AVAILABLE CATALOGUES:

DOC 699INT: Water Controls for Public and Commercial Places
DOC 995INT: Accessibility and Independence - Hygienic Accessories for Public and Commercial Places
DOC 900INT: Water Controls for Healthcare Facilities and Retirement Homes
DOC 790INT: Stainless Steel Sanitary Ware
DOC 200INT: Water Controls for Professional Catering

18, rue du Maréchal Foch
80130 FRIVILLE - FRANCE

DELABIE S.C. S., share capital 1,000,000 € - RCS 615 680 089 Amiens

delabie.com
The general terms and conditions are valid for all contracts.

ORDERS AND QUOTATIONS:
These will be processed in order of receipt. We do not accept orders on orders for a call-off. Disbursements or any return of goods do not modify the terms and conditions of sale and customers waive any claims that may arise from incorrect orders, delays or of any error that may occur.

You can personalise by giving a project name and description, by choosing the order for the products to appear sting within Excel images.

This catalogue will then be available in Word, PDF and Excel formats.

The list of references available in BIM format is available.

PRODUCTS:
Our products are compliant with the certificate of sanitary conformity. All DELABIE products conform to the ISO 9001:2008 certification requirements. The certificate of conformity and the registration documents are available on our website delabie.com

The warranty applies to the loss of function, regardless of the form of delivery, as described in DELABIE’s T&Cs and SHIPPIE’s above, as well as liability for the damage they may cause.

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- non-compliance with installation, user and maintenance guidelines;
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- mechanical or electronic defects or failures induced by or caused by the customer, or a third party, or without our authorization using non-Delabie components or consumable items.

Delabie is therefore not responsible for the loss or damage caused by third parties as a result of the products.

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Deliveries are insured and shipped only and shall not be liable for any delay in delivery or carrying out work on site in the event of any lack of availability of goods, or where the company is beyond its control. Delays in delivery give rise to no compensation payment to the customer at no cost.

Scope:
Orders are sent to our distributors. We do not deliver to the consumer.

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The consumer is responsible for any transport and packing costs unless otherwise stated in the order or agreed. Delays may occur in the event of transport, especially during peak periods. If your order is sent to the wrong address and the delivery cannot be made, you must ask for a return of the order. Delays in delivery are beyond our control and may occur for reasons beyond our control.

Claims:
No delay can be allowed when the delay in reporting is 5 days for the following receipts of goods.

The whole of the delivery cannot be rejected because of partial damages or shortages.

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Our quotes do not amount to specifications; specifiers reserve the right to cancel existing orders or to demand payment guarantees.

Our estimates are non-compulsory and are solely responsible for the choice of products according to their intended use, current regulations and contractual guidelines.

PRICE:
The list of references are available in BIM format and published on our website. The list of prices are available for the following:
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- non-compliance with installation, user and maintenance guidelines;
- other factors independent of our products’ quality, for example, conditions or adverse cleaning products, the action of hard water, foreign bodies (e.g. gravel, sand, dirt, fillings, scale, etc.), chemical and electrolytic phenomena, lack of supervision, poor storage or poor maintenance;
- mechanical or electronic defects or failures induced by or caused by the customer, or a third party, or without our authorization using non-Delabie components or consumable items.

Deliveries are invoiced according to the conditions in force on the day of delivery, regardless of any delay in payment. The supplier reserves the right to cancel existing orders or to demand payment guarantees.

The general terms and conditions are valid for all contracts.
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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.

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.

LEGIONELLA

This bacteria lives naturally in soft water and artificial hydric environments.

For optimal development *Legionella* requires 2 main elements:
- water at a temperature between 25°C and 45°C.
- stagnating water in the presence of scale or corrosive elements.

Infections are contracted via breathing (inhaling aerosolised contaminated water) and can be the origin of a serious pulmonary infection: Legionellosis.

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).

<table>
<thead>
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<th>Monitoring levels for <em>Legionella</em> spp.:</th>
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<tr>
<td>Alert level</td>
</tr>
<tr>
<td>&lt; 100 CFU/L</td>
</tr>
</tbody>
</table>

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.

More than a third of all cases of *Pseudomonas aeruginosa* originate while the patient is in hospital care (37.16%). *Pseudomonas aeruginosa* is transmitted by hand by healthcare staff and via infected medical equipment. Invasive surgery presents a high risk of transmission of infectious agents.

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.

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**Infection control / DELABIE**

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**PSEUDOMONAS AERUGINOSA**

In the UK, the Department of Health and Social Care (DHSC) 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 DHSC 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***:

<table>
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<th>Level</th>
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<td>Satisfactory level</td>
<td>&lt; 1</td>
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<tr>
<td>Alert level</td>
<td>1 - 10</td>
</tr>
<tr>
<td>Curative action</td>
<td>&gt; 10</td>
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**For Legionella spp.**, the alert level is 100 CFU/L and the level for curative action is 1,000 CFU/L.

At levels between 1 and 10 CFU/100mL, the DHSC 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 DHSC advises repeat tests every six months.

In its report the DHSC 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. See more about DELABIE’s solutions on page 10.
WATER QUALITY: VARIOUS MONITORING POLICIES

France, Germany, 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, 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.

Pseudomonas aeruginosa, considered the third largest cause of fatal nosocomial infections, is also being monitored. In France there aren’t any regulations. Nevertheless, the technical guide “Water in healthcare establishments” drawn up in 2005 by a working group under the aegis of the Ministry of Health, mentions the monitoring levels for Bacillus pyocyaneus (Pseudomonas).

This guide recommends quarterly checks at points where water is considered to be representative of the actual quality of distributed water.

The Department of Health and Social Care (DHSC), Ministry of Health for 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 best 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, as is done in France.

In Germany, in the framework of monitoring for Pseudomonas aeruginosa, hospitals and healthcare establishments must test twice a year. The satisfactory level is 0 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.

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

According to the National Institute for Health and Care Excellence (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 4,200 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 French National Institute for Public Health Surveillance (InVS), 30% of Legionella cases identified in 2015 were linked to visits to hotels, tourist accommodation, campsites, swimming pools and sports stadia, compared to 14% linked to healthcare facilities (hospitals, retirement homes, etc.).
EUROPEAN WATER QUALITY REGULATIONS

Regular flush
According to the French, German and English regulations, water stagnation (in sanitary installations and mixers and taps) is a key factor in bacterial contamination. The European standard EN 806-5 requires that those sections of the installation that are used infrequently should be flushed at regular intervals. The recommended interval is once a week. All public and commercial buildings are affected, in particular schools and council buildings during the school holidays, campsites out of season, unoccupied hospital rooms, etc.

The German directive of April 2013, Hygiene in Drinking Water Installations VDI/DVGW 6023, requires purging to be carried out after 72 hours of stagnation in a sanitary installation (this also includes storage tanks). Note that the water in the bypass is not sufficiently renewed. They are therefore prohibited. If an installation is not used for 72 hours, rigorous protocols are put in place. DELABIE sees this as a step forward and proposes technical solutions to meet this requirement (see opposite: electronic controls).

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 by the Water Safety Group).

Removable mixers and taps
In addition to preventative measures, the HSE (Health and Safety Executive) 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
A circulating loop up to the point-of-use is not recommended. It doubles 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 pipe run volume 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.

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 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 31.

Thanks to these characteristics, DELABIE’s electronic controls are the only ones to guarantee a regular and complete renewal of the water in all the internal parts. Required by the 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 page 155.

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, plus water stagnation, 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 pages 164-165.

Flush systems with no cistern

- no water stagnation
- no bacterial development

Flush systems with no cistern

- no water stagnation
- no bacterial development
**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.

**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 smooth interiors**

All the internal parts of certain DELABIE’s 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**

To overcome water stagnation in water systems, all DELABIE’s 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.

**Water controls without non-return valves**

Cross flow between SHW/SCW is impossible. DELABIE has developed a unique patent enabling us to produce thermostatic mixers with Hot and Cold Water closing directly on the inlets, meaning there is no need for non-return valves. The risk of cross flow is eliminated. See opposite for more information.

**BIOSAFE hygienic outlet**

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. 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 anti-bacterial 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 micron 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 25-27.
THE END OF NON-RETURN VALVES

The use of water in healthcare facilities involves significant sanitary constraints. Bacterial contamination of water systems represents an extremely high risk to the health of patients with weak immune systems, mainly linked to the proliferation of Legionella spp. and Pseudomonas aeruginosa.

Cross flow between hot and cold water inevitably creates conditions favourable to bacterial development in water controls. In order to avoid this risk, all conventional thermostatic mixers have non-return valves. Therefore non-return valves are not reliable because sooner or later impurities prevent them from being watertight. In the event of failure, they are responsible for SHW/SCW cross flow causing irrecoverable conditions favourable to bacterial development inside water controls.

A new French norm, the NF M, which came into action at the end of 2016, demands that the closing of mixers is located upstream of the mixing chamber. No more need since then for non-return valves on water inlets. Conventionally used to prevent the hot water from entering the cold water supply (or vice-versa, according to the higher pressure), these valves are today considered as principal causes of bacterial development. Non-return valves are not reliable because sooner or later, they scale up and are blocked by impurities meaning they are no longer able to carry out their function.

Excerpts from a legal expert’s verdict in the investigation into the deaths, caused by Legionella, of 6 residents of a retirement home between 2006 and 2008 conclude that: “the drop-off of the zinc and copper hydroxide found on the non-return valves located upstream of the thermostatic mixer are responsible for the CW being heated up by the HW. It’s the triggering factor for bacterial proliferation ...”.

It is therefore fundamental that the closing mechanisms on water controls be located upstream of the mixing chamber in order to prevent all cross flow between SHW and SCW. As such, the non-return valves, whose reliability cannot be guaranteed, become redundant.

DELABIE has developed a unique patent enabling us to produce thermostatic mixers that do not need non-return valves. The risk of cross flow is therefore completely eliminated.

For more information see page 110.
DELABIE’S SOLUTIONS TO REDUCE THE RISK OF SCALDING

THE SECURITHERM CONCEPT

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 and 155). 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’s 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 that regulate or stabilise the temperature
• SECURITHERM individual thermostatic mixers:
A thermostatic cartridge guarantees temperature stability regardless of variations of pressure or flow rate in the circuit.
• SECURITHERM mixers with «EP» cartridge:
The EP pressure-balancing cartridge compensates for the unavoidable variations in pressure in the system ensuring that the water temperature at the outlet remains constant.

Mixers with automatic anti-scalding failsafe
SECURITHERM technology ensures an automatic and instant failsafe for users.
• SECURITHERM individual thermostatic mixers:
In the event of failure of the Cold Water supply, thermostatic mixers shut off the Hot Water immediately.
In the event of failure of the Hot Water supply, they also shut off the Cold Water.
• SECURITHERM mixers with «EP» cartridge:
In the event of Cold Water failure, the Hot Water flow rate on EP mixers is reduced therefore removing the risk of scalding for the user. In the event of Hot Water failure, the Cold Water is likewise reduced.

Correlation between temperature and the risk of scalding:

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Degree Burns Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>60°C</td>
<td>3rd degree burns in 3 seconds on average: 5 seconds for an adult, 1 - 2 seconds for a child</td>
</tr>
<tr>
<td>50°C</td>
<td>Burns in 7 seconds 3rd degree burns in 100 sec.</td>
</tr>
</tbody>
</table>

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

Discover our SECURITHERM solutions video
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. With Securitouch technology any risk of burns from the patient touching the mixer or grabbing it following a slip or loss of balance in the shower is eliminated.

• 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 certain Securitouch EP wall-mounted mechanical mixers 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.

Thermal shock safety
• SECURITHERM individual 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. H9741TP 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 to unblock the temperature limiter on sequential models.

• SECURITHERM 2620 mixers with «EP» cartridge: Mixers from the 2620EP range 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. This characteristic is also standard on models with a classic ceramic cartridge.
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. This also allows the installation of terminal micro-filters.

- **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’s 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).
DELABIE’s solutions for water and energy savings / DELABIE

DELABIE’S SOLUTIONS FOR SAVING WATER AND ENERGY

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:

<table>
<thead>
<tr>
<th>Category</th>
<th>Consumption (l/day)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Domestic</td>
<td>137</td>
</tr>
<tr>
<td>Hospitals or similar: 300 - 450 l/day</td>
<td></td>
</tr>
<tr>
<td>Retirement homes or care homes: up to</td>
<td>250</td>
</tr>
<tr>
<td>250 l/day</td>
<td></td>
</tr>
</tbody>
</table>

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

DELABIE’s 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.

The majority of DELABIE’s 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.

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 a DELABIE electronic mixer at 4 lpm. The price per m³ of mixed water is £7 excl. VAT.

<table>
<thead>
<tr>
<th>Water savings achieved in a 400 bed hospital</th>
<th>Conventional mixers</th>
<th>DELABIE mixers</th>
<th>DELABIE electronic mixers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of beds</td>
<td>400</td>
<td>400</td>
<td>400</td>
</tr>
<tr>
<td>Points-of-use for hand washing</td>
<td>BASIN</td>
<td>BASIN</td>
<td>BASIN</td>
</tr>
<tr>
<td>Average length of flow/day/bed</td>
<td>20 min.</td>
<td>20 min.</td>
<td>7.5 min.</td>
</tr>
<tr>
<td>Number of days used/year</td>
<td>290</td>
<td>290</td>
<td>290</td>
</tr>
<tr>
<td>Mixer consumption in lpm</td>
<td>9</td>
<td>5</td>
<td>4</td>
</tr>
<tr>
<td>Annual consumption in m³</td>
<td>20,880 m³</td>
<td>11,600 m³</td>
<td>3,480 m³</td>
</tr>
<tr>
<td>Annual consumption in £</td>
<td>£146,160</td>
<td>£81,200</td>
<td>£24,360</td>
</tr>
<tr>
<td>Annual consumption per mixer in £</td>
<td>£365</td>
<td>£203</td>
<td>£61</td>
</tr>
<tr>
<td>Annual saving excl. VAT</td>
<td>£141,800</td>
<td>£64,400</td>
<td>£121,800</td>
</tr>
</tbody>
</table>

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

Regulated flow rate

Some of DELABIE’s electronic mixers and taps are regulated at 4 lpm. The majority of DELABIE’s electronic mixers and taps are, however, regulated at 3 lpm. The flow rate remains constant regardless of pressure variations in the system.

DELABIE’s electronic mixers for washbasins: 85% water savings

Compared to conventional mixers, DELABIE’s 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 flow time is reduced to the necessary minimum (wetting, rinsing).

