/19			38
379D13	BINOPTIC c-wall 190 basin tap M3/8"spout L135 mains + trans	WRAS1405015	31/05/19			39
379DER	BINOPTIC c-wall 190 basin tap M3/8"spout L205 mains + trans	WRAS1405015	31/05/19			39
379ENC	BINOPTIC rec basin tap M3/8" spout L200 mains + trans	WRAS1405015	31/05/19			39
379MCH	BINOPTIC MIX c-wall 110 basin mix M3/8" mains 230/12V +trans	WRAS1405015	31/05/19			39
44000115	TEMPOMATIC 4 basin tap M1/2" rec UK mains plug Ø15 stopcock	WRAS1603070	31/03/21			37
440006	TEMPOMATIC 4 basin tap F3/8" int. 6V battery + stopcock	WRAS1603070	31/03/21			-
44000615	TEMPOMATIC 4 basin tap M1/2" 6V battery 15mm + stopcock	WRAS1603070	31/03/21			36
443406	TEMPOMATIC 4 wall mounted basin tap M1/2" 6V battery L125	WRAS1603071	31/03/21			36
443506	TEMPOMATIC 4 wall mounted basin tap M1/2" 6V battery L190	WRAS1603071	31/03/21			36
49000115	TEMPOMATIC MIX 4 basin M1/2" rec UK mains plug Ø15 stopcocks	WRAS1603070	31/03/21			37
490006	TEMPOMATIC MIX 4 basin mixer F3/8" 6V battery + stopcocks	WRAS1603070	31/03/21			-
49000615	TEMPOMATIC MIX 4 basin mix M1/2" 6V battery 15mm +stopcocks	WRAS1603070	31/03/21			36
709000	Recessed vandal proof ROUND shower head M1/2"	WRAS1403018	31/03/19			141
712000	TONIC JET vandal proof recessed shower head M1/2"	WRAS1403018	31/03/19			141
732115	PREMIX NANO thermostatic mixer 1/2" nickel body	WRAS1409058	30/09/19	TMVBC1430	14/08/19	90
732116	PREMIX NANO thermostatic mixer 1/2" chromed body	WRAS1409058	30/09/19	TMVBC1430	14/08/19	90
734100	TEMPOGENOU angled MM1/2" lever L350 ~7sec	WRAS1406034	30/06/19			46
735400	TEMPOGENOU inline MM1/2" lever L350 ~7sec	WRAS1406034	30/06/19			46
735447	TEMPOGENOU inline MM1/2", lever L350 ~7sec comp. fittings	WRAS1406034	30/06/19			-
H9600	SECURITHERM thermostatic sequential basin mixer H85 L120	WRAS1209110	30/09/17	TMVBC1002	Applied for	56
H9600610	SECURITHERM seq basin mixer H85 L120 lever L146 copper tails	WRAS1209110	30/09/17	TMVBC1002	Applied for	56
H9605	SECURITHERM therm sequential BIOCLIP basin mixer H85 L120mm	WRAS1209110	30/09/17	TMVBC1002	Applied for	56
H9605610	SECURITHERM seq BIOCLIP basin mix H85 L120 lever L146 copper	WRAS1209110	30/09/17	TMVBC1002	Applied for	56
H9611	SECURITHERM therm seq mixer st steel BIOCLIP spout	WRAS1302012	28/02/18	TMVBC1107	12/12/17	-
H9630	SECURITHERM therm seq shower mix bottom outlet, offset SP	WRAS1410025	31/10/19	TMVBC1363	08/05/19	-
H963015	SECURITHERM therm sequential shower mix offset SP, 15mm	WRAS1410025	31/10/19	TMVBC1363	08/05/19	104
H9632	SECURITHERM seq recessed waterproof shower kit 2/2 (+790BOX)	WRAS1512029	31/12/20	TMVBC1824	Applied for	107
H963615	SECURITHERM sequential shower panel copper inlets w. handset	Applied for		TMVBC1824	Applied for	124
H9637	Mineralsteel SECURITHERM seq shower panel top inlet soapdish	Applied for		TMVBC1824	Applied for	125
H9638	Mineralsteel SECURITHERM seq shower panel bck inlet soapdish	Applied for		TMVBC1824	Applied for	125
H963915	SECURITHERM sequential shower panel copper inlets Ø 15	Applied for		TMVBC1824	Applied for	124
H9640	SECURITHERM thermostatic seq shower top outlet offset SP	WRAS1410025	31/10/19	TMVBC1363	08/05/19	-
H964015	SECURITHERM thermostatic seq shower offset SP, 15mm	WRAS1410025	31/10/19	TMVBC1363	08/05/19	104
H9741TP	SECURITHERM therm Securitouch shower mixer inline, SP TMV3	WRAS1605050	31/05/21	TMVBC1777	14/12/21	110
H9752P	SECURITHERM therm Securitouch shower bath mixer, inline SP	WRAS1605041	31/05/21			110

WHAT IS THE NF MARK?

The NF Mark affixed on a product attests that the latter complies with the relevant standards and with complementary technical specifications requested by the market, where appropriate.

• SANITARY WATER CONTROLS

The characteristics are specified in the technical documents, prepared with the participation of the manufacturers, the distributors, the consumer associations, the laboratories and the public authorities, fixed by AFNOR Certification and monitored by the "Centre Scientifique et Technique du Bâtiment" (CSTB) (Scientific and Technical Building Centre). CSTB carries out tests on the products and the audits on the companies as part of this application.

WHAT DOES THE NF MARK ACCORD?

> Sanitary water controls

The NF Mark - SANITARY TAPWARE certifies the compliance of products with the certification reference system approved by AFNOR Certification. In particular, this guarantees:

> For thermostatic mixers

- quality of the surface covering;
- interchangeability of valves;
- tightness before and after endurance test;
- intercommunication between cold water and hot water;
- flow rates appropriate to the application;
- behaviour when adjusted;
- adjustment precision;
- adjustment sensitivity;
- mixed water temperature stability depending upon:
 - flow rate variation;
 - pressure variation;
 - hot water temperature variation;
- accuracy;
- safety: cold water shut-off and efficiency of the limit stop;
- mechanical performances;
- wear resistance for the control devices;
- acoustic performances.

> For mechanical mixers

- quality of the surface covering;
- interchangeability of mixer taps;
- tightness before and after endurance test;
- intercommunication between cold water and hot water;
- flow rates appropriate to the application;
- use comfort depending on the sensitivity, the precision and the temperature constancy;
- mechanical performances;
- wear resistance for the control devices;
- acoustic performances.

THE NF MARK IS TO BE FOUND ON WHAT PRODUCTS?

The NF Mark is affixed on the following products:

• SANITARY WATER CONTROLS

- single taps and mixer taps;
- mechanical mixer taps;
- thermostatic mixing valves;
- flow rate regulators;
- shower outlets for sanitary tapware;
- extractable handsprays for sink and washbasin mixer taps;
- shower hoses for sanitary tapware;
- waste fittings;
- automatic shut-off valves;
- stop valves mounted:
 - upstream from sanitary tapware;
 - on a WC flushing cistern;
 - to supply a washing machine;
- multiway selector;
- automatic diverter, Family H, type C;
- electronic opening and closing valve, and specifies the ratings for some of them.

ECAU/EChAU classification for mechanical mixers:

There are 4 basic characteristics and the letters **E A U** have the same meaning as for the other mixers (see table below). The letters **C** or **Ch** (comfort, water and energy savings) correspond to the specific parameters of the products (dimensions, effort to operate and water saving systems). The letter **C** refers to the domestic sector, whereas **Ch** refers to non-domestic (retirement homes, care homes, non-healthcare etc.).

Flow rate E	Q lpm measured at 3 bar	E00	4 lpm ≤ Q < 6 lpm
		E0	9 lpm ≤ Q < 12 lpm
		E1	12 lpm ≤ Q < 16 lpm
		E2	16 lpm ≤ Q < 20 lpm
		E3	20 lpm ≤ Q < 25.2 lpm
		E4	25.2 lpm ≤ Q
		The minimum rating for bath mixers is E3	
Comfort C or Ch	Type	C1	Dimensions, effort to operate
		C2	Water saving features
Sound level A	Lap dB (A)	A1	20 dB (A) < Lap ≤ 30 dB (A)
		A2	15dB (A) < Lap ≤ 20 dB (A)
		A3	Lap ≤ 15 dB (A)
Wear characteristics U	No. of cycles	U1	Movable obturation mechanism: 70,000 cycles Mobile nozzle: 80,000 cycles Bath-shower diverter: 30,000 cycles
		U2	Movable obturation mechanism: 122,500 cycles Mobile nozzle: 140,000 cycles Bath-shower diverter: 50,000 cycles
		U3	Movable obturation mechanism: 175,000 cycles Mobile nozzle: 200,000 cycles Bath-shower diverter: 80,000 cycles



WATER CONTROLS FOR THE MEDICAL SECTOR (FRENCH STANDARD NF 077)

There is now a specific document which defines the general and technical performance of water controls for the medical sector within the framework of the NF mark.

This document, effective from 01/12/2016, applies mainly to mechanical mixers, thermostatic mixers and electronic controls. Water controls in the medical sector can be differentiated from conventional products by the following criteria:

- To ensure accessibility, the whole control lever must be accessible during washing;
- For single hole mixers and taps, the hot and cold water supply must be via copper tails or flexible hoses suitable for the type of application (PEX, silicone);
- For wall-mounted mechanical shower mixers, the control lever must not be horizontal and/or perpendicular to the wall to avoid any risk of harm or injury;
- The mixer outlet may not be fitted with a flow rate regulator with a filter;
- Mixing chambers under pressure are not permitted up stream of the valve closing point;
- To check the effect of age on the water controls due to the disinfection protocols undertaken on the internal water system, the water controls are subject to preventative and curative chemical disinfection treatments;
- The spouts are longer and higher for basin and sink controls, to allow terminal filters to be fitted without impacting user comfort;
- The control levers are longer to improve grip and ergonomics.

The majority of DELABIE's range of hospital controls conform to these criteria and will be certified NF Medical during 2017.



ISO 9001
2008 certification:
by DEKRA.



CE certification
for electronic taps and valves:
directives 2014/30/UE
and 2014/35/UE



NF EN certification
French and European standards
NF EN 816
NF EN 817
NF EN 1111



ACS
"Attestation de Conformité Sanitaire."
All DELABIE products comply with the French CPDW directive and the 29 May 1997 decree modified by the Ministry of Health DGS/SD7A2002 number 571 of 25 November 2002.



Polish certification



HONG KONG certification



Australian and New Zealand certification



English certification



English certification



Belgian certification



Danish certification

REF.	DESCRIPTION	P.	REF.	DESCRIPTION	P.
0211030003	Replaced by 180330	-	183100	Surgical sink L2100 3 single Ø22 tapholes 304 st steel satin (ex-0711240009)	194
0513090000	Replaced by 180900	-	183200	Surgical sink L2100 3 twin Ø22 holes c-c 150 304 st st satin (ex-0711240010)	194
0710140000	Replaced by 180140	-	200000	Pre-mixer COMPACT MF1/2" for basin non return valves	-
0710150000	Replaced by 180150	-	20002	2 × BIOCLIP stainless steel spouts L129mm Ø28	47/61
0710200006	Replaced by 182060	-	20003	2 × BIOCLIP stainless steel spouts L77mm Ø28	47/61
0710200007	Replaced by 182070	-	20015	15 × BIOCLIP disposable spouts L125mm Ø22	47/61
0711130000	Replaced by 180130	-	20040.10P	10 × BIOFIL sterile spouts with integrated filter L138mm Ø22	27/82
0711170000	Replaced by 180170	-	20050A.10P	10 × BIOFIL sterile cartridge filter A, rain effect spray	28
0711210006	Replaced by 182160	-	20050P.10P	10 × BIOFIL sterile cartridge filter P, rain effect spray	28
0711220001	Replaced by 182000	-	20060.10P	10 × BIOFIL sterile shower head with integrated filter	29
0711220002	Replaced by 182020	-	20061.10P	10 × BIOFIL sterile threaded shower head with integrated filter	29
0711220009	Replaced by 182100	-	20164T1	Electronic mix 230V high swivel spout H165 L160, lever L100	44
0711220010	Replaced by 182200	-	20164T115	Electronic mixer 230V high swivel spout H165 L160, 15mm	44
0711230001	Replaced by 181000	-	20164T4	Elect mixer 230V high swivel spout H305 L250, lever L100	44
0711230002	Replaced by 181020	-	20164T415	Electronic mixer 230V high swivel spout H305 L250, 15mm	44
0711230009	Replaced by 181100	-	204001	Deck mounted fixed spout M1/2" L150 H170 Ø16 FS 3lpm	49
0711230010	Replaced by 181200	-	20464T1	Elect battery mix, high swivel spout H165 L160, lever L100	44
0711240001	Replaced by 183000	-	20464T115	Elect battery-op mixer high swivel spout H165 L160mm, 15mm	44
0711240002	Replaced by 183020	-	20464T4	Elect battery mix, high swivel spout H305 L250, lever L100	44
0711240009	Replaced by 183100	-	20464T415	Elect battery-op mixer high swivel spout H305 L250mm, 15mm	44
0711240010	Replaced by 183200	-	20801T2	Wall mtd elect tap with BIOCLIP disposable spout, panel fix	45
0810100000	Replaced by 180100	-	20804T2	Wall mtd elect tap with 2 BIOCLIP st steel spouts panel fix	45
0810110000	Replaced by 180110	-	20804T215	Wall mtd elect tap 2 BIOCLIP st steel spouts 15mm panel fix	45
0811080000	Replaced by 180800	-	20870T1	Elect mix H160 swivel spout + 2 BIOCLIP st steel spouts	45
098020	Inlet assembly kit, 15mm with NRV	-	20870T115	Elect mix H160 swivel spout + 2 BIOCLIP st steel spouts 15mm	45
098025	Discontinued	-	20870T3	Elect mix H300 with swivel spout + 2 BIOCLIP st steel spouts	45
098030	Discontinued	-	20870T315	Elect mix H300 swivel spout +2 BIOCLIP st steel spouts, 15mm	45
102400	Hinged stainless steel grid for ref 182400	198	20871T1	Elect mixer H160 w. swivel spout + BIOCLIP disposable spout	45
120270	TRAPEZ wall mtd basin no tap hole 304 stainless steel satin (ex-3411270015)	199	20871T3	Elect mixer H300 w. swivel spout + BIOCLIP disposable spout	45
120400	PMR XS wall mtd basin vert waste no tap hole 304 st st satin (ex-3411400015)	199	22.5P	5 × Scale proof aerator F22/100	220
121270	TRAPEZ wall mtd basin centre tap hole Ø35 304 st steel sat (ex-3411270008)	199	220000	*Deck mtd swiv spout L150 H140 Ø16 (while stock then 1306T1)	-
1306T1	Tubular swivel spout Ø22 H140 L150	49	2210	Mechanical sink mixer swivel spout H145 L220mm sculpt lever	80
1306T2	Tubular swivel spout Ø22 H260 L200	49	2210L	Mechanical sink mixer swivel spout H145 L220mm Hygiene lever	80
1306T3	Tubular swivel spout Ø22 H260 L300	49	2211	Mech sink mixer swivel spout/ret. spray H105mm, solid lever	84
1316	Swivel column with retractable spray, H200 L220mm	57/70	2211EP	EP sink mixer swivel spout/ret. spray H105mm, solid lever	70
132300	MINERALCAST wall mounted sink RHS Ø35 centre tap hole	206	2211L	Mech sink mixer swivel spout/ret spray H105mm Hygiene lever	84
132303	MINERALCAST wall mounted sink LHS Ø35 centre tap hole	206	2211LEP	EP sink mixer swivel spout/ret. spray H105mm, Hygiene lever	70
132306	MINERALCAST PMR wall mounted basin L.785 Ø35 centre hole	205	2220	Mechanical basin mixer H45mm with waste, sculptured lever	79
150022D	MINERALSTEEL wall mounted basin L570 1 place no tap hole	203	2220L	Mechanical basin mixer H45mm with waste, Hygiene lever	79
158100	Stop cock 1/2" with vacuum breaker + 1/4 turn ceramic head	165	2221	Mechanical basin mixer H45mm without waste, sculptured lever	79
1583	Reinforced washbasin flexible FF1/2" 1m	165	2221L	Mechanical basin mixer H45mm, no waste, Hygiene lever	79
15846	Trigger hand spray bed pan cleaner M1/2" inverted jet	164	2239	Mechanical shower mixer bottom outlet sculpt lever offset SP	137
1585	Wall hook for washbasin push-button operated hand spray	165	2239S	Mech shower mixer bottom outlet, sculpt lever, offset std	137
180100	ILHA free standing water fountain H915 304 st steel satin (ex-0810100000)	201	2252S	Wall mtd mech shower bath mixer sculpt lever, offset std	137
180110	ILHA JR free std water fountain H800 304 st steel satin (ex-0810110000)	201	232014	Wall mtd trough L655 304 polished satin stainless steel	198
180130	Hospital plaster sink wall mounted 304 stainless steel satin (ex-0711130000)	195	234004A	*Wall mtd sink L490 st steel (while stock then 182400)	-
180140	Floor standing combi basin sink 304 stainless steel satin (ex-0710140000)	196	234006A	*Wall mtd sink L455 st steel (while stock then 182400)	-
180150	Floor standing cleaners sink 304 stainless steel satin (ex-0710150000)	196	234015A	*Hinged grid for ref 234004A (while stock then 102400)	-
180170	Wall mounted cleaners sink 304 stainless steel satin (ex-0711170000)	197	234017A	*Hinged grid for ref 234006A (while stock then 102400)	-
180300	SXL hand wash free standing right hole Ø22 304 st steel sat (ex-3410300003)	200	24.5P	5 × Scale proof aerator M24/100	220
1801T2	Wall mounted base + 1 BIOCLIP disposable spout, panel fix	47	2420	*Mechanical basin mixer H.60 waste (while stk then 2620MINI)	-
1804T2	Wall mounted base + 2 BIOCLIP st. steel spouts, panel fix	47	2420L	*Mechanical basin mixer H.60 waste (while stk then 2620MINI)	-
180800	SD wall mounted water fountain 304 stainless steel satin (ex-0811080000)	201	2421	*Mechanical basin mixer H.60mm (while stock then 2621MINI)	-
180900	Recessed baby bath tub 304 st steel satin (ex-0513090000)	195	2421L	*Mechanical basin mixer H.60 (while stock then 2621MINI)	-
181000	Surgical scrub high upstand L700 1 post 304 st steel satin (ex-0711230001)	194	2439	Securitouch mech sh mixer btm outlet sculpt lever offset SP	136
181020	Surgical scrub low upstand L700 1 post 304 st steel satin (ex-0711230002)	194	2439EP	Securitouch EP shower mixer btm out, sculpt lever, offset SP	130
181100	Surgical sink L700 1 single Ø22 tap hole 304 st steel satin (ex-0711230009)	194	2439EPS	Securitouch EP shower mixer btm out sculpt lever, offset std	130
181200	Surgical sink L700 1 twin Ø22 hole c-c150 304 st steel satin (ex-0711230010)	194	2439S	Securitouch mech sh mixer btm outlet sculpt lever offset std	136
181310	SXS hand washbasin w/o tap 304 satin st steel	200	2443	Recessed mechanical shower mixer behind wall plate Ø116	140
181320	SXS hand washbasin w/o tap with upstand 304 satin st steel	200	2446	Wall mtd mechanical sink mixer swivel spout L200mm offset SP	86
182000	Surgical scrub high upstand L1400 2 posts 304 st steel satin (ex-0711220001)	194	2446EP	Wall mounted EP sink mixer swivel spout L200mm offset SP	71
182020	Surgical scrub low upstand L1400 2 posts 304 st steel satin (ex-0711220002)	194	2446EPS	Wall mounted EP sink mixer swivel spout L200 offset std	71
182060	XL P floor std disposal sink horiz inlet 304 st steel satin (ex-0710200006)	197	2446L	Wall mtd mech sink mixer swivel spt L200mm Hygiene lever SP	86
182070	XL P floor std disposal sink vert inlet 304 st steel satin (ex-0710200007)	197	2446LEP	Wall mtd EP mixer swivel spout L200 Hygiene lever offset SP	71
182100	Surgical sink L1400 2 single Ø22 tapholes 304 st steel satin (ex-0711220009)	194	2446LEPS	Wall mtd sink EP mixer swivel spout L200 lever offset std	71
182160	XL S wall mtd disposal sink horiz inlet 304 st steel satin (ex-0711210006)	197	2446LS	Wall mtd mech sink mixer swivel spout L200 lever offset std	86
182200	Surgical sink L1400 2 twin Ø22 holes c-c 150 304 st st satin (ex-0711220010)	194	2446S	Wall mtd mechanical sink mixer swivel spout L200 offset std	86
182310	SXS hand washbasin mechanical complete 304 satin st steel	200	25061T1	Basin mixer with swivel spout H200 L150mm, no waste	81
182320	SXS hand washbasin mechanical complete with upstand 304 satin st steel	200	2506T1	Basin mixer with swivel spout H200 L150mm, with waste	81
182400	Wall mtd sink with splashback 304 pol satin stainless steel	198	2506T2	Sink mixer with swivel spout H220 L200mm, no waste	81
183000	Surgical scrub high upstand L2100 3 posts 304 st steel satin (ex-0711240001)	194	2510	Mechanical sink mixer swivel spout H150 L230mm sculpt lever	80
183020	Surgical scrub low upstand L2100 3 posts 304 st steel satin (ex-0711240002)	194	2510L	Mechanical sink mixer swivel spout H150 L230mm Hygiene lever	80

References prefixed by * are available while stocks last. References are listed in ascending alphanumerical order.