Regulated flow rate

Some of DELABIE’s electronic mixers and taps are regulated at 4 lpm. The majority of DELABIE’s electronic mixers and taps are, however, regulated at 3 lpm. The flow rate remains constant regardless of pressure variations in the system.
ENVIRONMENTAL LABELS

Saving drinking water is a growing concern, whether it is to achieve green credentials for a building or, more generally, in an ecological context. An adapted mixer, tap or valve ensures the sanitary quality of the water and its sustainable use.

Today, many project owners want an accreditation for their building as solid proof of its environmental performance. Destined for accommodation, industrial or commercial 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.

DELABIE is committed to the environmental approach for buildings in accordance with the main environmental labels such as BREEAM, LEED, HQE, ESTIDAMA, etc.

DELABIE is also participating in the development of an environmental label as part of the European Bathroom Forum. This label is voluntary and will come into effect when it is approved by the European Commission.

THE ADVANTAGES OF SPECIALIST WATER CONTROLS FOR PUBLIC PLACES

The DELABIE Group, committed to preserving the future, contributes to sustainable development by limiting the use of natural resources.

Water savings
DELABIE’s water controls (electronic and time flow) reduce waste and prevent user neglect. Water volumes are optimised to the necessary minimum without altering efficiency and comfort during use.

"Choosing DELABIE products is choosing environmentally friendly products"

Water controls which shut-off automatically reduce waste and prevent user neglect. This is achieved when hands are removed from the detection zone (for electronic controls) or after a timed flow (for time flow controls): 7 seconds for washbasins and WCs, and 30 seconds for showers.

For perfect optimisation of the water resource, the flow rates of DELABIE’s water controls are reduced to 1.5 lpm for washbasins and 6 lpm for showers.

WCs with 3L/6L dual flush and adaptable flush programmes on the electronic controls are additional ways to save water.

Reducing water consumption is also an integral part of achieving accreditation. These savings also help to reduce the energy bill by reducing the energy required to heat the water (it takes approximately 34kW to heat 1m³ of water).

DELABIE is committed to the environmental approach for buildings in accordance with the main environmental labels such as BREEAM, LEED, HQE, ESTIDAMA, etc.

DELABIE is also participating in the development of an environmental label as part of the European Bathroom Forum. This label is voluntary and will come into effect when it is approved by the European Commission.

GREEN time flow solutions
DELABIE’s time flow controls operate independently without electrical supply, therefore, they do not consume any energy. They are made from sustainable materials that are 100% recyclable. They are equipped with self-cleaning time flow mechanisms. Their lifespan exceeds 500,000 operations.

Economical electronic solutions
DELABIE’s electronic controls require very little energy to operate. The battery-operated versions operate independently for 3 - 6 years on average. They use standard, affordable and recyclable batteries.

Effective direct flush system for WCs
Flush valves consume a significant amount of water. Leaks from cisterns are practically invisible and can quickly inflate the water bill.

DELABIE develops direct flush systems exclusively. Connected directly to the system, the flush is more effective, with no water stagnation and a reduced risk of leaks. The flush mechanisms are reinforced for intensive use.

The 3L/6L dual flush, which can be adjusted to 2L/4L, on the time flow versions help to reduce the water volume. Electronic water controls offer intelligent flushing which adapts to the required use.

Sustainable water controls
In addition to their undeniable advantages in terms of sustainable development, they also provide guarantees of reliability, simple maintenance and hygiene.

Find all our specific solutions for public and commercial places in our dedicated catalogue (DOC 609INT).
THE PRINCIPAL ACCREDITATION SCHEMES FOR BUILDINGS

American LEED
Leadership in Energy and Environmental Design
- High environmental quality buildings
- Global evaluation for buildings
- Credit system
- 4 levels of certification

French HQE
"Haute Qualité Environnementale"
- Environmental approach
- Controlling the building's lifecycle
- Points system
- 3 levels of performance

German DGNB
"Deutsche Gesellschaft für Nachhaltiges Bauen"
- Sustainable quality and building development
- Hydro-economic solutions
- New buildings
- Points systems with 3 levels of certification

Middle Eastern ESTIDAMA
Sustainable development
- Sustainable way of life
- Methodology for building design
- Preservation of Abu Dhabi
- 3 levels of certification

British BREEAM
BRE's Environmental Assessment Method
- Sustainable building development
- Environmental performance
- New buildings or refurbishment projects
- Credit system

Dutch BREEAM NL
BRE Environmental Assessment Method
- Sustainable building development
- Environmental performance
- New buildings or refurbishment projects
- Credit system

German BNB
"Bewertungssystem Nachhaltiges Bauen für Bundesgebäude"
- Sustainable approach
- Controlling the building's lifecycle
- Public buildings
- Points systems with 3 levels of performance

ENVIRONMENTAL LABELS
The performance levels of DELABIE's water controls, in terms of water and energy savings, help to achieve the highest levels of the international environmental labels.
Terminal Filters, controlling the bacteriological quality of water at the mixer/tap outlet

ANTI-BACTERIAL SPOUTS

ANTI-BACTERIAL CARTRIDGES

ANTI-BACTERIAL SHOWER HEADS
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:

1. 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.
2. 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.

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 DHSC 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 micro-filters 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 micro-filters are a means to restore the bacteriological quality of water at the point-of-use (anti-bacterial 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**

All-germ anti-bacterial filters BIOFIL filters are CE class I. Their role is to protect immunosuppressed patients and prevent them from falling ill. The filters are designed for hand washing, showers, patient hygiene or rinsing medical devices. 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 and highly sensitive areas such as: burns units, plastic surgery departments, rinsing endoscopes and surgical hand washing. It is delivered via sterile terminal filters. Certificate of conformity available on request.

**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.
Terminal filters

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 10⁷ 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.


LIFESPAN

BIOFIL all-germ anti-bacterial 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 especially in sensitive wards.

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 lifespan of all equipment is greatly increased.

RESISTANT TO DIFFERENT WATER SYSTEM TREATMENTS

BIOFIL filters will withstand thermal and chemical shocks. During chemical or thermal shocks, impurities are trapped in the filter and reduce its lifespan. 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 IN UK

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.
All BIOFIL filters conform to the Medical Devices directive 93/42/CEE amendment 2007/47/CE and benefit from CE marking, class I.

Certificate of sanitary compliance

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.
**TERMINAL FILTERS**

**COMPACT DIMENSIONS**
- 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: 2x 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

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

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

Displayed model: BIOFIL cartridge (ref. 30050A.10P) and BIOFIL spout (ref. 30040.10P)
Terminal filters BIOFIL spouts / DELABIE

- 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 CE class I anti-bacterial filters:
  ref. 20040.10P individually wrapped, sterile.
- Non-sterile CE class I anti-bacterial filters:
  ref. 30040.10P individually wrapped, non-sterile.
- Weight: 40g.

* Average flow rate during the product lifespan.

Quick and easy to install:
1. Pull the BIOFIL spout towards you to remove it.
2. Insert another spout filter in its place.

<table>
<thead>
<tr>
<th>10 BIOFIL spouts</th>
<th>20040.10P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sterile CE</td>
<td>20040.10P</td>
</tr>
<tr>
<td>Non-sterile CE</td>
<td>30040.10P</td>
</tr>
</tbody>
</table>
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: 9 bar.
- Maximum lifespan: 62 days after installation.
- Compatible with and resistant to chemical and thermal shocks.
- Available in two models:
- Weight: 80g.

* Average flow rate during the product lifespan.

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).

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).

10 BIOFIL cartridges

| Cartridge A (without waterproof seal) | Sterile CE, rain effect | 20050A.10P |
| Cartridge A (without waterproof seal) | Sterile CE, laminar flow | 20051A.10P |
| Non-sterile CE, rain effect | 30050A.10P |
| Non-sterile CE, laminar flow | 30051A.10P |

| Cartridge P (with waterproof seal) | Sterile CE, rain effect | 20050P.10P |
| Cartridge P (with waterproof seal) | Sterile CE, laminar flow | 20051P.10P |
| Non-sterile CE, rain effect | 30050P.10P |
| Non-sterile CE, laminar flow | 30051P.10P |

* Provisional availability 1st half 2020. Please contact sales office to check availability.

Push-fit connector for BIOFIL 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).

* Provisional availability 1st half 2020. Please contact sales office to check availability.
Anti-bacterial BIOFIL shower head
Single use shower head filter

- 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 CE class I anti-bacterial filters: ref. 20060.10P and 20061.10P individually wrapped, sterile.
  - Non-sterile CE class I anti-bacterial filters: ref. 30060.10P and 30061.10P individually wrapped, non-sterile.
- Weight: 120g.

* Average flow rate during the product lifespan.

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.

10 BIOFIL shower heads
Threaded shower head (attaches directly to flexible hose)
Sterile CE 20061.10P
Non-sterile CE 30061.10P

Push-fit shower head (requires a push-fit connector)
Sterile CE 20060.10P
Non-sterile CE 30060.10P
Non-contact controls for washbasins, sinks and troughs

Electronic basins/sinks

Electronic controls

Foot or knee-operated controls, spouts
BIOSAFE: INFECTION CONTROL

Opens/closes automatically, with no manual contact
DELABIE’s electronic mixers and taps 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 mixer or tap is not used for prolonged periods of time, water stagnates in the pipework, which favours the development of bacteria (e.g. isolated points-of-use, facilities closed during holidays, etc.). DELABIE’s electronic mixers and taps have a 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 technology without a membrane (patented system). 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.

No risk of cross flow between SHW/SCW
In France, the new NF M norm for Medical Environments requires that closing mechanisms for water controls be located upstream of the mixing chamber. This is to prevent any risk of cross flow between Hot Water and Cold Water, one of the major causes of bacterial proliferation. For more information see page 11.

Hygienic flow straightener
Unlike conventional aerators, DELABIE’s flow straighteners are specially made from Hostaform®, a material that is highly scale-resistant (build-up of scale is 10 times slower). They minimise water retention and the build-up of dirt, and prevent 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.

85% WATER AND ENERGY SAVINGS

Water savings
Compared to conventional mixers and taps, DELABIE’s electronic mixers and taps 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).

• Regulated flow rate
Some of DELABIE’s electronic mixers and taps are regulated at 4 lpm. The majority of DELABIE’s electronic taps/mixers are, however, regulated at 3 lpm. The flow rate remains constant regardless of pressure variations in the system. The flow rate can be adjusted from 1.5 lpm (see Environmental labels) to 6 lpm.

Energy savings
DELABIE’s electronic mixers and taps 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’s battery-operated electronic models have an average lifespan 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’s mixers and taps also result in energy savings.

Environmental labels
The water and energy saving performance of DELABIE’s electronic mixers and taps means that the buildings achieve the highest performance standards for international rating schemes such as LEED, BREEAM, HQE or ESTIDAMA. For more information see page 17.
SPECIFICALLY DESIGNED FOR COMMERCIAL ENVIRONMENTS

Resistant to intensive use and vandalism
DELABIE’s electronic mixers and taps are specifically designed to withstand intensive use and vandalism, both voluntary and involuntary. The mixer and tap bodies are made from chrome-plated metal, fitted with shock-resistant mechanisms and sensors. The 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’s products are easy to install and adjustments are kept to a minimum in order to save time during installation.

- Independent electronic control unit: 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 batteries*:
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 batteries can be changed without shutting off the water supply or removing the mixer/tap.

- 230/6V mains supply (plug in or recessed)*:
To operate, 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).

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

CE Marked
DELABIE’s electronic controls are compliant with European directives CEM 2014/30/UE and BT 2014/35/UE.

10-year warranty against any manufacturing defects.

DESIGN
DELABIE’s 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 mixers and taps reduces the build-up of dirt and facilitates cleaning. Easy but secure access to the control mechanisms provides easy maintenance.

* Depending on model
ELECTRONIC BASINS/SINKS

TEMPERATURE CONTROL
Ergonomic hygiene control lever
Easy to grip

MAXIMUM TEMPERATURE LIMITER
Anti-scalding safety

BODY AND SPOUT WITH SMOOTH INTERIORS
Infection control

SCALE-RESISTANT FLOW STRAIGHTENER 4 LPM
Water savings and minimal servicing

SHOCK-RESISTANT SENSOR

Displayed model: TEMPOMATIC MIX (ref. 20164T1)
HEMI round basin 120490 - TEMPOMATIC MIX BIOCLIP electronic basin mixer 208701
Electronic soap dispenser 512066S - Paper towel dispenser 510601S - Rectangular wall-mounted bin 510415S
**TEMPOMATIC MIX for basins**

Electronic mains/battery-operated mixer, swivelling spout

- Independent IP65 electronic control unit.
- 230/12V mains supply with transformer or battery-operated with 123 6V Lithium batteries.
- Flow rate pre-set at 4 lpm at 3 bar, can be adjusted from 1.5 - 6 lpm.
- Scale-resistant flow straightener suitable for fitting a terminal filter (see page 26).
- Body and spout with smooth interiors (reduces bacterial development).
- Adjustable duty flush (pre-set flush ~60 sec. every 24hr after last use).
- Shock-resistant infrared presence detection sensor.
- Chrome-plated solid brass body and spout with fixing reinforced by 2 stainless steel rods.
- Hygiene lever L. 100mm controls temperature.
- PEX flexibles with filters and solenoid valves M⅜".
- Anti-blocking security.
- Solenoid valves are upstream of the mixing chamber.

Two shut-off options on 230/12V models:
- Standard mode: timed flow with automatic shut-off.
- ON/OFF mode: user shuts off flow voluntarily or automatic shut-off after 30 minutes of flow. Thermal shocks are possible.

**Pro tip:** in ON/OFF mode position the sensor on the side of the mixer.

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**TEMPOMATIC MIX BIOCLIP for basins**

Electronic mains supply mixer, 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.
- Body and spout with smooth interiors (reduces bacterial development).
- Adjustable duty flush (pre-set flush ~60 sec. every 24hr after last use).
- Shock-resistant infrared presence detection sensor.
- Chrome-plated solid brass body and spout with fixing reinforced by 2 stainless steel rods.
- Hygiene lever L. 100mm controls temperature.
- PEX flexibles with filters and solenoid valves M⅜".
- Anti-blocking security.
- Solenoid valves are upstream of the mixing chamber.

Two shut-off options on 230/12V models:
- Standard mode: timed flow with automatic shut-off.
- ON/OFF mode: user shuts off flow voluntarily or automatic shut-off after 30 minutes of flow. Thermal shocks are possible.