REF.	DESCRIPTION	P.	REF.	DESCRIPTION	P.
2510T	Sink mixer with swivel spout H150 L230mm solid lever	80	2720T	Mechanical basin mixer H.85mm L.120mm + waste, solid lever	78
2511C	Replaced by NS262	-	2720TEP	EP basin mixer H.85mm L.120mm + waste, solid lever	68
2519	Wall mtd mech mixer swiv spout L200mm sculpt lever offset SP	86	2721L	Mechanical basin mixer H85mm L120mm, no waste, Hygiene lever	78
2519L	Wall mtd mech mixer swiv spout L200 Hygiene lever offset SP	86	2721LEP	EP basin mixer H85mm L120mm, no waste, Hygiene lever	68
2519LS	Wall mtd mech mixer swiv spout L200 Hygiene lever offset std	86	2721T	Mechanical basin mixer H85mm L120mm, no waste, solid lever	78
2519S	Wall mtd mech mixer swiv spt L200mm sculpt lever offset std	86	2721TEP	EP basin mixer H85mm L120mm, no waste, solid lever	68
2520	Mechanical basin mixer H.85mm L.135mm + waste, sculpt lever	79	2739	Securitouch mech. sh. mix, sculpt lever bottom outlet, SP	136
2520EP	EP basin mixer H.85mm L.135mm + waste, sculptured lever	69	2739EP	SECURITHERM EP shower mixer, sculptured lever, offset SP	130
2520L	Mechanical basin mixer H.85mm L.135mm + waste, Hygiene lever	79	2739EPHYG	Auto drain shower kit w. Securitouch mixer 2739EP, offset SP	131
2520LEP	EP basin mixer H.85mm L.135mm + waste, Hygiene lever	69	2739EPKIT	Shower kit with Securitouch mixer 2739EP, offset SP unions	131
2520T	Mechanical basin mixer H.85mm L.135mm + waste, solid lever	79	2739EPS	SECURITHERM EP shower mixer, sculptured lever, offset std	130
2520TEP	EP basin mixer H.85mm L.135mm + waste, solid lever	69	2739EPSHYG	Autodrain shower kit w. Securitouch mixer 2739EPS offset std	131
2521	Mechanical basin mixer H.85mm L.135mm no waste, sculpt lever	79	2739EPSKIT	Shower kit with Securitouch mixer 2739EPS, offset std unions	131
2521EP	EP basin mixer H.85mm L.135mm no waste, sculptured lever	69	2739HYG	Auto drain shower kit w. Securitouch mixer 2739, offset SP	138
2521L	Mechanical basin mixer H85mm L135mm, no waste, Hygiene lever	79	2739KIT	Shower kit with Securitouch mixer 2739, offset SP unions	138
2521LEP	EP basin mixer H85mm L135mm, no waste, Hygiene lever	69	2739S	Securitouch mech. sh. mix, sculpt lever bottom outlet, std	136
2521T	Mechanical basin mixer H85mm L135mm, no waste, solid lever	79	2739SHYG	Auto drain shower kit w. Securitouch mixer 2739S, offset std	138
2521TEP	EP basin mixer H85mm L135mm, no waste, solid lever	69	2739SKIT	Shower kit w. Securitouch mixer 2739S, offset std unions	138
2522	Mechanical basin mixer with swivel spout H95mm, sculpt lever	80	2739T	Securitouch mech. shower mix, solid lever, bottom outlet, SP	136
2522L	Mechanical basin mixer with swivel spout H95mm Hygiene lever	80	2739TEP	SECURITHERM EP shower mix, solid lever, bottom outlet, SP	130
2522T	Mechanical basin mixer with swivel spout H95mm, solid lever	80	2739TEPS	SECURITHERM EP shower mix, solid lever, bottom outlet, std	130
2538	Mechanical shower mixer top outlet sculptured lever offset SP	137	2739TS	Securitouch mech. shower mix, solid lever bottom outlet, std	136
2538S	Mechanical shower mixer top outlet sculpt lever, offset std	137	28.2P	2 × Scale proof aerator M28/100	220
2538T	*Mech shower mixer top, solid lever, SP (while stk then 2538)	-	2820L	BIOCLIP mechanical basin mixer H85mm + waste, Hygiene lever	78
2538TS	*Mech shower mix top solid lever std (while stk then 2538S)	-	2820LEP	BIOCLIP EP basin mixer H85mm + waste, Hygiene lever	68
2539	Mechanical shower mixer bottom outlet sculpt lever, offset SP	137	28201LEP	BIOCLIP EP basin mixer H85mm, long lever, no stopcocks	68
2539HYG	Auto drain shower kit with mechanical mixer 2539, offset SP	139	2820T	BIOCLIP mechanical basin mixer H85mm + waste, solid lever	78
2539KIT	Shower kit with mechanical mixer 2539, offset SP	139	28201T	BIOCLIP mechanical basin mixer H85 solid lever, no stopcocks	78
2539S	Mechanical shower mixer bottom outlet sculpt lever, offset std	137	2820TEP	BIOCLIP EP basin mixer H85mm + waste, solid lever	68
2539SHYG	Auto drain shower kit with mechanical mixer 2539, offset std	139	28201TEP	BIOCLIP EP basin mixer H85mm, solid lever, no stopcocks	68
2539SKIT	Shower kit with mechanical mixer 2539, offset std	139	2821L	BIOCLIP mechanical basin mix H85mm no waste, Hygiene lever	78
2539T	*Mech shower mixer btm, solid lever, SP (while stk then 2539)	-	28211L	BIOCLIP basin mixer H85mm no waste, Hygiene lever no stopcocks	78
2539TS	*Mech shower mix btm solid lever std (while stk then 2539S)	-	2821LEP	BIOCLIP EP basin mix H85mm no waste, Hygiene lever	68
2542	Mechanical shower mixer with remote control, sculpt lever	84	28211LEP	BIOCLIP EP basin mixer H85 no waste, Hygiene lever no stopcocks	68
2542EP	EP shower mixer with remote control, sculptured lever	70	2821T	BIOCLIP mechanical basin mixer H85mm no waste, solid lever	78
2543	Recessed waterproof shower mixer, kit 2/2 (+790BOX)	140	28211T	BIOCLIP mechanical basin mixer H85mm no waste, no stopcocks	78
2544	*Mech mixer +base, handset sculpt lever(while stk then 2599)	-	2821TEP	BIOCLIP EP basin mix H85mm no waste, solid lever	68
2564T1	Mechanical mixer high swivel spout H160 L160mm Hygiene lever	83	28211TEP	BIOCLIP EP basin mixer H85mm no waste, no stopcocks	68
2564T2	Mechanical mixer high swivel spout H160 L250mm Hygiene lever	83	2870T1	Mixer with BIOCLIP swivel spout H160 + 2 st steel spouts	82
2564T3	Mechanical mixer high swivel spout H300 L160mm Hygiene lever	83	2870T3	Mixer with BIOCLIP swivel spout H300 + 2 st steel spouts	82
2564T4	Mechanical mixer high swivel spout H300 L250mm Hygiene lever	83	2871T1	Mixer with BIOCLIP swivel spout H160 + 1 disposable spout	82
2565T1	Mechanical mixer high fixed spout H160 L160mm, Hygiene lever	83	2871T3	Mixer with BIOCLIP swivel spout H300 + 1 disposable spout	82
2565T1EP	EP mixer high fixed spout H160 L160 Hygiene lever	69	292015.2P	2 × Moulded wall plate Ø60x21x5 for tap M1/2"	165
2565T3	Mechanical mixer high fixed spout H300 L160mm, Hygiene lever	83	30040.10P	10 × BIOFIL spouts with integrated filter L.138mm Ø22	27/82
2565T3EP	EP mixer high fixed spout H300 L160mm Hygiene lever	69	30050A.10P	10 × BIOFIL non-sterile cartridge filter A rain effect spray	28
2565T4	*Mech mixer spout H300 L250mm (while stock then ref 2564T4)	-	30050P.10P	10 × BIOFIL non-sterile cartridge filter P rain effect spray	28
2565T4EP	*EP mixer spout H300 L250mm (while stock then ref 2565T3EP)	-	30051A.10P	10 × BIOFIL non-sterile cartridge filter A with laminar flow	28
2591	Bed pan cleaner stop cock + trigger hand spray with FS	162	30051P.10P	10 × BIOFIL non-sterile cartridge filter P with laminar flow	28
2592	Bed pan cleaner stop cock + inverted trigger hand spray	162	30060.10P	10 × BIOFIL shower head with integrated filter	29
2597	Mechanical mixer swivel spout H210 L190mm retractable spray	84	30061.10P	10 × BIOFIL threaded shower head with integrated filter	29
2599	Mixer + column retractable spray H200, sculptured lever	84	3410300003	Replaced by 180300	-
2599EP	EP mixer + column with retractable spray H.200, sculpt lever	70	3410300103	Replaced by 180300	-
260020	Recessed diverter valve	153	3411250015	Replaced by 120400	-
260021	Exposed diverter valve	153	3411250115	Replaced by 120400	-
2620	BIOSAFE mechanical basin mixer H95 with waste, solid lever	77	3411270008	Replaced by 121270	-
26206	BIOSAFE mech basin mixer H95 with waste, solid lever, copper	77	3411270015	Replaced by 120270	-
26206EP	BIOSAFE EP basin mixer H95mm with waste, solid lever, copper	67	3411310003	Replaced by 180310	-
26206MINI	BIOSAFE mech basin mixer H55 with waste, solid lever, copper	77	3411310103	Replaced by 180310	-
26206MINIEP	BIOSAFE EP basin mixer H55mm with waste, solid lever, copper	67	3411400015	Replaced by 120400	-
2620EP	BIOSAFE EP basin mixer H95 with waste, solid lever	67	3411400115	Replaced by 120400	-
2620MINI	BIOSAFE mechanical basin mixer H55mm with waste, solid lever	77	374001	Hyperco liquid soap dispenser 0.9L white ABS	94
2620MINIEP	BIOSAFE EP basin mixer H55mm with waste, solid lever	67	378015	BINOPTIC basin tap M3/8" mains 230/12V + trans	38
2621	BIOSAFE mechanical basin mixer H95 no waste, solid lever	77	37801515	BINOPTIC basin tap Ø15 for comp. fitting 230/12V + trans	38
26216	BIOSAFE mech basin mixer H95mm no waste, solid lever, copper	77	378MCH	BINOPTIC MIX basin mixer M3/8" mains 230/12V + trans	38
26216EP	BIOSAFE EP basin mixer H95mm no waste, solid lever, copper	67	378MCH15	BINOPTIC MIX basin mixer Ø15 for CF mains 230/12V + trans	38
26216MINI	BIOSAFE mech basin mixer H55mm no waste, solid lever, copper	77	378MCHLH	BINOPTIC MIX basin mix M3/8" mains 230/12V + trans	-
26216MINIEP	BIOSAFE EP basin mixer H55mm no waste, solid lever, copper	67	379D13	BINOPTIC c-wall 190 basin tap M3/8"spout L135 mains + trans	39
2621EP	BIOSAFE EP basin mixer H95 no waste, solid lever	67	379D1315	BINOPTIC c-w 190 basin tap Ø15 for CF spout L135 mains +trans	39
2621MINI	BIOSAFE mech basin mixer H55mm no waste, solid lever	77	379DER	BINOPTIC c-wall 190 basin tap M3/8"spout L205 mains + trans	39
2621MINIEP	BIOSAFE EP basin mixer H55mm no waste, solid lever	67	379DER15	BINOPTIC c-w 190 basin tap Ø15 for CF spout L205 mains +trans	39
2720L	Mechanical basin mixer H.85mm L.120mm + waste, Hygiene lever	78	379ECM	BINOPTIC MIX recessed/plate basin mix M3/8" mains + trans	39
2720LEP	EP basin mixer H.85mm L.120mm + waste, Hygiene lever	68	379ECML	BINOPTIC MIX rec basin mix M3/8" mains + trans, long lever	39