**Pro tip:** in ON/OFF mode position the sensor on the side of the mixer.
TEMPOMATIC MIX PRO for basins
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 batteries.
- Flow rate pre-set at 4 lpm at 3 bar, can be adjusted from 1.5 - 6 lpm.
- Scale-resistant flow straightener suitable for fitting a terminal filter (see page 26).
- Swivelling spout with smooth interior (reduces bacterial development).
- Removable spout for cleaning and disinfection.
- Adjustable duty flush (pre-set flush ~60 sec. every 24hr after last use).
- Shock-resistant infrared presence detection sensor.
- Chrome-plated solid brass body with fixing reinforced by 2 stainless steel rods.
- PEX flexibles with filters and solenoid valves.
- Anti-blocking security.
- Side temperature control with adjustable maximum temperature limiter and ergonomic long lever.
- Solenoid valves are upstream of the mixing chamber.

Two shut-off options on 230/12V models:
> Standard mode: timed flow with automatic shut-off.
> ON/OFF mode: user shuts off flow voluntarily or automatic shut-off after 30 minutes of flow. Thermal shocks are possible.

TEMPOMATIC PRO for basins
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 batteries.
- Flow rate pre-set at 4 lpm at 3 bar, can be adjusted from 1.5 - 6 lpm.
- Scale-resistant flow straightener suitable for fitting a terminal filter (see page 26).
- Swivelling spout with smooth interior (reduces bacterial development).
- Removable spout for cleaning and disinfection.
- Adjustable duty flush (pre-set flush ~60 sec. every 24hr after last use).
- Shock-resistant infrared presence detection sensor.
- Chrome-plated solid brass body with fixing reinforced by 2 stainless steel rods.
- PEX flexible with filter and solenoid valve.
- 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 voluntarily or automatic shut-off after 30 minutes of flow. Thermal shocks are possible.

TEMPOMATIC MIX PRO for basins
Electronic mixer, mains supply or battery-operated

- 230/12V mains supply, M ⅜" 495253
- 230/12V mains supply, Ø 15mm for compression fittings 4952515
- 6V Lithium battery-operated, M ⅜" 495257
- 6V Lithium battery-operated, Ø 15mm for compression fittings 49525715

We recommend installing a TMV (see page 90)
TEMPOMATIC MIX 2 for basins
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 batteries.
- Flow rate pre-set at 4 lpm at 3 bar, can be adjusted from 1.5 - 6 lpm.
- Scale-resistant flow straightener.
- Adjustable duty flush (pre-set flush ~60 sec. every 24hr after last use).
- Shock-resistant 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.
- Solenoid valves are upstream of the mixing chamber.

TEMPOMATIC 2 for basins
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 batteries.
- Flow rate pre-set at 4 lpm at 3 bar, can be adjusted from 1.5 - 6 lpm.
- Scale-resistant flow straightener.
- Adjustable duty flush (pre-set flush ~60 sec. every 24hr after last use).
- Shock-resistant infrared presence detection sensor.
- Chrome-plated solid brass body.
- PEX flexible with filter and solenoid valve.
- Fixing reinforced by 2 stainless steel rods.
- Anti-blocking security.

We recommend installing a TMV (see page 90)
DELABIE / Electronic controls BINOPTIC deck-mounted

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

BINOPTIC MIX for basins
Electronic mixer, mains supply or battery-operated

- Independent IP65 electronic control unit.
- 230/12V mains supply with transformer or 123 6V Lithium batteries.
- Flow rate pre-set at 3 lpm at 3 bar, can be adjusted from 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 for basins
Electronic tap, mains supply or battery-operated

- Independent IP65 electronic control unit.
- 230/12V mains supply with transformer or 123 6V Lithium batteries.
- Flow rate pre-set at 3 lpm at 3 bar, can be adjusted from 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 MIX basin mixer
230/12V mains supply
M5 378MCH
Ø 15mm for compression fittings 378MCH15
6V Lithium battery-operated
M5 478MCH
Ø 15mm for compression fittings 478MCH15
For long lever, please add LH after the reference

BINOPTIC basin tap
230/12V mains supply
M5 378015
Ø 15mm for compression fittings 37801515
6V Lithium battery-operated
M5 478015
Ø 15mm for compression fittings 47801515
We recommend installing a TMV (see page 90)
Electronic controls BINOPTIC deck-mounted / DELABIE

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

BINOPTIC MIX for basins
Electronic mixer, mains supply or battery-operated

• Independent IP65 electronic control unit.
• 230/12V mains supply with transformer or 123 6V Lithium batteries.
• Flow rate pre-set at 3 lpm at 3 bar, can be adjusted from 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 and ergonomic LH lever.

Two drop heights available depending on the choice of basin:
H. 170mm for semi-recessed washbasins.
H. 250mm for countertop washbasins.

BINOPTIC for basins
Electronic tap, mains supply or battery-operated

• Independent IP65 electronic control unit.
• 230/12V mains supply with transformer or 123 6V Lithium batteries.
• Flow rate pre-set at 3 lpm at 3 bar, can be adjusted from 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).

Two drop heights available depending on the choice of basin:
H. 170mm for semi-recessed washbasins.
H. 250mm for countertop washbasins.

BINOPTIC MIX basin mixer
H. 170mm
230/12V mains supply, MIV⁺ 388MCHLH
230/12V mains supply, Ø 15mm for compression fittings 388MCHLH15
6V Lithium battery-operated, MIV⁺ 488MCHLH
6V Lithium battery-operated, Ø 15mm for compression fittings 488MCHLH15
H. 250mm
230/12V mains supply, MIV⁺ 398MCHLH
230/12V mains supply, Ø 15mm for compression fittings 398MCHLH15
6V Lithium battery-operated, MIV⁺ 498MCHLH
6V Lithium battery-operated, Ø 15mm for compression fittings 498MCHLH15

BINOPTIC basin tap
H. 170mm
230/12V mains supply, MIV⁺ 388015
230/12V mains supply, Ø 15mm for compression fittings 38801515
6V Lithium battery-operated, MIV⁺ 488015
6V Lithium battery-operated, Ø 15mm for compression fittings 48801515

We recommend installing a TMV (see page 90)
TEMPOMATIC MIX 4 for basins
Electronic mixer with integrated batteries

- Battery-operated with integrated 123 6V Lithium batteries.
- 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 from 1.5 - 6 lpm.
- Scale-resistant flow straightener.
- Duty flush (~60 sec. every 24 hr 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 filters and non-return valves.
- Fixing reinforced by 2 stainless steel rods.
- Anti-blocking security.
- Side temperature control with adjustable maximum temperature limiter.

TEMPOMATIC 4 for basins
Electronic tap with integrated batteries

- Battery-operated with integrated 123 6V Lithium batteries.
- 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 from 1.5 - 6 lpm.
- Scale-resistant flow straightener.
- Duty flush (~60 sec. every 24 hr 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.

TEMPOMATIC MIX 4 battery-operated basin mixer
With stopcocks F ⅜" 490006
With stopcocks Ø 15mm for compression fittings 49000615
Without stopcocks F ⅜" 490106
For long lever, please add LH after the reference

TEMPOMATIC 4 battery-operated basin tap
With stopcock F ⅜" 440006
With stopcock Ø 15mm for compression fittings 44000615
Without stopcock F ⅜" 440106
We recommend installing a TMV (see page 90)
TEMPOMATIC MIX 4 for basins
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 from 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.

TEMPO MA4CIC 4 mixer with mains supply
Recessed mains supply
With stopcocks F1/2” 490000
With stopcocks Ø 15 mm for compression fittings 490001
Without stopcocks F1/2” 490100
Plug-in mains supply
With stopcocks F1/2”, European plug 490001
With stopcocks Ø 15 mm for compression fittings, British plug 49000115
Without stopcocks F1/2”, European plug 490101
For long lever, please add LH after the reference

TEMPOMATIC 4 for basins
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 from 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.

TEMPO MA4CIC 4 tap with mains supply
Recessed mains supply
With stopcock F1/2” 440000
With stopcock Ø 15 mm for compression fittings 440001
Without stopcock F1/2” 440100
Plug-in mains supply
With stopcock F1/2”, European plug 440001
With stopcock F1/2”, British plug 440001HK
With stopcock Ø 15 mm for compression fittings, British plug 44000115
Without stopcock F1/2”, European plug 440101
We recommend installing a TMV (see page 90)
Option: copper tails (see page 93)
Surgical scrub-up trough with high upstand 3 services 187000 - TEMPOMATIC electronic basin tap with BIOCLIP spout 2080472
Stainless steel paper towel dispenser 6607D
Electronic controls TEMPOMATIC wall-mounted / DELABIE

TEMPOMATIC for basins with BIOCLIP spouts
Electrical control unit:
- Independent IP65 electronic control unit.
- 230/12V mains supply with transformer.
- Flow rate limited to 4 lpm at 3 bar.
- Supplied with either 2 removable BIOCLIP stainless steel spouts or 1 disposable Hostaf orm® spout.
- Base and spout with smooth interiors (reduces bacterial development).
- Adjustable duty flush (pre-set flush ~60 sec. every 24 hr after last use).
- Separate sensor for mounting on panels.
- Solenoid valve with integrated filter.
- Ø 60 mm chrome-plated brass base.
- Anti-blocking security.
- Recommended installation height: 110-200 mm above the basin surface.

Two shut-off options:
- Standard mode: timed flow with automatic shut-off.
- ON/OFF mode: user shuts off flow voluntarily or automatic shut-off after 30 min of flow.
Thermal shocks are possible.

TEMPOMATIC for basins
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 from 1.5 - 6 lpm.
- Scale-resistant flow straightener.
- Adjustable duty flush (pre-set flush ~60 sec. every 24 hr after last use).
- Shock-resistant infrared presence detection sensor for walls ≤ 155 mm.
- Anti-blocking security.
- Solenoid valve with integrated filter.
- Chrome-plated fixed spout L. 170 mm for walls ≤ 165 mm with anti-rotating pin.
- Wall plate flush to the wall.
- Threaded rods can be cut to size.
- Recommended installation height: 110-200 mm above the basin surface.

TEMPOMATIC wall-mounted basin tap with BIOCLIP spout
Stainless steel spout, M½”
20804T2

Stainless steel spout, Ø 15 mm for compression fittings
20804T215

Dispersable spout, M½”
20801T2

We recommend installing a TMV (see page 90)
Option: BIOFIL filter spouts (see page 47)

TEMPOMATIC cross wall tap
M½”
441157

Ø 15 mm for compression fittings
44115715

We recommend installing a TMV (see page 90)
Alternative spout and cross wall lengths available on request
DELABIE / Electronic controls BINOPTIC wall-mounted

- 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 for basins**
Electronic cross wall 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 from 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 ≤ 110mm.
- Cable L. 120mm 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.
- Recommended installation height: 110-200mm above the basin surface.

**BINOPTIC for basins**
Electronic recessed or cross wall mains supply tap

- 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 - 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.
- Filter and solenoid valve.
- Chrome-plated brass body.
- Chrome-plated spout for cross wall installation ≤ 110mm.
- Anti-blocking security.
- Spout with smooth interior and low water volume (reduces bacterial development).
- Recommended installation height: 110-200mm above the basin surface.

**BINOPTIC MIX cross wall basin mixer**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>379MCH</td>
<td>Recessed spout L. 200mm, Ø 15mm</td>
</tr>
<tr>
<td>379MCH15</td>
<td>Ø 15mm for compression fittings</td>
</tr>
</tbody>
</table>

For long lever, please add “L” after the reference.

**BINOPTIC wall-mounted basin tap**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>379ENC</td>
<td>Recessed spout L. 200mm</td>
</tr>
<tr>
<td>379ENC15</td>
<td>Ø 15mm for compression fittings</td>
</tr>
<tr>
<td>379DER</td>
<td>For walls ≤ 190mm, spout L. 205mm</td>
</tr>
<tr>
<td>379DER15</td>
<td>Ø 15mm for compression fittings</td>
</tr>
<tr>
<td>379D13</td>
<td>For walls ≤ 190mm, spout L. 135mm</td>
</tr>
<tr>
<td>379D1315</td>
<td>Ø 15mm for compression fittings</td>
</tr>
</tbody>
</table>

Other sensor cable lengths available on request (up to 5m)
TEMPOMATIC MIX 4 for basins
Wall-mounted electronic mixer, mains/battery-operated

- 230/6V mains supply or battery-operated with integrated 123 6V Lithium batteries.
- 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 from 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 metal body.
- Cap fixed in place by 2 concealed screws.
- Stopcocks.
- Anti-blocking security.
- Side temperature control with adjustable maximum temperature limiter.
- Recommended installation height: 110-200mm above the basin surface.

Provisional availability 2nd half 2019.
Please contact sales office to check availability.

TEMPOMATIC 4 for basins
Wall-mounted electronic tap, mains/battery-operated

- 230/6V mains supply or battery-operated with integrated 123 6V Lithium batteries.
- 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 from 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 metal body.
- Cap fixed in place by 2 concealed screws.
- Stopcock on the mains versions.
- Anti-blocking security.
- Recommended installation height: 110-200mm above the basin surface.

We recommend installing a TMV (see page 90)
DELABLE / Non-contact controls
Foot or knee-operated controls

- BIOSAFE infection control: no manual contact, automatic timed or instant shut-off depending on the model
- Comfort: automatic shut-off

TEMPOGENOU
Knee-operated time flow basin valve

- Time flow ~7 seconds.
- Flow rate pre-set at 3 lpm at 3 bar, can be adjusted from 1.5 - 6 lpm.
- Control lever reinforced by an internal stainless steel rod.
- Solid brass wall plate with reinforced fixing via 4 stainless steel screws on the in-line models.
- Cold or mixed water supply.
- Chrome-plated solid brass body.

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

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

TEMPOGENOU valve
Straight for in-line inlet, M½” 735400
Straight for in-line Ø 15mm for compression fittings 73544715
Angled for recessed inlet, M½” 734100

We recommend installing a TMV (see page 90)
Option: spouts (see pages 47-49)

MIXFOOT mixer
Floor-mounted, stud nut Ø 14mm 739000
Floor-mounted M½” 739100
Wall-mounted M½” 739102

MONOFOOT valve
Floor-mounted, stud nut Ø 14mm 736001
Floor-mounted M½” 736101
Wall-mounted M½” 736102

We recommend installing a TMV (see page 90) with the MONOFOOT valve
Option: spouts (see pages 47-49)
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 spout (see opposite).
- Base and spout with smooth interiors (reduces bacterial development).

**Related products**

**BIOCIP stainless steel spouts**
- **Removable spout** for cleaning/disinfection or autoclaving.
- **Hygienic flow straightener**, suitable for fitting a terminal filter (see BIOFIL cartridges page 26).

**BIOCIP disposable spouts**
- **Removable, disposable spout** made from recyclable Hostaform® with star-shaped flow straightener.
- 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 25).

**BIOCIP 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 25).

**Options**: disposable spouts or BIOFIL filter spouts (see opposite)
Non-contact mixers/taps (see opposite) or electronic mixers/taps (see pages 35-45)
DELABIE / Non-contact controls

**Spouts**

**Fixed L-shaped spout**
Wall-mounted

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

**Fixed spout with wall plate**
Wall-mounted

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

**Fixed spout**
Wall-mounted

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

**Fixed wall-mounted L-shaped universal spout**

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

**Fixed spout with wall plate**
Cross wall

- Spout Ø 32mm and wall plate Ø 60mm, M½".
- L. 120mm.
- 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 regulated at 3 lpm.

**Fixed 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.

**Fixed cross wall spout with wall plate**

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

**Alternative lengths available on request**

**Fixed cross wall spout**

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

**Alternative cross wall lengths available on request**

**Back-nut with 3 screws**

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

Swivelling swan neck spout
Deck-mounted

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

Fixed tubular spout
Deck-mounted

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

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.

ECO flow straightener
Pre-set at 3 lpm

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

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 (for more information see pages 96 and 97).
SECURITHERM
thermostatic and pressure-balancing mixers for basins, sinks and troughs

SEQUENTIAL THERMOSTATIC MIXERS 56

DUAL CONTROL THERMOSTATIC MIXERS 59

PRESSURE-BALANCING MIXERS 65
SECU RITHERM: optimised anti-scalding failsafe

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’s thermostatic mixers the hot water shut-off is complete (with no trickle of water).
If the hot water supply fails, DELABIE’s SECURITHERM mixers also shut off the cold water supply.

Maximum temperature limiter
All DELABIE’s 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 standard dual control models simply press the little red button with a pointed tool to override the maximum temperature limiter (see page 13).
- Remove the control lever to unblock the temperature limiter index ring on sequential models.

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 thermally insulated, preventing any risk of burns when touching the mixer.

45% WATER AND ENERGY SAVINGS

Flow rate regulated at 5 lpm or 7 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 (sequential models).
They provide significant water and energy savings while ensuring optimal user comfort.
**BIOSAFE: INFECTION CONTROL**

**No non-return valves**
**SHW/SCW cross flow is impossible**
DELABI has developed a unique system that enables sequential thermostatic mixers to close on Hot Water and Cold Water directly at the inlets, making non-return valves completely redundant. The risk of cross flow is, therefore, completely eliminated. *For more information see page 11.*

**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. *For more information see page 10.*

**Available versions**
- BIOCLIP mixers with removable spouts are supplied with 2 stainless steel 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.

**Body with smooth interior**
All the internal parts of the body and spout of the majority of DELABI’s mixers/taps are completely smooth, reducing biofilm attachment and making it easier to treat. *For more information see page 10.*

**Low volume of standing water in the body**
Some of DELABI’s 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. The risk of bacterial proliferation is reduced.

Sequential thermostatic mixers also possess the advantage of having only one mechanism rather than two like dual control models. Therefore, less components are in contact with water and there is less standing water in the mixer.

**Specifically designed spout heights**
- A high spout reduces the risk of retro-contamination by bacteria.
- Deck-mounted mixers with high spouts and wall-mounted mixers 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, 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 pages 96-97.*

**PEX flexible supply hoses**
These flexible hoses will withstand thermal and chemical shocks undertaken in healthcare facilities for preventative or curative treatment against the development of bacteria. 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.
**SECURITHERM THERMOSTATIC MIXER**
Temperature stability
HW supply shuts off automatically if CW supply fails

**SEQUENTIAL CONTROL TO OPEN/CLOSE**
Improved ergonomics and functionality

**MAXIMUM TEMPERATURE LIMITER**
Anti-scalding failsafe

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

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

**ERGONOMIC HYGIENE CONTROL LEVER**
Easy to grip

**SECURITOUCH TECHNOLOGY**
Total thermal insulation

Displayed model: SECURITHERM basin mixer (ref. H9600)
**SECURITHERM BIOCLIP for basins H. 85mm**
Removable sequential thermostatic mixer

- Can be removed entirely for cleaning/disinfection (see page 10).
- Anti-scaling failsafe: immediate shut-off if cold water supply fails.
- Securitouch thermal insulation prevents burns.
- No risk of cross flow between hot and cold water.
- No non-return valves on the inlets.
- Straight spout H. 85mm L. 120mm with hygienic flow straightener.
- Scale-resistant sequential thermostatic 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.
- Fixing reinforced by 2 stainless steel rods.

**SECURITHERM for basins H. 85mm**
Sequential thermostatic mixer

- Anti-scaling failsafe: immediate shut-off if cold water supply fails.
- Securitouch thermal insulation prevents burns.
- No risk of cross flow between hot and cold water.
- No non-return valves on the inlets.
- Straight spout H. 85mm L. 120mm with hygienic flow straightener.
- Scale-resistant sequential thermostatic 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.
- Fixing reinforced by 2 stainless steel rods.
**SECURITHERM** anti-scalding failsafe: 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

**No non-return valves on the inlets:** no risk of cross flow between HW and CW, reduced risk of bacterial proliferation

**SECURITHERM, retracting hand spray H. 105mm**
Sequential thermostatic mixer with swivelling spout

- Perfectly suited to babies’ baths.
- Anti-scalding failsafe: immediate shut-off if cold water supply fails.
- Securitouch thermal insulation prevents burns.
- No risk of cross flow between hot and cold water.
- No non-return valves on the inlets.
- Swivelling spout H. 105mm L. 200mm.
- Retracting hand spray with 2 jet options: flow straightener/rain effect.
- Scale-resistant sequential thermostatic cartridge.
- Temperature control: cold water up to 40°C.
- Maximum temperature limiter set at 40°C.
- Body with smooth interior.
- Flow rate regulated at 3 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). Specific counterweight.
- PEX flexibles 3/8”.
- Fixing reinforced by 2 stainless steel rods.

**SECURITHERM, retracting hand spray H. 200mm**
Sequential thermostatic mixer set and column

- Perfectly suited to babies’ baths.
- Anti-scalding failsafe: immediate shut-off if cold water supply fails.
- Securitouch thermal insulation prevents burns.
- No risk of cross flow between hot and cold water.
- No non-return valves on the inlets.
- Swivelling column H. 200mm L. 220mm.
- Retracting hand spray with 2 jet options: flow straightener/rain effect.
- Scale-resistant sequential thermostatic 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 7 lpm.
- No manual contact thanks to Hygiene control lever L. 100mm.
- Mixed water brass outlet L. 160mm.
- BIOSAFE flexible shower hose reduces bacterial proliferation: transparent polyurethane, smooth interior and exterior, low water volume (internal Ø 6mm). Specific counterweight.
- PEX flexibles 3/8”.
- Fixing reinforced by 2 stainless steel rods.

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

| Option: wastes (see page 91) | H9613 | H9642 | 1316 |

**SECURITHERM deck-mounted sequential thermostatic mixers / DELABIE**

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

Option: wastes (see page 91), BIOFIL hand spray with integrated filter (see page 27)
DELABIE / SECURITHERM sequential thermostatic mixers

- **SECURITHERM** anti-scalding failsafe: immediate shut-off if cold water supply fails.
- **Securitouch** thermal insulation prevents burns.
- **BIOSAFE** infection control: body and spout with smooth interiors, fewer components in contact with water.
- **Removable spout**: the stainless steel spout can be changed regularly or replaced by a BIOFIL filter spout or disposable spout.
- **No non-return valves on the inlets**: no risk of cross flow between HW and CW, reduced risk of bacterial proliferation.

### 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.
- No risk of cross flow between hot and cold water.
- Supplied with 2 removable BIOCLIP stainless steel spouts L. 135mm Ø 28mm for continuous use during cleaning and disinfection. Can be replaced with a BIOFIL filter spout or a disposable Hostaform® spout.
- 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 L. 146mm.
- Supplied with 2 in-line STOP/CHECK wall connectors M½” M¾” (see page 92).

#### Wall-mounted SECURITHERM sink mixer with BIOCLIP stainless steel spout

<table>
<thead>
<tr>
<th>Option</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>150mm centre</td>
<td>H9611P</td>
</tr>
<tr>
<td>200mm centre</td>
<td>H9614P</td>
</tr>
<tr>
<td>Option: wastes (see page 91)</td>
<td></td>
</tr>
</tbody>
</table>

#### Pillar mounted SECURITHERM sink mixer

- M½” pillar mounted.
- **Anti-scalding failsafe**: immediate shut-off if cold water supply fails.
- **Securitouch** thermal insulation prevents burns.
- No risk of cross flow between hot and cold water.
- Supplied with 2 removable BIOCLIP stainless steel spouts L. 135mm Ø 28mm for continuous use during cleaning and disinfection. Can be replaced with a BIOFIL filter spout or a disposable Hostaform® spout.
- 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 L. 146mm.
- Supplied with 2 removable BIOCLIP stainless steel spouts L. 135mm Ø 28mm for continuous use during cleaning and disinfection. Can be replaced with a BIOFIL filter spout or a disposable Hostaform® spout.
- 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 L. 146mm.

#### Wall-mounted SECURITHERM sink mixer with BIOCLIP disposable spout

<table>
<thead>
<tr>
<th>Option</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>With STOP/CHECK connectors</td>
<td>H9610</td>
</tr>
<tr>
<td>With standard connectors</td>
<td>H910S</td>
</tr>
<tr>
<td>Option: wastes (see page 91)</td>
<td></td>
</tr>
</tbody>
</table>

#### Wall-mounted SECURITHERM sink mixer with BIOCLIP stainless steel spout

<table>
<thead>
<tr>
<th>Option</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Option: wastes (see page 91)</td>
<td>H9615</td>
</tr>
</tbody>
</table>
**SECURITHERM** deck-mounted dual control thermostatic mixers / **DELABIE**

- **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
- **Ergonomics**: controls are easy to grip, ideal for hospital patients, children, the elderly or disabled people

---

## SECURITHERM for basins H. 205mm L. 150mm
Dual control thermostatic mixer

- Anti-scalding failsafe: immediate shut-off if cold water supply fails.
- Swivelling spout H. 205mm L. 150mm with smooth interior.
- BIOSAFE hygienic spout outlet, suitable for fitting a BIOFIL terminal filter (see page 26).
- Scale-resistant thermostat 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 1¾” in brass.
- PEX flexibles F⅜” with filters and non-return valves.
- Fixing reinforced by 2 stainless steel rods.

---

## SECURITHERM sinks/troughs H. 225mm L. 190mm
Dual control thermostatic mixer

- Anti-scalding failsafe: immediate shut-off if cold water supply fails.
- Swivelling spout H. 225mm L. 190mm with smooth interior.
- Hygienic flow straightener, suitable for fitting a BIOFIL terminal filter (see page 26).
- Scale-resistant thermostat 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 limited to 9 lpm at 3 bar.
- ERGO control knobs.
- PEX flexibles F⅜” with filters and non-return valves.
- Fixing reinforced by 2 stainless steel rods.
SECURITHERM: OPTIMISED ANTI-SCALDING SAFETY

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’s 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.

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.

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

<table>
<thead>
<tr>
<th>Standard mechanical mixers</th>
<th>HW: 3 bar</th>
<th>HW: 3 bar</th>
<th>HW: 2 bar</th>
</tr>
</thead>
<tbody>
<tr>
<td>CW: 3 bar</td>
<td>64°C</td>
<td>CW: 2 bar</td>
<td>CW: 3 bar</td>
</tr>
<tr>
<td>DELABIE’s mechanical EP mixers refs 2820TEP/2520EP/2565T1EP...</td>
<td>38°C</td>
<td>37.7°C</td>
<td>38.2°C</td>
</tr>
</tbody>
</table>

Starting calibration = 38°C

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 either 4 or 5 lpm
The majority of SECURITHERM EP basin mixers are fitted with flow rate limiters set at 4 or 5 lpm at 3 bar. As such water consumption is significantly reduced while ensuring maximum user comfort.

For more information see page 15.
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. They allow easy cleaning and disinfection, both preventative and curative. 
*For more information see page 10.*

**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 the majority of DELABIE’s mixers/taps are completely smooth, reducing biofilm attachment and making it easier to treat. 
*For more information see page 10.*

**Low volume of standing water in the body**
Some of DELABIE’s 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-mounted mixers with high spouts and wall-mounted mixers 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, 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 pages 96-97.*

**PEX flexible supply hoses**
These flexible hoses will withstand thermal and chemical shocks undertaken in healthcare facilities for preventative or curative treatment against the development of bacteria. 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.
2620EP: MULTIPLE DEMANDS, A UNIQUE CONCEPT
The mixer that meets all the patients' needs

SECURITHERM: ANTI-SCALDING SAFETY
As with all SECURITHERM EP mixers, the 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 60.

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 internal design ensures the **absence of hot spots**.

Thermal shock safety
The 2620EP is one of the only mechanical mixers 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. For more information see page 13.

WATER AND ENERGY SAVINGS OF APPROXIMATELY 60%
Flow rate limited to 4 lpm
Fitted with flow rate limiters at 4 lpm at 3 bar, mixers from 2620EP BIOSAFE range enable water consumption to be considerably reduced whilst still ensuring optimal user comfort. For more information see page 15.

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 by a minimum.

Comparison of standing water volumes in mixer bodies:

<table>
<thead>
<tr>
<th>Conventional mixer</th>
<th>2620EP mixer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water volume is significantly reduced</td>
<td></td>
</tr>
</tbody>
</table>

Smaller water passages and the absence of a spout mean that the volume of water in the body of the 2620EP mixer is significantly reduced and, as such, bacterial proliferation is also reduced.

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 Hostafom®, its smooth internal surface provides nowhere for impurities or scale to adhere, reducing the emergence and spread of bacteria and germs in damp conditions. For more information see pages 96-97.

No contact with chrome, nickel or lead
The internal design of the 2620EP mixer prevents the water from coming into contact with chrome, nickel or lead. Therefore, the water delivered is safer and purer.

AND ALSO...
Easy to install
DELABIE has made installation easy by fitting the 2620EP mixer range with copper tails or flexible hoses with rotating unions, preventing any twisting. They can be removed if necessary.
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

ROTATING PEX FLEXIBLES
Easy to install

MAXIMUM TEMPERATURE LIMITER
Anti-scalding safety

BIOSAFE OUTLET INTEGRATED INTO THE MIXER BODY
Maximum hygiene

CARTRIDGE AND BODY WITH VERY LOW WATER VOLUME
Infection control

Displayed model: SECURITHERM EP basin mixer (ref. 2621EP)
PMR MINERALCAST washbasin 132306 - SECURITHERM EP BIOSAFE basin mixer 2621EP - Tilting mirror 510201N
SECURITHERM deck-mounted mixers with Pressure-balancing / DELABIE

- 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 for basins H. 95mm or MINI H. 55mm
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.
- Body with very low water volume (reduces bacterial development).
- Flow rate limited to 4 lpm at 3 bar.
- Solid control lever.
- Rotating PEX flexibles F⅜” or copper tails with filters and non-return valves.
- Fixing reinforced by 2 stainless steel rods.