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REF.	DESCRIPTION	P.	REF.	DESCRIPTION	P.
379ENC	BINOPTIC rec basin tap M3/8" spout L200 mains + trans	39	478015	BINOPTIC basin tap M3/8" 6V battery	38
379ENC15	BINOPTIC rec basin tap Ø15 for CF spout L200 mains + trans	39	47801515	BINOPTIC basin tap Ø15 for compression fitting 6V battery	38
379MCH	BINOPTIC MIX c-wall 110 basin mix M3/8" mains 230/12V +trans	39	478MCH	BINOPTIC MIX basin mixer M3/8" 6V battery	38
379MCH15	BINOPTIC MIX c-wall 110 basin mix Ø15 for CF mains + trans	39	478MCH15	BINOPTIC MIX basin mixer Ø15 compression fittings 6V battery	38
379MCHL	BINOPTIC MIX c-wall 110 basin M3/8" mains +trans long lever	39	478MCHLH	BINOPTIC MIX basin mixer M3/8" 6V battery, LH	-
409100	MINERALCAST wall mtd basin L1000 2 places Ø35 right tap hole	206	479646	Replaced by 479648	-
409140	MINERALCAST wall mtd basin L1400 3 places Ø35 right tap hole	206	479647	Replaced by 479649	-
434000	HOSPITAL trigger hand spray for bed pans	164	479648	Solenoid valve 6V for TEMPOMATIC basins, urinals, showers	221
434065	HYGIÈNA trigger hand spray w. flow straightener for bed pans	164	479649	Solenoid valve 6V for TEMPOMATIC 3	221
434080	Flexible white PVC hose FF1/2" L0.80m	165	490000	TEMPOMATIC MIX 4, basin mix F3/8"rec mains supply +stopcocks	37
434125	Flexible white PVC hose FF1/2" L1.25m	165	49000015	TEMPOMATIC MIX 4 basin M1/2" rec mains supply Ø15 stopcocks	37
434182	Inverted trigger hand spray with push button for bed pans	164	490000LH	TEMPOMATIC MIX 4, basin mix F3/8"rec mains + stopcocks LH	-
440000	TEMPOMATIC 4, basin tap F3/8" rec mains 230/6V + stopcock	37	490001	TEMPOMATIC MIX 4, basin mix F3/8" mains plug + stopcocks	37
440001	TEMPOMATIC 4, basin tap F3/8" mains plug 230/6V + stopcock	37	49000115	TEMPOMATIC MIX 4 basin M1/2" rec UK mains plug Ø15 stopcocks	37
44000015	TEMPOMATIC 4 basin tap M1/2" rec mains supply Ø15 +stopcock	37	490006	TEMPOMATIC MIX 4 basin mixer F3/8" 6V battery + stopcocks	36
44000115	TEMPOMATIC 4 basin tap M1/2" rec UK mains plug Ø15 stopcock	37	49000615	TEMPOMATIC MIX 4 basin mix M1/2" 6V battery 15mm +stopcocks	36
440006	TEMPOMATIC 4 basin tap F3/8" int. 6V battery + stopcock	36	490006LH	TEMPOMATIC MIX 4 basin mixer F3/8" 6V battery +stopcocks LH	-
44000615	TEMPOMATIC 4 basin tap M1/2" 6V battery 15mm + stopcock	36	490100	TEMPOMATIC MIX 4, basin mixer F3/8" rec mains supply 230/6V	37
440100	TEMPOMATIC 4, basin tap F3/8" recessed mains supply 230/6V	37	490101	TEMPOMATIC MIX 4, basin mixer F3/8" mains plug 230/6V	37
440101	TEMPOMATIC 4, basin tap F3/8" mains supply plug 230/6V	37	490100LH	TEMPOMATIC MIX 4, basin mix F3/8"rec mains supply 230/6V LH	-
440106	TEMPOMATIC 4 basin tap F3/8" integrated 6V battery	37	490106	TEMPOMATIC MIX 4 basin mixer F3/8" with int 6V battery	-
441157	TEMPOMATIC cross wall 155 basin tap mains 230/12V spout L170	43	490106LH	TEMPOMATIC MIX 4 basin mixer F3/8" with int 6V battery + LH	-
44115715	TEMPOMATIC Ø15 for CF c-w 155 basin tap 230/12V spout L170	43	490220	Recessed mains supply for TEMPOMATIC 4 basin up to Feb 2016	-
441452	Discontinued	-	490230	European electrical plug for TEMPOMATIC 4 basin to Feb 2016	-
441452B	CW blue disc for multifunction unit c-wall control Ø26-54	-	490230EXT	Electrical extension for TEMPOMATIC 4 basin	221
441452CEB	4m cable for solenoid vlv 1/2" or 1" for multifunction unit	-	490230UK	Replaced by 490241UK	-
441452DET	Cross wall electronic control for multifunction unit	-	490240	Recessed mains supply for TEMPOMATIC 4 basin from Feb 2016	221
441452R	HW red disc for multifunction unit c-wall control Ø26-54	-	490241	European electrical plug for TEMPOMATIC 4 basin from Feb 2016	-
441453	TEMPOMATIC multifunction unit 8 way 230/12V	-	490241UK	British plug for mains supply for TEMPOMATIC 4 basin	221
441453DET	Recessed electronic control for multifunction unit	-	490440	Electronic unit for TEMPOMATIC 4 mains supply to Feb 2016	-
442006	TEMPOMATIC 3 basin tap F3/8" 6V integrated battery +stopcock	-	490446	Electronic control unit 6V battery operated for TEMPOMATIC 4	221
44200615	TEMPOMATIC 3 basin tap M1/2" 6V battery 15mm + stopcock	-	490450	Electronic unit for TEMPOMATIC 4 mains supply from Feb 2016	221
442106	TEMPOMATIC 3 basin tap F3/8" 6V integrated 6V battery	-	492006	TEMPOMATIC MIX 3 basin mix F3/8" int 6V battery + stopcocks	-
443006	TEMPOMATIC 3 wall mounted basin tap M1/2" 6V battery L190	-	49200615	TEMPOMATIC MIX 3 basin mix M1/2" 6V battery Ø15 +stopcocks	-
443016	TEMPOMATIC 3 basin tap M1/2" 6V for panels 1-4mm	-	492006LH	TEMPOMATIC MIX 3 basin mix F3/8" int 6V battery+stopcocks LH	-
443406	TEMPOMATIC 4 wall mounted basin tap M1/2" 6V battery L125	36	492106	TEMPOMATIC MIX 3 basin mixer F3/8" int 6V battery	-
443426	TEMPOMATIC 4 basin tap M1/2" 6V battery L125 panels 1-24mm	36	492106LH	TEMPOMATIC MIX 3 basin mixer F3/8" int 6V battery + LH lever	-
443506	TEMPOMATIC 4 wall mounted basin tap M1/2" 6V battery L190	36	492446	Electronic control unit 6V battery operated for TEMPOMATIC 3	221
443526	TEMPOMATIC 4 tap M1/2" 6V battery L190 for panels 1-24mm	36	492646	*Solenoid vlv for TEMPOMATIC 3 basin (while stk then 479647)	-
444000	TEMPOMATIC 2 basin tap M3/8" mains 230/12V + transformer	41	494000	TEMPOMATIC MIX 2 basin mix M3/8" mains 230/12V + transformer	41
44400015	TEMPOMATIC 2 basin tap Ø15 for CF mains 230/12V + transfo	41	49400015	TEMPOMATIC MIX 2 basin mix Ø15 for CF mains 230/12V + trans	41
444006	TEMPOMATIC 2 basin tap M3/8" 6V battery	40	494000LH	TEMPOMATIC MIX 2 basin mixer M3/8" 230/12V + LH lever	-
44400615	TEMPOMATIC 2 basin tap Ø15 compression fitting 6V battery	40	494006	TEMPOMATIC MIX 2 basin mixer M3/8" 6V battery	40
445000	*TEMPOMATIC basin tap mains +transfo (while stk then 444000)	-	49400615	TEMPOMATIC MIX 2 basin mixer Ø15 comp. fitt. 6V battery	40
44500015	*TEMPOMATIC tap Ø15 mains +transfo (while stk then 44400015)	-	494006LH	TEMPOMATIC MIX 2 basin mixer M3/8" 6V battery + LH lever	-
445006	*TEMPOMATIC tap M3/8" 6V battery (while stock then 444006)	-	495000	*TEMPOMATIC MIX M3/8" mains + transf (while stk then 494000)	-
44500615	*TEMPOMATIC basin tap Ø15 6V batt (while stk then 44400615)	-	49500015	*TEMPOMATIC MIX Ø15 mains +transf (while stk then 49400015)	-
445253	TEMPOMATIC PRO basin tap M3/8" 230/12V with swivel spout	42	495006	*TEMPOMATIC MIX basin M3/8" 6V batt (while stk then 494006)	-
44525315	TEMPOMATIC PRO basin tap Ø15 for CF 230/12V with swivel spout	42	49500615	*TEMPOMATIC MIX basin Ø15 6V batt (while stk then 49400615)	-
445257	TEMPOMATIC PRO basin tap M3/8" 6V batt. with swivel spout	42	495070	TEMPOMATIC detector with cable L0.7m	221
44525715	TEMPOMATIC PRO basin tap Ø15 for CF 6V batt. with swivel spout	42	495149	TEMPOMATIC detector with cable L1.50m	221
447500	TEMPOMATIC rec basin tap /st steel plate 230/12V spout L170	43	495253	TEMPOMATIC MIX PRO basin mix M3/8" 230/12V with swivel spout	42
450120D	MINERALSTEEL wall mounted basin L1200 2 places no tap hole	203	49525315	TEMPOMATIC MIX PRO basin mix Ø15 for CF 230/12V swivel spout	42
453140	MINERALCAST wall mtd basin L1400 3 places Ø35 centre hole	207	495257	TEMPOMATIC MIX PRO basin mix M3/8" 6V batt. with swivel spout	42
454001A	MINERALCAST mounting bracket H700	207	49525715	TEMPOMATIC MIX PRO basin mix Ø15 for CF 6V batt. swivel spout	42
454010	MINERALCAST mounting bracket H850	207	495444BC	Standard electronic control unit 230/12V with duty flush	221
454120	MINERALCAST wall mtd basin L1200 2 places no tap hole	207	495445BC	Multifunction elect control unit 230/12V for TEMPOMATIC	221
454122	MINERALCAST wall mtd basin L1200 2 places Ø35 centre hole	207	495446BC	Electronic control unit 6V battery operated for TEMPOMATIC	221
454180	MINERALCAST wall mtd basin L1800 3 places no tap hole	207	495499	TEMPOMATIC detector with cable L5m	221
454182	MINERALCAST wall mtd basin L1800 3 places Ø35 centre hole	207	495606	Solenoid vlv M3/8" 6V + filter for TEMPOMATIC, BINOPTIC basin	221
461034	Solenoid valve MM1" 12V for TEMPOMATIC WC 463326	221	495612	Solenoid valve M3/8" 12V with filter for TEMPOMATIC basin	221
461035	Solenoid valve MM1" 12V for TEMPOMATIC WC + urinal	221	495615	Solenoid valve M1/2" 6V +filter for TEMPOMATIC shower+urinal	221
463000	Electronic multi unit 230/12V for TEMPOMATIC WC + trans	221	495626	Solenoid vlv M1/2" 12V + filter for TEMPOMATIC basin/urinal	221
463030	TEMPOMATIC WC cross wall 30mm valve 1" mains 230/12V	185	495626CEB	Solenoid valve 1/2" + cable L.4m for multifunction unit	-
463030HK	TEMPOMATIC WC cross wall 30mm valve 1" mains 230/12V for HK	185	495646	Solenoid vlv M1/2" 6V with filter for TEMPOMATIC and BINOPTIC	221
463150	TEMPOMATIC WC cross wall 160mm valve 1" mains 230/12V	185	500920	ECONOMIX TMV's repair kit	223
463150HK	TEMPOMATIC WC cross wall 160mm valve 1" mains 230/12V for HK	185	510120	Clip-on sliding shower soap dish clear for bar Ø25&32	147
463200	TEMPOMATIC WC cross wall 225mm valve 1" mains 230/12V	185	510120N	Clip-on sliding shower soap dish white Nylon for bar Ø25&32	147
463200HK	TEMPOMATIC WC cross wall 225mm valve 1" mains 230/12V for HK	185	510580	Liquid soap dispenser 1L polished 304 stainless steel	94
463326	TEMPOMATIC WC recessed valve 1" st steel plate mains 230/12V	185	510581	Liquid soap dispenser 1L white epoxy (monobloc)	94
463399	Detector for TEMPOMATIC WC with 4m cable	221	510582	Liquid soap dispenser 1L 304 stainless steel satin finish	94
463SRH	Solenoid valve + stopcock F1" + vacuum breaker Ø32 for WC	-	510583	Liquid soap dispenser 0.5L polished 304 stainless steel	94