Also available with conventional cartridge (see page 75)

SECURITHERM EP BIOSAFE basin mixer
H. 95mm L. 110mm with PEX flexibles
With ergonomic pop-up waste ⅜” in brass 2620EP
Without pop-up waste 2621EP

H. 55mm L. 80mm with PEX flexibles
With ergonomic pop-up waste ⅜” in polypropylene 2620MINIEP
Without pop-up waste 2621MINIEP

H. 95mm L. 110mm with copper tails
With ergonomic pop-up waste ⅜” in brass 26206EP
Without pop-up waste 26216EP

H. 55mm L. 80mm with copper tails
With ergonomic pop-up waste ⅜” in polypropylene 26206MINIEP
Without pop-up waste 26216MINIEP

Option: wastes for models without pop-up wastes (see page 91)
* German Design Award Special 2017 awarded to the 2621EP model
DELABIE / SECURITHERM deck-mounted mixers with Pressure-balancing

- 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 water, reduces bacterial development
- Water savings: 45%

SECURITHERM EP BIOCLIP for basins H. 85mm
Removable pressure-balancing mixer, smooth interior

- Can be removed entirely for cleaning/disinfection (see page 78)
- 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.
- Body and spout with smooth interiors and low water volume (reduces bacterial development).
- Flow rate limited to 5 lpm at 3 bar.
- PEX flexibles F3/8” with filters and non-return valves.
- Fixing reinforced by 2 stainless steel rods.

Also available with conventional cartridge (see page 76)

SECURITHERM EP for basins 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.
- Body and spout with smooth interiors and low water volume (reduces bacterial development).
- Flow rate limited to 5 lpm at 3 bar.
- PEX flexibles F3/8” with filters and non-return valves.
- Fixing reinforced by 2 stainless steel rods.

Also available with conventional cartridge (see page 76)

SECURITHERM EP BIOCLIP basin mixer H. 85mm L. 120mm
Solid control lever, with stopcocks
With ergonomic pop-up waste 1¼” in brass 2820TEP
Without pop-up waste 2821TEP

Solid control lever, without stopcocks
With ergonomic pop-up waste 1¼” in brass 28201TEP
Without pop-up waste 28211TEP

Hygiene control lever L. 150mm, with stopcocks
With ergonomic pop-up waste 1¼” in brass 2820LEP
Without pop-up waste 2821LEP

Hygiene control lever L. 150mm, without stopcocks
With ergonomic pop-up waste 1¼” in brass 28201LEP
Without pop-up waste 28211LEP

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

SECURITHERM EP basin mixer H. 85mm L. 120mm
Solid control lever
With ergonomic pop-up waste 1¼” in brass 2720TEP
Without pop-up waste 2721TEP

Hygiene control lever L. 150mm
With ergonomic pop-up waste 1¼” in brass 2720LEP
Without pop-up waste 2721LEP

Options: wastes for models without pop-up wastes (see page 91)
Copper tails (see page 93)
SECURITHERM deck-mounted mixers with Pressure-balancing / DELABIE

**SECURITHERM EP** anti-scaling safety: maximum temperature limiter, HW flow rate is reduced if CW supply fails

**BIOSAFE**: fewer components in contact with water, reduces bacterial development

---

**SECURITHERM EP for basins H. 85mm**

Pressure-balancing mixer

- Anti-scaling 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 ⁷⁄₈” with filters and non-return valves.
- Fixing reinforced by 2 stainless steel rods.

Also available with conventional cartridge (see page 77)

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**SECURITHERM EP basins/troughs H. 160 - 300mm**

Pressure-balancing mixer, smooth interior

- Anti-scaling safety: HW flow rate is reduced if CW supply fails.
- High fixed spout H. 160 - 300mm, L. 160mm with hygienic flow straightener suitable for fitting a BIOFIL terminal filter (see page 26).
- Ø 40mm pressure-balancing ceramic cartridge.
- Pre-set maximum temperature limiter.
- Body and spout with smooth interiors and low water volume (reduces bacterial development).
- Flow rate limited to 9 lpm at 3 bar.
- No manual contact thanks to Hygiene control lever L. 215mm.
- PEX flexibles F ⁷⁄₈” with filters and non-return valves.
- Fixing reinforced by 2 stainless steel rods.

Also available with conventional cartridge (see page 81)

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

Sculptured control lever
- With ergonomic pop-up waste 1⅛” in brass 2520EP
- Without pop-up waste 2521EP

Solid control lever
- With ergonomic pop-up waste 1⅛” in brass 2520TEP
- Without pop-up waste 2521TEP

Hygiene control lever L. 150mm
- With ergonomic pop-up waste 1¼” in brass 2520LEP
- Without pop-up waste 2521LEP

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

---

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

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

Options: BIOFIL cartridge filters (see page 26), copper tails (see page 93)
- Wastes (see page 91)
DELABIE / SECURITHERM deck-mounted mixers with Pressure-balancing

- **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. 105mm
Pressure-balancing mixer with swivelling spout

- Perfectly suited to babies’ baths.
- 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 limited to 7 lpm at 3 bar.
- Mixed water brass outlet L. 105mm.
- BIOSAFE flexible shower hose reduces bacterial proliferation: transparent polyurethane, smooth interior and exterior, low water volume (interior Ø 6mm). Specific counterweight.
- PEX flexibles F ⅜" with filters and non-return valves.
- Fixing reinforced by 2 stainless steel rods.

Also available with conventional cartridge (see page 82)

### SECURITHERM EP, retracting hand spray H. 200mm
Pressure-balancing mixer set and column

- Perfectly suited to babies’ baths.
- 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 limited to 7 lpm at 3 bar.
- Sculptured control lever.
- Mixed water brass outlet L. 160mm.
- BIOSAFE flexible shower hose reduces bacterial proliferation: transparent polyurethane, smooth interior and exterior, low water volume (interior Ø 6mm). Specific counterweight.
- PEX flexibles F ⅜" with filters and non-return valves.
- Fixing reinforced by 2 stainless steel rods.

Also available with conventional cartridge (see page 82)

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

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid control lever</td>
<td>2211EP</td>
</tr>
<tr>
<td>Hygiene control lever</td>
<td>2211LEP</td>
</tr>
</tbody>
</table>

**Options:** wastes (see page 91), BIOFIL hand spray filters (see page 27)

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

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixer and column</td>
<td>2599EP</td>
</tr>
<tr>
<td>Mixer only</td>
<td>2542EP</td>
</tr>
<tr>
<td>Column only</td>
<td>1316</td>
</tr>
</tbody>
</table>

**Options:** wastes (see page 91), BIOFIL hand spray filters (see page 27)

68 Thermostatic/EP mixers for basins/sinks
SECURITHERM wall-mounted mixers with Pressure-balancing / DELABIE

- **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 water, reduces bacterial development
- **Ergonomics**: sculptured or Hygiene control levers are easy to grip

**SECURITHERM EP wall-mounted Securitouch**
Pressure-balancing mixer, in-line connectors

• **Anti-scalding safety**: HW flow rate is reduced if CW supply fails.
• Securitouch thermal insulation prevents burns.
• Flat, fixed under spout with hygienic flow straightener suitable for fitting a BIOFIL terminal filter (see page 26).
• Ø 40mm pressure-balancing ceramic cartridge.
• Pre-set maximum temperature limiter.
• Body and spout with smooth interiors and low water volume (reduces bacterial development).
• Flow rate regulated at 5 lpm.
• No manual contact thanks to Hygiene control lever L. 150mm.
• Supplied with in-line STOP/CHECK connectors M½" M¾" (see page 92).

Also available with conventional cartridge (see page 86)

**SECURITHERM EP wall-mounted Securitouch**
Pressure-balancing mixer, offset connectors

• **Anti-scalding safety**: HW flow rate is reduced if CW supply fails.
• Securitouch thermal insulation prevents burns.
• Flat, swivelling under spout with hygienic flow straightener suitable for fitting a BIOFIL terminal filter (see page 26).
• Ø 40mm pressure-balancing ceramic cartridge.
• Pre-set maximum temperature limiter.
• Body and spout with smooth interiors and low water volume (reduces bacterial development).
• Flow rate regulated at 5 lpm.
• Supplied with 2 offset wall connectors M½" M¾" (see page 92).

Also available with conventional cartridge (see page 86)

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**SECURITHERM EP wall-mounted Securitouch for basins with in-line connectors**

| Spout L. 200mm, 150mm centres | 2445LEPUK |
| Spout L. 150mm, 150mm centres | 2446LEPUK |
| Spout L. 150mm, 200mm centres | 2447LEPUK |

**Options**: BIOFIL cartridge filters (see page 26), wastes (see page 91)

**SECURITHERM EP wall-mounted Securitouch for basins with offset connectors**

| Sculptured control lever | STOP/CHECK connectors, spout L. 200mm | 2445EP |
| Standard connectors, spout L. 200mm | 2445EPS |
| STOP/CHECK connectors, spout L. 150mm | 2446EP |
| Standard connectors, spout L. 150mm | 2446EPS |
| Hygiene control lever L. 150mm | STOP/CHECK connectors, spout L. 200mm | 2445LEP |
| Standard connectors, spout L. 200mm | 2445LEPS |
| STOP/CHECK connectors, spout L. 150mm | 2446LEP |
| Standard connectors, spout L. 150mm | 2446LEPS |

**Options**: BIOFIL cartridge filters (see page 26), wastes (see page 91)
Mixers with ceramic cartridges for washbasins, sinks and troughs

DECK-MOUNTED MIXERS 75

MIXERS WITH RETRACTING HAND SPRAYS 82

WALL-MOUNTED MIXERS 85
**BIOSAFE: INFECTION CONTROL**

**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 mixer**
  Mixers and taps that can be completely removed from their bases in order to carry out curative or preventative actions in healthcare establishments. *For more information see page 10.*

**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 the majority of DELABIE's mixers/taps are completely smooth, reducing biofilm attachment and making it easier to treat. *For more information see page 10.*

**Low volume of standing water in the body**
Some DELABIE's 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, 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 pages 96-97.*

**ANTI-SCALDING SAFETY**

**Maximum temperature limiter**
All DELABIE's 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, the majority of DELABIE's mixers are fitted with an exclusive solution which effectively reduces temperature variations if there are pressure variations in the system.
However, these mixers do not have the precision of SECURITHERM thermostatic or EP mixers and they are not fitted with an anti-scalding safety (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’s 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**
The majority of DELABIE’s mechanical basin mixers are fitted with a flow rate limiter set at 5 lpm at 3 bar. As such water consumption is significantly reduced while ensuring optimal user comfort. *For more information see page 15.*
MECHANICAL BASINS/SINKS

- **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

Displayed model: BIOCLIP basin mixer (ref. 2821T)
2620: MULTIPLE DEMANDS, A UNIQUE CONCEPT
The mixer that meets all the patients' needs

BIOSAFE: INFECTION CONTROL

The 2620 mixer range 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.

<table>
<thead>
<tr>
<th>Conventional mixer</th>
<th>2620 mixer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water volume</td>
<td>is significantly reduced</td>
</tr>
</tbody>
</table>

Smaller water passages and the absence of a spout mean that the volume of water in the body of the 2620 mixer is significantly reduced and, as such, bacterial proliferation is also reduced.

**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.

For more information see pages 96-97.

**No contact with chrome, nickel or lead**
The internal design of the 2620 mixer prevents the water from coming into contact with chrome, nickel or lead. Therefore, the water delivered is safer and purer.

**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.

ANTI-SCALDING SAFETY

As with all DELABIE’s mechanical mixers, the 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 internal design ensures the absence of hot spots.

**Thermal shock safety**
The 2620 is one of the only mechanical mixers 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.

For more information see page 13.

**WATER AND ENERGY SAVINGS OF 45%**

Flow rate regulated at 5 lpm
Fitted with a flow rate regulator at 5 lpm, mixers from the 2620 BIOSAFE range enable water consumption to be considerably reduced whilst still ensuring optimal user comfort.

For more information see page 15.

**AND ALSO...**

**Easy to install**
DELABIE has made installation easy by fitting the 2620 mixer range with flexible hoses or copper tails with rotating unions, preventing any twisting. They can be removed if necessary.
Deck-mounted mixers with ceramic cartridges / DELABIE

- 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: 45%

**BIOSAFE for basins H. 95mm or MINI H. 55mm**
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 regulated at 5 lpm.
- Solid control lever.
- Rotating PEX flexibles F½" or copper tails.
- Fixing reinforced via 2 stainless steel rods.

Also available with pressure-balancing cartridge (see page 65)

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<table>
<thead>
<tr>
<th>BIOSAFE basin mixer</th>
<th>H. 95mm L. 110mm with PEX flexibles</th>
<th>H. 55mm L. 80mm with PEX flexibles</th>
</tr>
</thead>
<tbody>
<tr>
<td>With ergonomic pop-up waste 1¼&quot; in brass</td>
<td>2620</td>
<td>2620MINI</td>
</tr>
<tr>
<td>Without pop-up waste</td>
<td>2621</td>
<td>2621MINI</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>H. 95mm L. 110mm with copper tails</th>
<th>H. 55mm L. 80mm with copper tails</th>
</tr>
</thead>
<tbody>
<tr>
<td>With ergonomic pop-up waste 1¼&quot; in brass</td>
<td>26206</td>
</tr>
<tr>
<td>Without pop-up waste</td>
<td>26216</td>
</tr>
</tbody>
</table>

**Option**: wastes for models without pop-up wastes (see page 91)
DELABIE / Deck-mounted mixers with ceramic cartridges

- BIOSAFE infection control: body and spout with smooth interiors and low water volume
- BIOSAFE: fewer components in contact with water, reduces bacterial development
- Anti-scaling 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 18).
- 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 volume (reduces bacterial development).
- Flow rate limited to 5 lpm at 3 bar.
- PEX flexibles Fl¼".
- Fixing reinforced by 2 stainless steel rods.

Also available with pressure-balancing cartridge (see page 66)

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**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 volume (reduces bacterial development).
- Flow rate limited to 5 lpm at 3 bar.
- PEX flexibles Fl¼".
- Fixing reinforced by 2 stainless steel rods.

Also available with pressure-balancing cartridge (see page 66)
• Anti-scaling 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 ⅜”.
- Fixing reinforced by 2 stainless steel rods.

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

Basin mixer H. 60mm
Mechanical mixer

- Spout H. 60mm L. 100mm with hygienic flow straightener.
- Ø 35mm ceramic cartridge.
- Pre-set maximum temperature limiter.
- Flow rate regulated at 5 lpm.
- PEX flexibles F ⅜”.
- Reinforced fixing.

<table>
<thead>
<tr>
<th>Basin mixer H. 85mm L. 135mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sculptured control lever</td>
</tr>
<tr>
<td>With ergonomic pop-up waste, 1¼” in brass</td>
</tr>
<tr>
<td>Without pop-up waste</td>
</tr>
<tr>
<td>Solid control lever</td>
</tr>
<tr>
<td>With ergonomic pop-up waste, 1¼” in brass</td>
</tr>
<tr>
<td>Without pop-up waste</td>
</tr>
<tr>
<td>Hygiene control lever L. 150mm</td>
</tr>
<tr>
<td>With ergonomic pop-up waste, 1¼” in brass</td>
</tr>
<tr>
<td>Without pop-up waste</td>
</tr>
<tr>
<td>Options: wastes for models without pop-up wastes (see page 91)</td>
</tr>
<tr>
<td>Copper tails (see page 93)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Basin mixer H. 60mm L. 100mm</th>
</tr>
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<tbody>
<tr>
<td>Sculptured control lever</td>
</tr>
<tr>
<td>With ergonomic pop-up waste 1¼” in polypropylene</td>
</tr>
<tr>
<td>Without pop-up waste</td>
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<tr>
<td>Hygiene control lever L. 120mm</td>
</tr>
<tr>
<td>With ergonomic pop-up waste 1¼” in polypropylene</td>
</tr>
<tr>
<td>Without pop-up waste</td>
</tr>
<tr>
<td>Options: wastes for models without pop-up wastes (see page 91)</td>
</tr>
<tr>
<td>Copper tails (see page 93)</td>
</tr>
</tbody>
</table>
DELABIE / Deck-mounted mixers with ceramic cartridges

- 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. 100mm
Mechanical mixer, smooth interior
- Swivelling spout H. 100mm 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 Ø 3/8”.
- Fixing reinforced by 2 stainless steel rods.

### Sink or trough mixer H. 155mm
Mechanical mixer, smooth interior
- Swivelling spout H. 155mm 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 Ø 3/8”.
- Fixing reinforced by 2 stainless steel rods.

### Sink or trough mixer H. 155mm
Mechanical mixer, smooth interior
- Swivelling spout H. 155mm L. 225mm 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 Ø 3/8”.
- Fixing reinforced by 2 stainless steel rods.

---

**Basin mixer H. 100mm 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 92)

**Sink/trough mixer H. 145mm L. 225mm**
- Sculptured control lever 2210
- Hygiene control lever L. 200mm 2210L
- **Options:** wastes (see page 91)
  - Copper tails (see page 92)

**Sink/trough mixer H. 155mm 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 92)
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 26).
- Ø 35mm ceramic cartridge.
- Spout with smooth interior.
- Flow rate limited to 5 lpm at 3 bar.
- Slimline control lever.
- PEX flexibles F⅜".
- Fixing reinforced by 2 stainless steel rods.

Sink or trough mixer H. 220mm L. 200mm
Mechanical mixer, spout with smooth interior

- Swivelling, tubular spout Ø 22mm, H. 220mm L. 200mm with hygienic flow straightener (see page 97).
- High spout suitable for fitting a BIOFIL terminal filter (see page 26).
- Ø 35mm ceramic cartridge.
- Spout with smooth interior.
- Flow rate limited to 9 lpm at 3 bar.
- Slimline control lever.
- PEX flexibles F⅜".
- Fixing reinforced by 2 stainless steel rods.

<table>
<thead>
<tr>
<th>Basin mixer H. 200mm L. 150mm</th>
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<tbody>
<tr>
<td>With ergonomic pop-up waste, 1¼&quot; in brass</td>
</tr>
<tr>
<td>Without pop-up waste</td>
</tr>
<tr>
<td>Options: BIOFIL cartridge filters (see page 26), wastes for models without pop-up wastes (see page 91), copper tails (see page 93)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sink or trough mixer H. 220mm L. 200mm</th>
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<tbody>
<tr>
<td>Options: BIOFIL cartridge filters (see page 26), wastes (see page 91) Copper tails (see page 93)</td>
</tr>
</tbody>
</table>

Mechanical basin/sink controls 79
DELABIE / Deck-mounted mixers with ceramic cartridges and high spouts

- BIOSAFE infection control: body and spout with smooth interiors
- Removable spout: area susceptible to bacterial development, mixer spouts should be cleaned regularly.
- Anti-scalding safety: maximum temperature limiter

Mixer for basins/sinks with swivelling BIOCLIP spout
Mechanical mixer with removable spout, smooth interior

- High, removable swivelling spout with star-shaped flow straightener.
- Supplied with either 2 removable BIOCLIP stainless steel spouts L. 180mm or 1 disposable Hostaform® spout L. 175mm.
  Can be replaced with a BIOFIL filter 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.
- No manual contact thanks to Hygiene control lever L. 215mm.
- PEX flexibles F ⅜”.
- Fixing reinforced by 2 stainless steel rods.

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 26).

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.

15 removable, disposable spouts L. 125mm, Ø 22mm 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 25).

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

Mixer for basins/sinks with high swivelling BIOCLIP spout

| Spout H. 160mm | Stainless steel spout L. 180mm 2870T1 | Disposable spout L. 175mm 2871T1 |
| Spout H. 300mm | Stainless steel spout L. 180mm 2870T3 | Disposable spout L. 175mm 2871T3 |

Options: BIOFIL filter spouts (see opposite), wastes (see page 91), copper tails (see page 93)
Basin mixer with high spout H. 160mm
Mechanical mixer, smooth interior

- High spout H. 160mm with hygienic flow straightener suitable for fitting a BIOFIL terminal filter (see page 26).
- 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.
- Chrome-plated body, base and spout.
- No manual contact thanks to Hygiene control lever L. 215mm.
- PEX flexibles \( \frac{3}{8} \)".
- Fixing reinforced by 2 stainless steel rods.

2565T1 also available with pressure-balancing cartridge (see page 67)

Mixer for sinks/troughs with high spout H. 300mm
Mechanical mixer, smooth interior

- High spout H. 300mm with hygienic flow straightener suitable for fitting a BIOFIL terminal filter (see page 26).
- Ø 40mm ceramic cartridge.
- Pre-set maximum temperature limiter.
- Body and spout with smooth interiors (reduces bacterial development).
- Flow rate limited to 9 lpm at 3 bar.
- Chrome-plated body, base and spout.
- No manual contact thanks to Hygiene control lever L. 215mm.
- PEX flexibles \( \frac{3}{8} \)".
- Fixing reinforced by 2 stainless steel rods.

2565T3 also available with pressure-balancing cartridge (see page 67)
DELABIE / Deck-mounted mixers with ceramic cartridges

- 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
- Ergonomics: control levers are easy to grip

Basin 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 limited to 7 lpm at 3 bar.
- Mixed water brass outlet L. 105mm.
- BIOSAFE flexible shower hose reduces bacterial proliferation: transparent polyurethane, smooth interior and exterior, low water volume (interior Ø 6mm). Specific counterweight.
- PEX flexibles Ф ⅜”.
- Fixing reinforced by 2 stainless steel rods.

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

Basin 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 5 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 Ф ⅜”.
- Fixing reinforced.

Basin/sink 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 limited to 7 lpm at 3 bar.
- Sculptured control lever.
- Mixed water brass outlet L. 160mm.
- BIOSAFE flexible shower hose reduces bacterial proliferation: transparent polyurethane, smooth interior and exterior, low water volume (interior Ø 6mm). Specific counterweight.
- PEX flexibles Ф ⅜”.
- Fixing reinforced by 2 stainless steel rods.

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

<table>
<thead>
<tr>
<th>Mixer with retracting hand spray H. 105mm L. 200mm</th>
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<tbody>
<tr>
<td>Solid control lever 2211</td>
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<tr>
<td>Hygiene control lever L. 175mm 2211L</td>
</tr>
<tr>
<td>Options: wastes (see page 91), BIOFIL hand spray filters (see page 27), copper tails (see page 93)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mixer with retracting hand spray H. 210mm L. 190mm</th>
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</thead>
<tbody>
<tr>
<td>Mixer 2597</td>
</tr>
<tr>
<td>Options: wastes (see page 91), flexible hose for hand sprays (see page 151), copper tails (see page 93)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Controls with retracting hand spray H. 200mm L. 220mm</th>
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</thead>
<tbody>
<tr>
<td>Mixer and column 2599</td>
</tr>
<tr>
<td>Mixer only 2542</td>
</tr>
<tr>
<td>Column only 1316</td>
</tr>
<tr>
<td>Options: wastes (see page 91), BIOFIL hand spray filters (see page 27), copper tails (see page 93)</td>
</tr>
</tbody>
</table>
MECHANICAL BASINS/SINKS

- **ERGONOMIC, SOLID CONTROL LEVER**
  - Easy to grip

- **MAXIMUM TEMPERATURE LIMITER**
  - Anti-scalding safety

- **CARTRIDGE AND FLEXIBLE HOSE WITH LOW WATER VOLUME**
  - Infection control

- **RETRACTING HAND SPRAY 2 JET OPTIONS**
  - Comfortable to use

- **FIXINGS REINFORCED**
  - Robust

- **BIOSAFE TRANSPARENT FLEXIBLE HOSE WITH SMOOTH INTERIOR**
  - Infection control

- **SWIVELLING SPOUT**
  - Comfortable to use

Displayed model: Basin mixer with retracting hand spray (ref. 2211)
Sequential Wall-Mounted Mechanical Mixer

Sequential Open and Closing on Cold Water

Improved ergonomics and functionality
The latest generation of wall-mounted mechanical mixers with ceramic cartridges is sequential: opening and temperature adjustment are controlled with the same lateral movement over a 70° to 90° turning range depending on the chosen model.

Opens and closes on cold water
The new sequential mechanical wall-mounted mixers open and close on 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).

Anti-Scalding Safety

Maximum temperature limiter
These 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
The new sequential wall-mounted 2640 allows 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. For more information see page 13.

Securitouch Technology
The body of these new mixers has a thermal insulation, reducing any risk of burns. Hot water flows from the inlets to the cartridge inside narrow copper tubes and is, therefore, never in contact with the walls of the mixer.

Comfort and Ergonomics

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

Ergonomic controls
The Hygiene control lever enables control without manual contact using the wrist, the forearm or the elbow.

Swivelling or fixed spout
Length and type of spout suitable for different uses in hospital settings (hand washing, rinsing equipment, filling buckets...).

Intuitive identification
Clear visual identification of Hot and Cold Water on the lever.

45% Water and Energy Savings

Flow rate 4 or 5 lpm
These wall-mounted mixers enable a significant reduction in water consumption whilst ensuring optimal user comfort. For more information see page 15.

BiOSAFE: Infection Control

Low volume of standing water in the body
DELABIE’s new sequential 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.

No contact with chrome, nickel or lead
The internal design of the 2640 mixer prevents the water from coming into contact with chrome, nickel or lead. Therefore, the water delivered is safer and purer.
Sequential wall-mounted mixers with ceramic cartridges / DELABIE

- BIOSAFE: infection control: low volume of standing water in the body
- BIOSAFE: fewer components in contact with water, reduces bacterial development
- Anti-scaping safety: sequential open and closing on cold water, pre-set maximum temperature limiter
- Ergonomics: hygiene control lever is easy to grip

Wall-mounted Securitouch mixer for basins
Sequential mechanical mixer with tubes, smooth interior

- Sequential 70°: open and closing on cold water.
- Swivelling under spout with BIOSAFE hygienic outlet suitable for fitting a BIOFIL terminal filter (see page 26).
- Spout can be fixed in place easily.
- Securitouch thermal insulation prevents burns.
- Ø 35mm ceramic cartridge.
- Pre-set maximum temperature limiter.
- Body and spout with tubes with smooth interiors and very low water volume (reduces bacterial development).
- Thermal shocks are possible without removing the control lever or shutting off the CW supply.
- Flow rate 4 lpm at 3 bar.
- Hygiene control lever L. 200mm.
- Supplied with 2 offset wall connecters M½” M¾” (see page 92).

Wall-mounted Securitouch mixer for basins
Sequential mechanical mixer, smooth interior

- Sequential 90°: open and closing on cold water.
- Flat, swivelling under spout L. 200mm with hygienic flow straightener suitable for fitting a BIOFIL terminal filter (see page 26).
- Securitouch thermal insulation prevents burns.
- Ø 35mm ceramic cartridge.
- Pre-set maximum temperature limiter.
- Body and spout with smooth interiors and low water volume (reduces bacterial development).
- Flow rate limited to 5 lpm at 3 bar.
- Hygiene control lever L. 200mm.
- Supplied with 2 wall connecters M½” M¾” (see page 92).

Provisional availability 1st half 2020.
Please contact sales office to check availability.

Securitouch sequential mechanical wall-mounted basin mixer
Swivelling/fixed spout L. 120mm
STOP/CHECK connectors 2640
Standard connecters 2640S

Swivelling/fixed spout L. 200mm
STOP/CHECK connectors 2641
Standard connecters 2641S
Options: BIOFIL cartridge filters (see page 26), wastes (see page 91)
Securitouch wall-mounted mixer for basins
Mechanical mixer with thermal insulation, spout L. 150mm

- Flat, swivelling under spout L. 150mm with hygienic flow straightener suitable for fitting a BIOFIL terminal filter (see page 26).
- 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 regulated at 5 lpm.
- Supplied with 2 wall connectors M½” M¾” (see page 92).

Also available with pressure-balancing cartridge (see page 69)

Securitouch wall-mounted mixer for basins
Mechanical mixer with thermal insulation, spout L. 200mm

- Flat, swivelling under spout L. 200mm with hygienic flow straightener suitable for fitting a BIOFIL terminal filter (see page 26).
- 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 regulated at 5 lpm.
- Supplied with 2 offset wall connectors M½” M¾” (see page 92).

Also available with pressure-balancing cartridge (see page 69)

Securitouch wall-mounted basin mixer with swivelling spout L. 150mm
Sculptured control lever
Offset STOP/CHECK connectors, 150mm centres 2446
Offset standard connectors, 150mm centres 2446S

Hygiene control lever L. 150mm
In-line STOP/CHECK connectors, 200mm centres 2447LUK
Offset STOP/CHECK connectors, 150mm centres 2446L
Offset standard connectors, 150mm centres 2446LS

Options: BIOFIL cartridge filters (see page 26), wastes (see page 91)

Securitouch wall-mounted basin mixer with swivelling spout L. 200mm
Sculptured control lever
STOP/CHECK connectors 2445
Standard connectors 2445S

Hygiene control lever L. 150mm
STOP/CHECK connectors 2445L
Standard connectors 2445LS

Options: BIOFIL cartridge filters (see page 26), wastes (see page 91)
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.
• Supplied with 2 offset wall connectors M½" M¾" (see page 92).