References prefixed by * are available while stocks last. References are listed in ascending alphanumerical order.

REF.	DESCRIPTION	P.	REF.	DESCRIPTION	P.
510584	Liquid soap dispenser 0.5L white epoxy (monobloc)	94	731004	PREMIX COMFORT 140 group thermostatic mixer M1 1/4" 140lpm	156
510586	Liquid soap dispenser 0.5L 304 stainless steel satin finish	94	731005	PREMIX COMFORT 190 group thermostatic mixer M1 1/2" 190lpm	156
510587	Electronic liquid soap dispenser	94	731052	PREMIX SECURITY 55 group thermostatic mixer M3/4" 55lpm	156
515	*Base with retracting spray head (while stocks last)	-	731053	PREMIX SECURITY 90 group thermostatic mixer M1" 90lpm	156
517000	Urinal siphon F1 1/4" with horizontal outlet Ø32 chr brass	91	731054	PREMIX SECURITY 140 group thermostatic mixer M1 1/4" 140lpm	156
5445T2S	Twin hole wall mtd sink mixer swivel underspout L200	87	731055	PREMIX SECURITY 190 group thermostatic mixer M1 1/2" 190lpm	156
5460N	Straight bar Ø32 +sliding block H1150 white Nylon	147	731200	PREMIX COMFORT T2 group thermostatic mixer M3/4" 55lpm	156
5460P2	Straight bar Ø32 +sliding block H1150 polished st steel	147	731300	PREMIX COMFORT T3 group thermostatic mixer M1" 90lpm	156
5460S	Straight bar Ø32 +sliding block H1150 st steel satin finish	147	731400	PREMIX COMFORT T4 group thermostatic mixer M1 1/4" 140lpm	156
546400	*TEMPOFIX 2 elect WC frame SS (while stk then 547000+546412)	-	731500	PREMIX COMFORT T5 group thermostatic mixer M1 1/2" 190lpm	156
546412	TEMPOFIX 3 frame elec WC SS plate kit 2/2 (+547000/547005)	173	732012	PREMIX NANO thermostatic mixer FM3/8" nickel body	90
547000	TEMPOFIX 3 frame elec WC 26-70mm wall Ø100 kit 1/2 (+546412)	173	732016	PREMIX NANO thermostatic mixer FM3/8" chromed body	90
547005	TEMPOFIX 3 frame elec WC 26-70mm Ø100 kit 1/2 (+546412)	173	732115	PREMIX NANO thermostatic mixer 1/2" nickel body	90
576211	*TEMPOFIX 2 WC frame 10-40mm Kit 1/2 (while stk then 578300)	-	732116	PREMIX NANO thermostatic mixer 1/2" chromed body	90
576212	*TEMPOFIX 2 WC frame 6L Kit 2/2 (while stock then 578212)	-	732216	PREMIX NANO thermostatic mixer 3/8" chromed body	90
576222	*TEMPOFIX 2 WC frame 3L/6L kit 2/2 (while stock then 578222)	-	732515	Connection kit PEX L300 for PREMIX NANO 732216	90
576227	*TEMPOFIX2 WC frm 3/6L 45-65mm Kit 1 (while stk then 578400)	-	733015	PREMIX COMPACT thermostatic mixer M1/2" rough cast body	90
576229	Replaced by 578300	-	733016	PREMIX COMPACT thermostatic mixer M1/2" chromed body	90
576230	Replaced by 578230	-	733020	PREMIX COMPACT thermostatic mixer M3/4" rough cast body	90
576900	PVC sleeve connector 100/90 for TEMPOFIX 2	-	733021	PREMIX COMPACT thermostatic mixer M3/4" polished chrome body	90
576910	PVC sleeve connector 100/110 for TEMPOFIX 2	-	734100	TEMPOGENOU angled MM1/2" lever L350 ~7sec	46
576MUR	*Wall reinforcements for TEMPOFIX frame system (while stock)	-	735400	TEMPOGENOU inline MM1/2" lever L350 ~7sec	46
577001	*TEMPOFIX 2 WC frame cistern 3L/6L Kit 1/2 (while stock)	-	735447	TEMPOGENOU inline MM1/2", lever L350 ~7sec comp. fittings	-
577002	*TEMPOFIX 2 WC frame cistern white Kit 2/2 (while stock)	-	73544715	TEMPOGENOU inline MM1/2", lever L350 ~7sec comp fit + olives	46
577012	*TEMPOFIX 2 WC frame cistern chromed Kit 2/2 (while stock)	-	736001	MONOFOOT floor mounted pedal operated valve MM1/2" stud nut	46
578100	ABS sleeve connector 100/100	176	736101	MONOFOOT floor mounted pedal operated vlv MM1/2" without nut	46
578212	TEMPOFIX 3 WC frame 6L single flush kit 2/2	174	736102	MONOFOOT wall mounted pedal operated vlv MM1/2" without nut	46
578222	TEMPOFIX 3 WC frame 3L/6L dual flush kit 2/2	174	739000	MIXFOOT floor mounted pedal operated mixer MM1/2" stud nut	46
578230	TEMPOFIX 3 WC frame 80-130mm dual flush kit 2/2	175	739100	MIXFOOT floor mounted pedal operated mixer MM1/2" w-out nut	46
578300	TEMPOFIX 3 WC frame 20-40 & 80-130mm Ø100 wall fix kit 1/2	174	739102	MIXFOOT wall mounted pedal operated mixer MM1/2" without nut	46
578305	TEMPOFIX 3 WC frame 20-40 & 80-130mm Ø100 free-stand kit 1/2	174	743305	TEMPOSTOP cross wall/lever basin/urinal cartridge ~7sec	222
578400	TEMPOFIX 3 WC frame 45-65mm Ø100 wall fix kit 1/2	175	743622	TEMPOFLUX 2 WC 3/4" rec flush vlv cartridge ~7sec time flow	223
578405	TEMPOFIX 3 WC frame 45-65mm Ø100 free-standing kit 1/2	175	743623	TEMPOFLUX 2 WC 3/4" cross wall flush vlv cartridge ~7sec time flow	223
578MUR	Wall reinforcements for TEMPOFIX 3 frame system	176	743677	TEMPOFLUX 2 WC 3/4" recessed/frame 45-65mm cartridge ~7sec	223
580000	Urinal waste Ø63 1 1/4" vand-resist st steel grid ctrl screw	91	743702	*PREMIX 3/4" thermostatic cartridge (while stock)	-
581000	On/Off washbasin waste 1 1/4" stainless steel valve	91	743732	Maintenance kit for PREMIX NANO	223
596000	Deluxe chrome plated blanking cap Ø45	91	748057	HOSPITAL time flow trigger hand spray with flow straightener	163
611	HYGIENA waste 1 1/4" concave grid, adaptable slotted lantern	91	748058	Time flow trigger hand spray with push button for bed pans	163
61101	Replaced by 611	-	748065	HYGIENA time flow trigger hand spray with FS for bed pans	163
620	Washbasin pop up waste 1 1/4" chrome plated brass	91	753005	Maintenance kit TEMPOSTOP basin/urinal ~7sec time flow	222
620003	Discontinued	-	753702	Discontinued	-
6712	Hypereco liquid soap dispenser elbow control 0.9L white ABS	94	753704	Discontinued	-
682001	Floor trap 100x100 hard floors adj H integrated outlet Ø40	155	753730	Maintenance kit for PREMIX COMFORT 3/4"	-
682001UK	Floor trap 100x100 hard floors adj H horiz elbow outlet Ø43	155	753731	Maintenance kit for PREMIX COMFORT 1"	-
683001	Floor trap 150x150 hard floors adj H integrated outlet Ø40	155	753732	Replaced by 753730 or 753731	-
683001UK	Floor trap 150x150 hard floors adj H horiz elbow outlet Ø43	155	753733	Maintenance kit for PREMIX COMPACT	-
683002	Floor trap st steel grid Ø114 vinyl floors integ. outlet Ø40	155	753735	Maintenance kit for PREMIX COMFORT 1 1/4" and 1 1/2"	-
683002UK	Floor trap st steel grid Ø114 vinyl floors elbow outlet Ø43	155	753736	Maintenance kit for MONOFOOT	222
684000	Floor trap with grid 140x140 - vertical outlet Ø40	155	753739	Maintenance kit for MIXFOOT	222
705000	Connection washer Ø32/55 with clamp for WC	188	753750	Maintenance kit for PREMIX SECURITY 3/4"	-
705028	Connection washer Ø28/55 with clamp for WC	188	753751	Maintenance kit for PREMIX SECURITY 1"	-
709000	Recessed vandal proof ROUND shower head M1/2"	141	753752	Replaced by 753750 or 753751	-
710500	Wall mounted soap dish Bayblend® chrome plated matt	147	753755	Maintenance kit for PREMIX SECURITY 1 1/4" and 1 1/2"	-
710501	Wall mounted soap dish Bayblend® chrome plated bright	147	762150	TEMPOFLUX 2 WC cross wall 145 flush valve M3/4" Ø25 ~7sec	187
712000	TONIC JET vandal proof recessed shower head M1/2"	141	762571	TEMPOFLUX 2 WC rec vlv M3/4" for frame ~7sec single flush	-
712000GR	TONIC JET vandal proof recessed shower head with grid M1/2"	141	762572	TEMPOFLUX 2 WC rec vlv M3/4" for frame ~7sec dual flush	-
729008	Soap dispenser straight spout 1L bottle, chromed brass	95	762901	TEMPOFLUX 2 WC rec vlv M3/4" with box ~7sec single flush	187
729012	Soap dispenser curved spout 1L bottle, chromed brass	95	762902	TEMPOFLUX 2 WC rec valve M3/4" with box ~7sec dual flush	187
729108	Soap dispenser straight spout, tube L1200, chromed brass	95	769400	Recessed/cross wall PVC elbow flush tube Ø32	188
729112	Soap dispenser curved spout, tube L1200, chromed brass	95	790152	Aluminium extension for shower panel	154
729150	Wall mounted soap dispenser cross wall 180, chromed	95	790153	St steel telescopic extension for shower panel 350-550x250	154
729302	Maintenance kit for soap dispenser type 729150/729012	222	790BOX	Recessed waterproof box for shower mixer - Kit 1/2	107
729303	Cartridge for soap dispenser type 729150/729200	222	792220	Replaced by H9632	-
729308	Cartridge for soap dispenser type 729008	222	792320	SECURITHERM therm alu panel top inlets ~30sec handset + fixed	122
729312	Cartridge for soap dispenser type 729012	222	792324	SECURITHERM therm SS panel top inlets ~30sec handset + fixed	123
729508	Soap dispenser straight spout 0.5L bottle, chromed brass	95	792330	SECURITHERM therm alu panel rear inlet ~30sec handset + fixed	122
729512	Soap dispenser curved spout 0.5L bottle, chromed brass	95	792334	SECURITHERM therm SS panel rear inlet ~30sec handset + fixed	123
730802.2P	2 x Angled isolating ball valve for PREMIX 3/4"	-	792344	SECURITHERM st steel therm sh panel top inlets + handspray	123
730803.2P	2 x Angled isolating ball valve for PREMIX 1"	-	792354	SECURITHERM st steel therm sh panel back inlets + handspray	123
730804.2P	2 x Angled isolating ball valves for PREMIX 1 1/4"	-	792380	SECURITHERM therm alu sh panel hidden inlets handset + fix	122
731002	PREMIX COMFORT 55 group thermostatic mixer M3/4" 55lpm	156	792390	SECURITHERM therm alu sh panel top inlets handset + fix	122
731003	PREMIX COMFORT 90 group thermostatic mixer M1" 90lpm	156	79239015	SECURITHERM alu shower panel top inlets Ø15 handset + fix	122