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 M½" M¾" (see page 92).
Additional fittings for basins and sinks

**THERMOSTATIC MIXING VALVES**

**90**

**WASTES AND TRAPS**

**91**

**CONNECTORS**

**92**

**SOAP DISPENSERS**

**94**

**SPOUT OUTLETS**

**97**
DELABIE / Thermostatic mixing valves

- Anti-scalding failsafe: automatic shut-off if cold water supply fails
- Comfort: regulates temperature variations for a stable temperature at the point-of-use
- Installation: upstream of the taps and valves

**PREMIX NANO**
Thermostatic mixing valve with mixed water 34 - 60°C

- For 1 - 2 taps or 1 shower.
- Anti-scalding failsafe: automatic shut-off if cold or hot 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 COMPACT**
Thermostatic mixing valve with mixed water 30 - 60°C

- For 2 - 10 sanitary points-of-use (depending on the flow rate).
- Anti-scalding safety: automatic shut-off if cold or hot 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.

---

**PREMIX NANO**
Nickel-plated body, inlets F ⅜" and outlet M ⅜"
732012
Polished chrome body, inlets F ⅜" and outlet M ⅜"
732016
Nickel-plated body M ½", 15mm
732115
Polished chrome body M ½", 15mm
732116
Polished chrome body, HW inlet F ⅜", CW inlet M ⅜", MW outlet M ⅜
732216
Polished chrome body, HW inlet F ⅜", CW inlet M ⅜", MW outlet M ⅜ + connection kit ⅜"
732230

**M ½" for 2 - 7 taps**
- Nickel-plated body and blue control cap
  733015
- Chrome-plated body and control cap
  733016

**M ¾" for 2 - 10 taps**
- Nickel-plated body and blue control cap
  733020
- Chrome-plated body and control cap
  733021
**ON/OFF 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.

---

**HYGIÉNA waste**
With chrome-plated brass concave grid

- Hygienic washbasin waste, M1¼".
- Concave grid (no water retention).
- *Free flow, with no central screw* (avoids scale deposits and reduces bacterial development).
- Polished chrome-plated brass grid, chrome-plated ABS body.
- Long model: can be tightened between 1-45mm; *pre-scored waste* (snap off sections can be removed easily for models with overflow).
- Short model: can be tightened between 1-2mm; *for stainless steel washbasins*.
- Conforms to norm EN 274-1.

---

**Waste**
With stainless steel grid

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

---

**Waste with valve**

- Outflow M1¼".
- Chrome-plated brass.

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**Trap with horizontal outlet**

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

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**Tap hole cover**

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

### STOP/CHECK connectors
Wall-mounted connectors M½” M¾”

- Chrome-plated brass connectors Ø 65mm for wall-mounted mixers.
- M½” M¾”.
- Supplied in packs of 2.
- Ideal for hospitals.

Connectors include:

- **Manual escutcheon control:**
  - Stopcock position and/or purge.

- **Stopcocks** (STOP function):
  - Allow shut-off of the water supply so that the mixer can be easily removed for descaling, cleaning or maintenance.
  - Allow automatic anti-scaling safety to be checked on SECURITHERM thermostatic and EP pressure-balancing mixers.

- **Purge system** (CHECK function):
  - Allows non-return valves to be checked on the respective mixer (DELABIE patent).

### Offset standard connectors
Wall-mounted connectors M½” M¾”

- Offset standard connectors, 11mm centres, Ø 64mm, L. 50mm for wall-mounted mixers.
- M½” M¾”.
- Chrome-plated brass.
- Supplied in packs of 2.

### Offset standard connectors
Wall-mounted connectors M½” M¾”

- Offset chrome-plated standard connectors Ø 70mm for wall-mounted mixers.
- M½” M¾”.
- Chrome-plated brass.
- Supplied in packs of 2.

**STOP/CHECK connectors**

- Offset connectors, L. 62mm 855755.2P
- Inline connectors, L. 90mm 855755UK.2P

**Offset standard connectors**

- 11mm centres, L. 50mm 856127.2P
- 12mm centres, L. 60mm 856027.2P

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92 Basin/sink fittings
Fast-fix connectors
For 15mm connection

- Wall-mounted in-line connectors.
- Chrome-plated connectors Ø 70mm, L. 36mm for wall-mounted mixers.
- M¾”.
- Supplied in packs of 2.

Reinforced exposed connector
For M¾" stopcocks

- Reinforced chrome-plated brass exposed connector.
- Ø 14mm stud nut.
- M¾".
- Fixed by 2 screws (supplied).

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.

PEX flexible hoses F¾"
To supply mixers and taps

- PEX core, interior Ø 6mm, 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.

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.
- Supplied in packs of 2.

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.
**DELABIE / Soap dispensers**

### Electronic liquid soap dispenser
**Battery-operated**

- Vandal-resistant model with lock and standard DELABIE key.
- No manual contact: hands are automatically detected by infrared cell (detection distance can be adjusted).
- Bacteriostatic 304 stainless steel cover. One-piece hinged cover for easy maintenance and better hygiene.
- No waste pump dispenser: dispenses 0.8ml (can be adjusted up to 7 doses per activation).
- Option of operation in anti-clogging mode.
- Power supply: 6 AA -1.5V (DC9V) batteries supplied integrated in the soap dispenser body.
- Low battery indicator light.
- Tank with large opening: eases transfer of soap from large containers.
- Window allows soap level to be checked.
- Stainless steel thickness: 1mm.
- Capacity: 1 litre.
- For vegetable-based liquid soap with a maximum viscosity of 3,000 mPa.s.
- Compatible with hydroalcoholic gel.
- CE marked.

### Liquid soap dispenser
**With soft-touch operation**

- Vandal-resistant model with lock and standard DELABIE key.
- Bacteriostatic 304 stainless steel cover.
- 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.
- Tank with large opening: eases transfer of soap from large containers.
- Tank prevents long-term stagnation of soap.
- Window allows soap level to be checked.
- Stainless steel thickness: 1mm.
- Capacity: 0.5 or 1 litre.
- 0.5 litre model dimensions: 90 x 105 x 185mm.
- 1 litre model dimensions: 90 x 105 x 252mm.
- For vegetable-based liquid soap with a maximum viscosity of 3,000 mPa.s.
- Compatible with hydroalcoholic gel.

### Hypereco liquid soap dispenser
**ABS**

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

---

**Electronic liquid soap dispenser - 1 litre**

- Bright 304 stainless steel 512066P
- Satin 304 stainless steel 512066S
- White powder-coated 304 stainless steel 512066W

**Liquid soap dispenser - 0.5 litre**

- Bright 304 stainless steel 510583
- Satin 304 stainless steel 510586
- White powder-coated 304 stainless steel 510584

**Liquid soap dispenser - 1 litre**

- Bright 304 stainless steel 510580
- Satin 304 stainless steel 510582
- White powder-coated 304 stainless steel 510581

---

94 Basin/sink fittings
Soap dispensers / DELABIE

**Liquid soap dispenser**
Deck-mounted, straight spout

- 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).

<table>
<thead>
<tr>
<th>Soap dispenser with straight spout</th>
</tr>
</thead>
<tbody>
<tr>
<td>With 1 litre bottle 729008</td>
</tr>
<tr>
<td>With 0.5 litre bottle 729508</td>
</tr>
<tr>
<td>With flexible tube 1.20m for remote tank 729108</td>
</tr>
</tbody>
</table>

**Liquid soap dispenser**
Deck-mounted, curved spout

- 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).

<table>
<thead>
<tr>
<th>Soap dispenser with curved spout</th>
</tr>
</thead>
<tbody>
<tr>
<td>With 1 litre bottle 729012</td>
</tr>
<tr>
<td>With 0.5 litre bottle 729512</td>
</tr>
<tr>
<td>With flexible tube 1.20m for remote tank 729112</td>
</tr>
</tbody>
</table>

**Cross wall liquid soap dispenser**
Wall-mounted for cross wall installation

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

| Cross wall soap dispenser, for remote tank 729150 |
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.

Flow straightener

To reduce these risks, flow straighteners are highly recommended for spout outlets. All DELABIE’s 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’s 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’s 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**

- **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 or in packs of 50.

This BIOSAFE outlet can only be installed on a mixer or tap with a restricted flow rate (5 lpm maximum) to ensure a good flow with no splashing.

<table>
<thead>
<tr>
<th>BIOSAFE hygienic outlet</th>
<th>923024</th>
<th>923022</th>
</tr>
</thead>
<tbody>
<tr>
<td>M24/100 (1 piece)</td>
<td>923024</td>
<td></td>
</tr>
<tr>
<td>M24/100 (50 per pack)</td>
<td>923024.50P</td>
<td></td>
</tr>
<tr>
<td>F22/100 (1 piece)</td>
<td>923022</td>
<td></td>
</tr>
<tr>
<td>F22/100 (50 per pack)</td>
<td>923022.50P</td>
<td></td>
</tr>
</tbody>
</table>

**Hygienic flow straightener**

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

<table>
<thead>
<tr>
<th>Hygienic flow straightener</th>
<th>921024.2P</th>
<th>921022.2P</th>
</tr>
</thead>
<tbody>
<tr>
<td>M24/100 (2 per pack)</td>
<td>921024.2P</td>
<td></td>
</tr>
<tr>
<td>M24/100 (50 per pack)</td>
<td>921024.50P</td>
<td></td>
</tr>
<tr>
<td>F22/100 (2 per pack)</td>
<td>921022.2P</td>
<td></td>
</tr>
<tr>
<td>F22/100 (50 per pack)</td>
<td>921022.50P</td>
<td></td>
</tr>
</tbody>
</table>

**ECO flow straightener**

- 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.

<table>
<thead>
<tr>
<th>Scale-resistant ECO flow straightener</th>
<th>922024.2P</th>
<th>922022.2P</th>
</tr>
</thead>
<tbody>
<tr>
<td>M24/100</td>
<td>922024.2P</td>
<td></td>
</tr>
<tr>
<td>F22/100</td>
<td>922022.2P</td>
<td></td>
</tr>
<tr>
<td>2.5mm Allen key, chrome-plated</td>
<td>C282025</td>
<td></td>
</tr>
</tbody>
</table>
SECURITHERM
thermostatic and pressure-balancing mixers for showers and baths

SEQ UENT IAL THERMOSTATIC
MIXERS AND KITS
104

DUAL CONTROL
THERMOSTATIC
MIXERS AND KITS
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THERMOSTATIC
SHOWER PANELS
122

PRESSURE-BALANCING
MIXERS AND KITS
132
SECURITHERM recessed sequential thermostatic shower mixer 78000X + H9632 - Elbow outlet 868121 - SILVER flexible hose B3653 - Shower head B13
T-shaped Be-Line® shower bar 511944C - Be-Line® soap dish 511912W - Be-Line® sliding shower head holder 511911C - Removable Be-Line® lift-up shower seat 511920C
SECURITHERM: OPTIMISED ANTI-SCALDING FAILSAFE

Automatic anti-scalding failsafe
SECURITHERM thermostat 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’s thermostatic mixers the hot water shut-off is complete (with no trickle of water).
If the hot water supply fails, DELABIE’s 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’s sequential thermostatic 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 sequential thermostatic mixers, it is possible to undertake thermal shocks at the temperature of the hot water in the system.
Remove the control lever to unblock the temperature limiter index ring.

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 SECURITHERM sequential thermostatic models is thermally insulated, preventing any risk of burns when touching the mixer.

SEQUENTIAL OPEN AND CLOSING ON COLD WATER

Improved ergonomics and functionality
The same lateral movement over a 180° range opens the water flow and adjusts the temperature.

Opens and closes on cold water
SECURITHERM sequential mixers open and close on cold water for increased anti-scalding failsafe.

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

COMFORT AND ERGONOMICS

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

Ergonomic controls
and 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.

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

**BIOSAFE: INFECTION CONTROL**

No non-return valves
SHW/SCW cross flow is impossible
DELABIE has developed a unique system that enables sequential thermostatic mixers to close on Hot Water and Cold Water directly at the inlets, making non-return valves completely redundant.

The risk of cross flow is, therefore, completely eliminated.
For more information see page 11.

Low volume of standing water in the body
DELABIE’s sequential thermostatic mixers have specifically designed interiors that reduce the volume of standing water in the body.
Furthermore, they have just one mechanism rather than two like dual control models. Therefore, less components are in contact with the water and there is less standing water is in the mixer.
The risk of bacterial development is reduced.

Body with smooth interior
All the internal parts of DELABIE’s sequential thermostatic shower mixer bodies are completely smooth, reducing biofilm attachment and making it easier to treat.
For more information see page 10.

**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 151).
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. The 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 are fitted with a flow rate regulator set at 9 lpm. This enables them to achieve almost 50% water savings compared to other mixers (15 - 20 lpm).

**AND ALSO...**

Robust
Chrome-plated brass body.

10-year warranty against any manufacturing defects.
THERM./EP SHOWERS

Displayed model: SECURITHERM Recessed shower (ref. 790BOX + H9632)

- WATERPROOF RECESSING HOUSING
- SECURITHERM THERMOSTATIC
  - Temperature stability
  - Automatic HW shut-off in the event of CW failure
- SEQUENTIAL OPEN AND CLOSING
  - Improved functionality and ergonomics
- MAXIMUM TEMPERATURE LIMITER
  - Anti-scalding failsafe
- NO NON-RETURN VALVE
  - Infection control
- ERGONOMIC HYGIENE CONTROL LEVER
  - Easy to grip

Displayed model: SECURITHERM Recessed shower (ref. 790BOX + H9632)
• **SECURITHERM** anti-scalding failsafe: immediate shut-off if cold water supply fails, **Securitouch** thermal insulation
• Sequential open and closing on cold water: increased anti-scalding failsafe
• BIOSAFE infection control: body with smooth interior, fewer components in contact with water
• **No non-return valves on the inlets:** no risk of cross flow between HW and CW, reduced risk of bacterial proliferation

## SECURITHERM Securitouch shower
Sequential thermostatic mixer, with no non-return valves

- No risk of cross flow between hot and cold water.
- **No non-return valves** on the inlets.
- **Anti-scalding failsafe:** immediate shut-off if cold water supply fails.
- **Securitouch thermal insulation** prevents burns.
- Scale-resistant sequential thermostatic 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 offset STOP/CHECK connectors M½” M¾” (ref. 855755.2P), 2 in-line STOP/CHECK connectors M½” M¾” (ref. 855755UK.2P) or 2 offset standard connectors M½” M¾” (ref. 856794.2P).