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REF.	DESCRIPTION	P.
792400	SECURITHERM therm alum shower panel 6V battery-op top inlets	-
79240015	SECURITHERM therm alu sh panel 6V battery-op top inlets Ø15	118
792403	SECURITHERM st steel therm sh panel 6V battery-op top inlets	119
792404	SECURITHERM SS therm sh panel 6V batt-op top inlets soapdish	-
79240415	SECURITHERM SS therm sh panel 6V batt-op top inlets Ø15 soap	119
792406	SECURITHERM Mineralsteel therm panel 6V batt top inlet soap	119
792410	SECURITHERM therm alum shower panel 6V batt-op back inlets	-
792410UK	SECURITHERM therm alu shower panel UK 6V batt-op back inlets	118
792413	SECURITHERM st steel therm sh panel 6V batt-op back inlet	119
792414	SECURITHERM SS therm sh panel 6V batt-op back inlets + soap	119
792416	SECURITHERM Mineralsteel therm panel 6V back inlets +soap	119
792504	SECURITHERM st st therm shower panel 230/6V top inlet +soap	119
792514	SECURITHERM SS therm shower panel 230/6V back inlets + soap	119
800	*Single jet shower kit with wall support (while stocks last)	-
801	Single jet shower kit with bar Ø18	145
802	*5 jet shower kit bar Ø25 (while stock then ref 806/803)	-
803	3 jet shower kit with bar Ø25	144
806	Single jet shower kit with bar Ø25	144
807792	Removable push-fit rapid STOP connector FM1/2" for sh panel	154
809.50P	50 × Disposable shower set	145
810	Single jet shower head M1/2" chrome Ø60	148
811	Single jet shower head M1/2" chrome Ø70, scale resistant	148
811610.2P	2 × Copper tails M10 × 1 L365mm	93
811611.2P	2 × Copper tails M11 × 1 L365mm	93
811612.2P	2 × Copper tails M10 × 1 L385mm	-
813	3 jet shower head M1/2" chrome Ø95, scale resistant	148
814	*5 jet shower head M1/2" Ø119 (while stock then ref 813/815)	-
815	Single jet shower head M1/2" Ø119, scale resistant	148
816	Twin jet shower head M1/2" with inverter, scale resistant	148
820	Chrome rail Ø18 with soap dish 570mm centres	146
820022	Push-fit connector F22/100 for BIOFIL cartridge A	28
820023	Push-fit union M1/2" for BIOFIL cartridge A and shower head	28/29
820024	Push-fit connector M24/100 for BIOFIL cartridge A	28
820025	Push-fit connector M24/125 for BIOFIL cartridge A	28
820122	Push-fit connector F22/100 for BIOFIL cartridge P	28
820124	Push-fit connector M24/100 for BIOFIL cartridge P	28
821	Chrome rail Ø25 with soap dish up to 670mm centres	146
826315	Back-nut F1/2" 4mm thick with 3 screws and washer	48
828	Shower head retaining collar Ø25	149
830T1	Black polyamide flexible shower hose L1.5m	151
831T1	*Metal shower hose single interlock L1.5m (while stock)	-
832T1	Reinforced metal flexible shower hose double interlock L1.5m	150
833T1	*Metal shower hose for hand set (while stock then ref 832T1)	-
834T1	Metalloplastic BIOCOLOR PVC smooth flexible hose L1.5 m	150
834T2	Metalloplastic BIOCOLOR PVC smooth flexible hose L2.00 m	150
834T3	Metalloplastic BIOCOLOR PVC smooth flexible hose L0.85 m	150
834T4	Metalloplastic BIOCOLOR PVC smooth flexible hose L1.2 m	150
835T1	Black nylon flexible for sink hand spray L1.5m	151
836T1	Reinforced PVC SILVER flexible shower hose L1.5m	150
836T3	Reinforced PVC SILVER flexible shower hose L0.85m	150
840	Adjustable shower head support chrome plated brass	149
841315	Chromed backplate elbow MF1/2"with stud nut Ø14	93/153
844	Handspray cradle with supply FM1/2	149
845	Adjustable shower head holder chrome	149
845527.2P	2 × Fastfix Connector for walls for pipes Ø15 M3/4"	93
846815.2P	*2× C-wall inline union 76 MF1/2" L115 +plate Ø50(while stk)	-
847327.2P	2 × Cross wall inline STOP/PURGE unions M1/2" M3/4"	92
855027.2P	2 × Cross wall offset STOP/PURGE unions M1/2" M3/4"	92
855027KIT	*Decontamination kit for STOP/PURGE unions (while stock)	-
856027.2P	2 × S union M1/2" M3/4" with cover plate, offset 12mm	92
857027.2P	2 × S union M1/2" M3/4" with cover plate, offset 21mm	-
865127.2P	2 × Pillar unions M1/2" M3/4", without nut H64	153
868121	Wall mounted elbow outlet MM1/2" H33 for shower	153
870027.2P	2 × Deluxe pillar unions M1/2" M3/4", H70 Ø14	153
880	Auto-draining device for shower mixers	152
9102	Wall mounted safety eye wash with bowl	214
9108	Horizontal safety wall mounted shower	213
9120C	Safety wall mounted single eye wash spray	215
9121	Dual safety wall mounted eye wash spray	215
9140C	Safety deck mounted single eye wash spray	215
9141	Dual safety deck mounted eye wash spray	215
91AA75	Safety aerator covers for eye wash	216

REF.	DESCRIPTION	P.
9201	Safety free standing eye wash with bowl	214
9203	Safety free standing eye wash and shower combination	212
921022.2P	2 × Star shaped flow straightener F22/100	97
921022.50P	50 × Star shaped flow straightener F22/100	97
921024.2P	2 × Star shaped flow straightener M24/100	97
921024.50P	50 × Star shaped flow straightener M24/100	97
922022.2P	2 × Eco flow straightener adjustable flow rate F22/100	49/97
922024.2P	2 × Eco flow straightener adjustable flow rate M24/100	49/97
9225	Safety shower head	216
923022	BIOSAFE outlet with collar F22×100, 5L	49/97
923024	BIOSAFE outlet with collar M24×100, 5L	49/97
924022	BIOSAFE outlet with collar F22×100, 9L	49/97
924024	BIOSAFE outlet with collar M24×100, 9L	49/97
941120	Wall mounted fixed L-shaped spout M1/2" L120 - H60 adj FS	48
941202	*Wall mtd fixed L-spout M1/2" L200 FS H58 (while stock)	-
941922	Wall mtd L-shaped spout for panels 1-10mm M1/2" L120 H60 FS	48
942040	Spout for cross wall 30mm M1/2" L75 flow straightener	48
942200	Spout for cross wall 230mm M1/2" L75 flow straightener	48
943200100M	Tubular swivel spout Ø22, H.105 L.200mm nut 3/4" (for 2519)	220
943200110	Tubular swivel under spout Ø22 L300mm, nut 3/4" and brass FS	-
943300110	Tubular swivel under spout Ø22 H.80 L.300mm, nut 3/4"	220
947085	Wall mtd fixed spout M1/2" L70 H16 Ø32 FS + wall plate Ø60	48
947120	Wall mounted fixed spout M1/2" L.110 H16 Ø32 adjustable FS	48
947135	Wall mtd fixed spout M1/2" L120 H16 Ø32 adj FS + plate Ø60	48
947151	Fixed spout for walls 165mm M1/2" L120 Ø32 adjustable FS	48
947170	Wall mounted fixed spout M1/2" L160 H16 Ø32 adjustable FS	48
947185	Wall mtd fixed spout M1/2" L170 H16 Ø32 adj FS + plate Ø60	-
963150125F	Tubular spout Ø22, H.125 L.150mm nut 3/4"	220
963150923F	Tube swivel spout Ø22 BIOSAFE open flow outlet H125 L150mm	220
963200145F	Tubular swivel overspout Ø22, H.145 L.200mm nut 3/4"	220
963200245F	Tube swivel overspout Ø22, H.245 L.200mm nut 3/4"	220
963200923F	Tube swivel spout Ø22 BIOSAFE open flow outlet H145 L200mm	220
963300145F	Tubular swivel overspout Ø22 H.145 L.300mm, nut 3/4"	220
963300245F	Tubular swivel overspout Ø22, H.245 L.300mm, nut 3/4"	220
963300923F	Tubular swivel spout Ø22 BIOSAFE open flow outlet H245 L300	220
967152	Swivel swan neck spout M1/2" L150 H120 adj flow straightener	49
967202	Swivel swan neck spout M1/2" L200 H200 adj flow straightener	49
969024.2P	2 × Spout reducer M1/2", M24/100	-
981142	Fixed cast spout M1/2" L140 H120 adj flow straightener	49
983615	ECONOMIX 15/3 thermostatic mixing valve	157
983622	ECONOMIX 22/3 thermostatic mixing valve	157
990123	2 × Lithium batteries 3V type 123A for elect unit 495446BC	221
990223	Lithium battery 6V type 223 for units 479446, 490446, 492446	221
993615	ECONOMIX 15/3 Combi thermostatic mixing	157
993622	ECONOMIX 22/3 Combi thermostatic mixing	157
999049	4 × Vandal proof screws TORX M5×25 + pegs	223
A22D75	Safety aerator F22/100 for drench hose	216
A22LY75	Safety aerator F22/100 for eye wash	216
BA9915	2 × 15mm Combi angled inlet assembly	223
BA9922	2 × 22mm Combi angled inlet assembly	223
C151AH75	2 × Connectors with non-return valve FM3/8"	153
C282025	2.5mm Allen key to adjust flow rate on Eco flow straightener	49/97
C291AH75	2 × Connectors with non-return valves FM1/2"	153
CEL378150V	Detector + L1.50m cable for BINOPTIC, TEMPOMATIC 2	221
CEL378499V	Detector + L5m cable for BINOPTIC, TEMPOMATIC 2	221
CEL378V	Detector + L0.70m cable for BINOPTIC, TEMPOMATIC 2	221
CF	Vandal proof adjustable nozzle M24×1.25 limited to 10 lpm	141
D273015	Deck mounted tap MM1/2"	87
D275058	Bed pan push button operated hand spray with stopcock	162
D275065	Bed pan trigger hand spray with flow straightener, stopcock	162
D276020	Wall mounted tap for washing machines M1/2", M3/4"	87
FLEXPEX1	Replaced by FLEXPEX2	-
FLEXPEX2	2 × PEX Flexible connector M10×1 F3/8" L420mm	93
FLEXPEX3	2 × PEX flexible connector M10×1 F3/8" L525mm	93
FLEXPEX4	2 × PEX flexible connector M10×1 F3/8" L660mm	93
FLEXPEX5	2 × PEX flexible connector M11×1 F3/8" L370mm	93
FLEXPEX6	2 × PEX flexibles, rotating L.467mm	93
H9600	SECURITHERM thermostatic sequential basin mixer H85 L120	56
H96001	SECURITHERM sequential basin mixer H85 L120, no stopcocks	56
H960015	SECURITHERM sequential basin mixer H85 L120, lever L146 15mm	56
H960015L	SECURITHERM sequential basin mixer H85 L120, lever L100 15mm	56
H9600610	SECURITHERM seq basin mixer H85 L120 lever L146 copper tails	56

References prefixed by * are available while stocks last. References are listed in ascending alphanumerical order.

REF.	DESCRIPTION	P.	REF.	DESCRIPTION	P.
H9600610L	SECURITHERM seq basin mixer H85 L120 lever L100 copper tails	56	H9739S	SECURITHERM thermostatic shower mixer, offset std	112
H9605	SECURITHERM therm sequential BIOCLIP basin mixer H85 L120mm	56	H9739SHYG	Auto-drain shower kit with therm mixer H9739S, offset std	113
H96051	SECURITHERM seq BIOCLIP basin mixer H85 L120 no stopcock	56	H9739SKIT	Shower kit with thermostatic mixer H9739S, offset std	113
H960515	SECURITHERM seq BIOCLIP basin mixer H.85 L.120 L.146, 15mm	56	H9741HYG	AD shower kit with Securitouch therm mixer H9741, offset SP	111
H960515L	SECURITHERM seq BIOCLIP basin mixer H.85 L.120 L.100, 15mm	56	H9741KIT	Shower kit with Securitouch therm mixer H9741, offset SP	111
H9605610	SECURITHERM seq BIOCLIP basin mix H85 L120 lever L146 copper	56	H9741SHYG	AD shower kit with Securitouch therm mixer H9741S offset std	111
H9605610L	SECURITHERM seq BIOCLIP basin mix H85 L120 lever L100 copper	56	H9741SKIT	Shower kit with Securitouch therm mixer H9741S, offset std	111
H9610	SECURITHERM therm seq mixer disp BIOCLIP spout offset SP	59	H9741	SECURITHERM thermostatic Securitouch shower mixer, offset SP	110
H9610S	SECURITHERM therm seq mixer disp BIOCLIP spout offset std	59	H9741S	SECURITHERM thermostatic Securitouch shower mixer offset std	110
H9611P	SECURITHERM therm seq mixer st steel BIOCLIP spout inline SP	59	H9741TP	SECURITHERM therm Securitouch shower mixer inline, SP TMV3	110
H9612	SECURITHERM therm sink mixer swvl spt/ret spray, short lever	57	H9752P	SECURITHERM therm Securitouch shower bath mixer, inline SP	110
H9613	SECURITHERM therm sink mixer +column with retracting handset	57	H9752S	SECURITHERM therm Securitouch shower bath mixer, offset std	110
H9614P	SECURITHERM seq mixer st st BIOCLIP spout c-c 200 inline SP	59	H9769	SECURITHERM thermostatic BIOSAFE shower mixer, offset SP	108
H9615	SECURITHERM therm seq mixer st steel BIOCLIP spout w columns	59	H9769HYG	AD shower kit with Securitouch therm mixer H9769, offset SP	109
H9630	SECURITHERM therm seq shower mix bottom outlet, offset SP	104	H9769KIT	Shower kit with Securitouch therm mixer H9769, offset SP	109
H9630S	SECURITHERM therm seq shower mix btm outlet, offset std	104	H9769S	SECURITHERM thermostatic BIOSAFE shower mixer, offset std	108
H963015	SECURITHERM therm sequential shower mix offset SP, 15mm	104	H9769SHYG	AD shower kit with Securitouch therm mixer H9769S offset std	109
H9630HYG	Auto-drain shower kit with therm seq mixer H9630, offset SP	105	H9769SKIT	Shower kit with Securitouch therm mixer H9769S, offset std	109
H9630KIT	Shower kit with therm sequential mixer H9630, offset SP	105	N009AG75	Ceramic cartridge Ø40 with base plate and flow rate limiter	222
H9630SHYG	Auto-drain shower kit with therm seq mixer H9630S offset std	105	N109AG75	Ceramic cartridge Ø40 with base plate, no flow rate limiter	222
H9630SKIT	Shower kit with therm sequential mixer H9630S, offset std	105	N148AA75	Ceramic cartridge Ø40 no base, no flow rate limiter	222
H9632	SECURITHERM seq recessed waterproof shower kit 2/2 (+790BOX)	107	N201AG75	Ceramic cartridge Ø40 no base flow limiter for elec. models	222
H9636	SECURITHERM sequential shower panel flexi inlets w. handset	124	N248AA75	Ceramic cartridge Ø40 no base with flow rate limiter	222
H963615	SECURITHERM sequential shower panel copper inlets w. handset	124	N252	Ceramic pressure balancing EP cartridge Ø40 with base plate	222
H9637	Mineralsteel SECURITHERM seq shower panel top inlet soapdish	125	N262	Ceramic cartridge Ø35 with EP Pressure Balancing	222
H9638	Mineralsteel SECURITHERM seq shower panel bck inlet soapdish	125	N324AG75	*Ceramic cartridge Ø35mm (while stocks last)	-
H9639	SECURITHERM sequential shower panel flexible inlets	124	N421AJ75	Thermostatic cartridge 1/2" NF	-
H963915	SECURITHERM sequential shower panel copper inlets Ø15	124	N434AH75	Cartridge Ø35 without base plate for 3020, 2303 & 2312 range	-
H9640	SECURITHERM thermostatic seq shower top outlet offset SP	104	N96	SECURITHERM thermostatic cartridge for basin/snk H9610/ 14P/11	222
H9640S	SECURITHERM thermostatic seq shower top outlet offset std	104	N9630	SECURITHERM thermostatic cartridge for showers H9630/40	222
H964015	SECURITHERM thermostatic seq shower offset SP, 15mm	104	N96L	SECURITHERM thermostatic cartridge for basin/snk H9600/05	222
H9641	SECURITHERM thermostatic sequential exposed shower kit	106	N9719	Thermostatic cartridge for SECURITHERM sink H9718 & H9719	222
H964115	SECURITHERM thermostatic sequential exposed shower kit, 15mm	106	N9726	Thermostatic cartridge for SECURITHERM basin H9726	222
H9642	SECURITHERM remote thermostatic sink mixer, Hygiene lever	57	N9752	Discontinued	-
H9716	SECURITHERM therm sink mixer with swivel spout H230 L190	60	N97L	Thermostatic cartridge for SECURITHERM shower H9739/S	222
H9718	SECURITHERM wall mtd therm sink mix BIOCLIP disp, spout SP	61	N97LR	Thermostatic cartridge for SECURITHERM shower H9741/H52	222
H9718S	SECURITHERM wall mtd therm sink mix BIOCLIP disp, spout std	61	NS262	Ceramic cartridge Ø35 with base plate	222
H9719P	SECURITHERM wall mtd therm mix st st BIOCLIP spout inline SP	61	P120AA75	Guided washer head Ø22.5 + cover (5800 range)	222
H9726	SECURITHERM thermostatic basin mixer swivel spout H210 L150mm	60	P272AA85	Valve head 1/4 right turn Cold Water + lever	-
H9739	SECURITHERM thermostatic shower mixer, offset SP	112	P418AJ75	*Ceramic head 1/2" 1/2 turn (while stocks last)	-
H9739HYG	Auto-drain shower kit with therm mixer H9739, offset SP	113	P482AJ75	Ceramic head 1/2" 1/4 right turn	223
H9739KIT	Shower kit with thermostatic mixer H9739, offset SP	113	P9775	SECURITHERM ceramic head 1/2" 1/4 turn	222

References prefixed by * are available while stocks last. References are listed in ascending alphanumerical order.

The general terms and conditions are valid for all customers.

ORDERS AND QUOTATIONS:

These will be processed in order of receipt. All orders sent imply acceptance of our general terms and conditions of sale and customers waive any claims that may arise from clauses in their own documentation which may differ.

The customer agrees to these terms from the moment that we receive their order, which cannot be cancelled. Orders are accepted without obligation to deliver the order in full in one delivery.

Our commercial representatives are not authorised to agree additional terms verbally, or to provide verbal guarantees beyond those provided in the written contract. In the event of default or delayed payment, the Company will be entitled to suspend deliveries or cancel existing orders without any claim for damages from the customer. In the event of a change in circumstances of the buyer, we reserve the right to cancel existing orders or to demand payment guarantees.

Our quotes do not amount to specifications; specifiers and professional installers are solely responsible for the choice of products according to their intended use, current regulations and recommended guidelines.

PRICE:

Deliveries are invoiced according to the conditions in place at the date of despatch. Prices are given without guarantee and they may be changed without notice subject to fluctuations in costs, VAT or other taxes, according to the prevailing economic conditions.

Price increases will be announced one month prior to their application, and they apply to quotes and orders in hand.

PAYMENTS:

Terms of payments are confirmed when an account is opened, and are dependent on the terms of our credit insurance, and according to each country. We do not give discount for early payment.

In accordance with Article L441-6 of the Commercial Code, any delay in payment will give rise to the following from the first day of delay, regardless of their status with the supplier:

- An interest rate for delayed payment will be applied, equal to the European Central Bank refinancing rate plus 10% (French Law of Modernization of the Economy - LME - No. 2008-776 of 4th August 2008);
- A one-off payment of 40 Euros will apply to cover expenses (European Directive 2011/7 of 16th February 2011, Law 2012-387 of 22nd March 2012, and Decree 2012-1115 of 2nd October, 2012);
- When the recovery costs exceed the amount of the one-off payment, additional compensation will apply where justified.

In the case of late payment, a one-off payment may be required, replacing existing conditions. We will not accept any set off, only our assets have a legal value.

DELIVERY TIMES:

Despatch dates are indicative only and we shall not be liable for any delay or failure in carrying out our obligations where the delay or failure to deliver is caused by risks of manufacturing or where the cause is beyond our control. Delivery delay will not give rise to compensation payment or goods rejection.

SHIPPING:

Orders are sent to our distributors. We do not deliver to site. The buyer assumes responsibility for carriage and packing costs unless otherwise stated in the Incoterms on the invoice accompanying the goods. The goods are always forwarded at the buyer's own risk, whatever the method of transport, even if the carriage is free and special conditions have been granted. The carrier is solely responsible for their delivery, and customers are required to examine the goods, and, in case of goods being damaged, or lost in transit, notify the carrier in writing within 48 hours. A copy of this letter must be addressed to us.

CLAIMS:

No claim will be allowed where the delay in reporting exceeds 8 days following receipt of the goods. The whole of the delivery cannot be rejected because of partial damages and shortages.

PROPERTY IN GOODS:

Notwithstanding any agreed terms of sale, the goods shall remain the property of the seller until payment is made in full. The failure to meet a payment deadline may result in the reclamation of these goods. The buyer assumes the risks of loss or damage, regardless of the means of delivery, as described in 'DELIVERY TIMES' and 'SHIPPING' above, as well as liability for the damage they might cause.

WARRANTY AND RESPONSIBILITY:

Our products are warrantied against any manufacturing defect for a period of 10 years, including electronic controls, excluding other electrical accessories (e.g. hand dryers, etc.) which have a 3-year warranty from the invoice date. This does not apply to products with an expiry date. This warranty is limited to replacement or repair of defective components as determined by our workshops in France but excludes the cost for spoilage, handling and carriage or compensation whatever it is. We are not responsible for handling charges and the cost of returning products to our workshops.

Disasters or major water damage as a result of manufacturing defects are covered by our product and/or public liability insurance.

Our warranty and responsibility does not include the following:

- installation that does not comply with the technical specification or current recommended guidelines;
- worn parts;
- non-compliance with installation, user and maintenance guides;
- other factors independent of our products' quality, for example: detergents or abrasive cleaning products, the action of hard water, foreign bodies (e.g. gravel, sand, iron filings, scale, etc.), chemical and electrolytic phenomenon;
- lack of supervision, poor storage or poor maintenance;
- product modifications or actions by the customer, or a third party, without our authorisation using non-DELABIE components and/or consumable items.
- products past their expiry date.

The water-tightness of connections, joints and the product housing is the responsibility of the professional responsible for installation, and must be guaranteed by them. Warranty excludes joints, valves, washers and rubber seals. However they would be supplied if the warranty application requires them. Any finishes other than chrome or nickel are also excluded from the warranty. In the event that the product has been discontinued or manufacturing methods have changed and replacements are not available, similar alternative products will be offered. Replacement under warranty will not extend the duration of the original warranty.

Legal warranty of latent defects applies in any event.

SPARE PARTS:

Spare parts and mechanisms that are essential to ensure the correct operation of our products will be held in stock for the duration of the guarantee. They are listed at the back of our catalogues.

RETURNS:

Goods may not be returned to us for credit without our prior written approval obtained by the buyer from the Company and they are received in a good state (determined by our goods inwards department). All transportation costs for returned goods must be paid by the buyer. Goods must be returned with good protective packaging.

Deliveries less than a month old will be refunded at the invoiced price. For deliveries older than one month, a deduction will be made for checking, handling and administration costs. A repair and re-stocking fee will apply where appropriate.

Product returns are not permitted in the following circumstances: discontinued products, specially manufactured products, technical or aesthetic evolution of the product since the date of purchase, scratched or damaged products, products purchased more than one year previously, products with an expiry date. If sent to DELABIE, those products outside the scope of returns will be immediately destroyed/recycled, and will not be returned to the customer.

The schedule of standard deductions is as follows:

- return less than 1 month: refund at invoiced price
- return between 1 and 3 months: deduction of 15%
- return between 3 months and 1 year: deduction of 30%
- return after 1 year: no refund possible.

CLEANING - MAINTENANCE:

Clean with slightly soapy water only, using a soft cloth or sponge, rinse and dry thoroughly. Do not use abrasive or chlorine-based products (with a hydrochloric acid base), or dyes.

PHOTOGRAPHS AND DRAWINGS:

All photos, drawings or illustrations are for illustrative purposes only, without contractual obligation, and may be subject to change without notice. We reserve the right to modify designs and dimensions without notice and without recourse. This applies to all references, dimensions, information contained in various documents, catalogues, installation guides, price lists and websites, which can be modified or discontinued at any time without notice.

INTELLECTUAL PROPERTY AND USE OF CONTENT:

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EXCLUSIVE TERRITORIES:

In most countries throughout the world, our company has entered into exclusive agreements with organisations to import and distribute our products. Within this framework, our clients cannot sell our products outside their national borders without an express prior agreement on our part.

JURISDICTION:

Acceptance of an order delivered from France settles the contract under the French law. All disputes arising from the present contract will be settled definitively by the Court located in the area of our domicile, even in the event of multiple defendants, regardless of the delivery location or stipulated payment. All clauses to the contrary will be considered null by the mere fact of having dealt with our company.

AVAILABLE CATALOGUES:

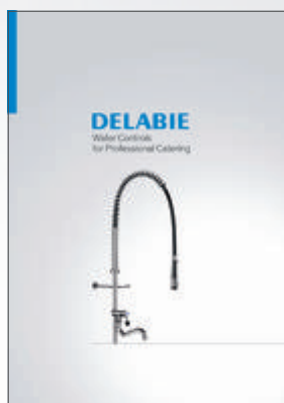
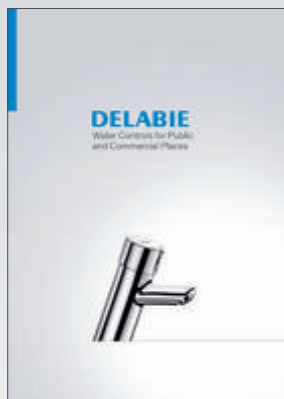
DOC.609INT: Water Controls for Public and Commercial Places

DOC.950INT: Accessibility and Independence - Hygienic Accessories for Public and Commercial Places

DOC.900INT: Water Controls for Healthcare Facilities and Retirement Homes

DOC.750INT: Stainless Steel Sanitary Ware

DOC.200INT: Water Controls for Professional Catering



DELABIE

18, rue du Maréchal Foch
80130 FRIVILLE - FRANCE

DELABIE S.C.S., share capital 1.000.000 € - RCS 615 680 089 Amiens

delabie.com