### SECURITHERM Securitouch sequential shower

<table>
<thead>
<tr>
<th>Bottom outlet</th>
<th>H9630</th>
<th>H963015</th>
<th>H9630S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Offset STOP/CHECK connectors</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>In-line STOP/CHECK connectors</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Offset standard connectors</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Top outlet</td>
<td>H9640</td>
<td>H964015</td>
<td>H9640S</td>
</tr>
<tr>
<td>Offset STOP/CHECK connectors</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>In-line STOP/CHECK connectors</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Offset standard connectors</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Options:** BIOFIL shower head with integrated filter (see page 150)
Hydrotherapy accessories (see pages 149-151)
Auto-draining device (see page 152), floor traps (see page 155)
Other connectors available (see page 152)
SECURITHERM auto-draining shower kit

With Securitouch sequential thermostatic mixer

Shower kit with auto-draining device includes:
- **Mixer with scale-resistant sequential thermostatic cartridge:**
  - No risk of cross flow between hot and cold water.
  - No non-return valves on the inlets.
  - **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. M½” bottom outlet.
- **Auto-draining device** FM½” automatically drains the flexible and shower head (see page 152).

SECURITHERM Securitouch auto-draining shower kit

Offset STOP/CHECK connectors
H9630HYG
Offset standard connectors
H9630SHYG

Options: BIOFIL shower head with integrated filter (see page 150)
Soap dishes (see page 154), floor traps (see page 155)
Other connectors available (see page 152)

SECURITHERM shower kit

With Securitouch sequential thermostatic mixer

Shower kit includes:
- **Mixer with scale-resistant sequential thermostatic cartridge:**
  - No risk of cross flow between hot and cold water.
  - No non-return valves on the inlets.
  - **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. M½” bottom outlet.
- **Sliding shower head** on a chrome-plated rail with flexible hose and soap dish.
- **Shower hose retaining collar.**

SECURITHERM Securitouch shower kit

Offset STOP/CHECK connectors
H9630KIT
Offset standard connectors
H9630SKIT

Options: BIOFIL shower head with integrated filter (see page 150)
Auto-draining device (see page 152), floor traps (see page 155)
Other connectors available (see page 152)
**DELABIE / SECURITHERM** sequential thermostatic mixers

- **SECURITHERM** anti-scaling failsafe: immediate shut-off if cold water supply fails. **Securitouch** thermal insulation
- **Sequential open and closing on cold water**: increased anti-scaling failsafe
- **BIOSAFE** infection control: body with smooth interior, fewer components in contact with water
- **No non-return valves on the inlets**: no risk of cross flow between HW and CW, reduced risk of bacterial proliferation

**SECURITHERM Securitouch shower kit**
With sequential thermostatic mixer

Shower kit for exposed wall-mounting:
- Fixed TONIC JET shower head:
  - Chrome-plated solid brass and concealed 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).
- **Sequential thermostatic mixer with non-return valves**.
- Supplied with 2 offset STOP/CHECK connectors M½" M¾" (ref. 855755.2P)
  or 2 in-line STOP/CHECK connectors M½" M¾" (ref. 856755UK.2P).

Options: **BIOFIL** shower head with integrated filter (see page 150)
Soap dishes (see page 154), floor traps (see page 155)
Other connectors available (see page 152)
SECURITHERM sequential thermostatic mixers / DELABIE

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

**SECURITHERM recessed shower**
Sequential thermostatic mixer in a waterproof housing

- **Waterproof recessing housing** behind a bright polished stainless steel wall plate 160 × 220mm.
- Adjustable recessing depth from 10 - 30mm.
- Mixer with scale-resistant **sequential thermostatic cartridge**:
  - Sequential with no non-return valves (reduces bacterial development).
  - 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 at 3 bar with shower head.
  - **Hygiene control lever L. 100mm.**
  - M¾” inlets with integrated filters.
- Order a wall-mounted shower head or outlet to complete (see pages 145 and 153).

**SECURITHERM sequential shower mixer**
without shower head in a waterproof housing

<table>
<thead>
<tr>
<th>790BOX</th>
<th>H9632</th>
</tr>
</thead>
</table>

**Options**: Fixed shower head (see page 145), floor traps (see page 155)
SECURITHERM dual control thermostatic mixers / DELABIE

SECURITHERM: OPTIMISED ANTI-SCALDING FAILSAFE

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’s thermostatic mixers the hot water shut-off is complete (with no trickle of water).

If the hot water supply fails, DELABIE’s 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’s dual control thermostatic 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 dual control thermostatic mixers, it is possible to undertake thermal shocks at the temperature of the hot water in the system without removing the control.

Simply press the little red button with a pointed tool to override the maximum temperature limiter.

For refs. H9741TP and H9752P 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. For more information see page 13.

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 the majority of SECURITHERM dual control thermostatic models is thermally insulated. This removes all risk of burns when touching the mixer.

COMFORT AND ERGONOMICS

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

Ergonomic controls
DELABIE’s SECURITHERM dual control thermostatic mixers are fitted with ergonomic control knobs, 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.
BIOSAFE: INFECTION CONTROL

No non-return valves
SHW/SCW cross flow is impossible
DELABIE has developed a unique system that enables thermostatic mixers to close on Hot Water and Cold Water directly at the inlets. The design of the H9769 dual control mixers makes non-return valves completely redundant. As such all risk of cross flow between HW and CW supplies, creating the possibility of bacterial development, is eliminated.
For more information see page 11.

AUTO-DRAINING DEVICE

DELABIE recommends installing its auto-draining device (ref. 880) on all shower mixers 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 151). 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. The latter ensures that the flexible hose is perfectly taut, avoiding standing water in the flexible hose loop.

50% WATER AND ENERGY SAVINGS

Flow rate 9 lpm
SECURITHERM thermostatic shower mixers are fitted with a flow rate regulator or limiter set at 9 lpm. This enables them to achieve almost 50% water savings compared to other mixers (15 - 20 lpm).

AND ALSO...

Robust
Chrome-plated brass body.

10-year warranty against any manufacturing defects.

Low volume of standing water in the body
The H9769 dual control thermostatic mixer has specifically designed interiors that 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 certain DELABIE’s dual control thermostatic mixers are completely smooth, reducing biofilm attachment and making it easier to treat.
For more information see page 10.
THERM./EP SHOWERS

SECURITOUCH TECHNOLOGY
Complete thermal insulation

HOT WATER

COLD WATER

INTEGRATED STOPCOCK IN THE CONNECTOR
Easy to remove for disinfection
Anti-scalding failsafe can be checked

NO NON-RETURN VALVE
Infection control

VERY LOW WATER VOLUME
Infection control

Ergonomic control knob
Easy to grip

AUTO-DRAINING DEVICE
Automatically drains the shower head and flexible hose

MAXIMUM TEMPERATURE LIMITER
THERMAL SHOCK SAFETY

SECURITHERM THERMOSTATIC
Temperature stability
Automatic shut-off of HW in the event of CW failure

INTEGRATED STOPCOCK IN THE CONNECTOR
Easy to remove for disinfection
Anti-scalding failsafe can be checked

NO NON-RETURN VALVE
Infection control

VERY LOW WATER VOLUME
Infection control

Ergonomic control knob
Easy to grip

AUTO-DRAINING DEVICE
Automatically drains the shower head and flexible hose

MAXIMUM TEMPERATURE LIMITER
THERMAL SHOCK SAFETY

SECURITHERM THERMOSTATIC
Temperature stability
Automatic shut-off of HW in the event of CW failure

Displayed model: SECURITHERM Securitouch BIOSAFE shower (ref. H9769)
DELABIE / SECURITHERM dual control thermostatic mixers

- **SECURITHERM** anti-scaling failsafe: immediate shut-off if cold water supply fails. **Securitouch** thermal insulation.
- **No non-return valves on the inlets**: no risk of cross flow between HW and CW, reduced risk of bacterial proliferation.
- **BIOSAFE** infection control: body with smooth interior and low water volume, fewer components in contact with water.
- **Water savings**: 50%

**SECURITHERM Securitouch BIOSAFE shower**
Dual control thermostatic mixer, with no non-return valves

- No risk of cross flow between hot and cold water.
- No non-return valves on the inlets (patented system).
- Anti-scaling 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: up to 41°C.
- **Double temperature limiter**: 1st limiter set at 38°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 13).
- Flow rate limited to 9 lpm at 3 bar.
- Ergonomic controls.
- M½" shower outlet.
- M¾" inlets with integrated filters.
- Supplied with 2 offset wall connectors M½" M¾" (see page 152).

**SECURITHERM Securitouch BIOSAFE shower**
STOP/CHECK connectors

<table>
<thead>
<tr>
<th>Standard connectors</th>
<th>H9769</th>
</tr>
</thead>
</table>

**Options**: auto-draining device (see page 152)
Hydrotherapy accessories (see pages 149-151)
Other connectors available (see page 152)

112 Thermostatic/EP showers
**SECURITHERM** dual control thermostatic mixers / **DELABIE**

- **SECURITHERM** anti-scaling failsafe: immediate shut-off if cold water supply fails, **Securitouch** thermal insulation
- **No non-return valves on the inlets**: no risk of cross flow between HW and CW, reduced risk of bacterial proliferation
- **BIOSAFE** infection control: body with smooth interior and low water volume, fewer components in contact with water
- **Water savings**: 50%

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**SECURITHERM auto-draining shower kit**

With **Securitouch** dual control thermostatic mixer

- Shower kit with auto-draining device includes:
  - Dual control mixer with scale-resistant thermostatic cartridge:
    - No risk of cross flow between hot and cold water.
    - No non-return valves on the inlets (patented system).
    - Anti-scaling 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 38°C, 2nd limiter set at 41°C. Thermal shocks are possible.
    - Flow rate limited to 9 lpm at 3 bar.
    - Ergonomic control knobs.
    - M 1/2" shower outlet.
    - M 3/4" inlets with integrated filters.
  - Shower head with flexible hose and chrome-plated, wall-mounted tilting support.
  - Auto-draining device FM 1/2" automatically drains the flexible hose and the shower head (see page 152).

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**SECURITHERM shower kit**

With **Securitouch** dual control thermostatic mixer

- Shower kit includes:
  - Dual control mixer with scale-resistant thermostatic cartridge:
    - No risk of cross flow between hot and cold water.
    - No non-return valves on the inlets (patented system).
    - Anti-scaling 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 38°C, 2nd limiter set at 41°C. Thermal shocks are possible.
    - Flow rate limited to 9 lpm at 3 bar.
    - Ergonomic control knobs.
    - M 1/2" shower outlet.
    - M 3/4" inlets with integrated filters.
  - Sliding shower head on a chrome-plated rail with flexible hose and soap dish.
  - Shower hose retaining collar.

---

**SECURITHERM Securitouch auto-draining shower kit**

- Offset STOP/CHECK connectors: H9769HYG
- Offset standard connectors: H9769SHYG
  - Options: BIOFIL shower head with integrated filter (see page 150)
  - Soap dishes (see page 154), floor traps (see page 155)
  - Other connectors available (see page 152)

**SECURITHERM Securitouch shower kit**

- Offset STOP/CHECK connectors: H9769KIT
- Offset standard connectors: H9769SKIT
  - Options: BIOFIL shower head with integrated filter (see page 150)
  - Auto-draining device (see page 152), floor traps (see page 155)
  - Other connectors available (see page 152)
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.
- Double temperature limiter: 1st limiter set at 38°C, 2nd limiter set at 41°C.
- Thermal shocks are possible without removing the control knob or shutting off the cold water supply on H9741 and H9741S models (see page 13).
- Flow rate regulated at 9 lpm.
- ERGO control knobs.
- M½" shower outlet.
- M¼" inlets with integrated filters and non-return valves.
- Supplied with 2 offset STOP/CHECK connectors M½" M¼" (ref. 855755.2P), 2 in-line STOP/CHECK connectors M½" M¼" (ref. 855755UK.2P) or 2 offset standard connectors M½" M¾" (ref. 856794.2P).

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 without removing the control knob or shutting off the cold water supply on H9752S models (see page 13).
- Automatic diverter with low pressure lock maintains the shower position even if the flow rate is too low.
- ERGO control knobs.
- M½" shower outlet.
- M¼" inlets with integrated filters and non-return valves.
- Supplied with 2 in-line STOP/CHECK connectors M½" M¼" (ref. 855755UK.2P) or 2 offset standard connectors M½" M¾" (ref. 856794.2P).

SECURITHERM Securitouch shower
Options: auto-draining device (see page 152)
Hydrotherapy accessories (see pages 149-151)
Other connectors available (see page 152)

SECURITHERM Securitouch shower-bath
Options: auto-draining device (see page 152)
Hydrotherapy accessories (see pages 149-151)
Other connectors available (see page 152)
SECURITHERM dual control thermostatic mixers / DELABIE

- **SECURITHERM** anti-scaling failsafe: immediate shut-off if cold water supply fails
- **Securitouch** hot water insulation: prevents any risk of burns when touching the mixer
- **Ergonomics**: 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:
- **Dual control mixer with scale-resistant thermostatic cartridge**:
  - Anti-scaling 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.
  - M1/2” shower outlet.
  - M3/4” inlets with integrated filters and non-return valves.
- **Shower head with flexible hose and chrome-plated, wall-mounted tilting support**.
- **Auto-draining device FM1/2” automatically drains the flexible and shower head (see page 152).**

Thermal insulation

**SECURITHERM shower kit**
With Securitouch dual control thermostatic mixer

Shower kit includes:
- **Dual control mixer with scale-resistant thermostatic cartridge**:
  - Anti-scaling 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.
  - M1/2” shower outlet.
  - M3/4” inlets with integrated filters and non-return valves.
- **Sliding shower head on a chrome-plated rail with flexible hose and soap dish.**
- **Shower hose retaining collar.**

Thermal insulation

**SECURITHERM Securitouch auto-draining shower kit**
Offset STOP/CHECK connectors
Offset standard connectors
Options: BIOFIL shower head with integrated filter (see page 150)
Soap dishes (see page 154), floor traps (see page 155)
Other connectors available (see page 152)

**SECURITHERM Securitouch shower kit**
Offset STOP/CHECK connectors
Offset standard connectors
Options: BIOFIL shower head with integrated filter (see page 150)
Auto-draining device (see page 152), floor traps (see page 155)
Other connectors available (see page 152)
SECURITHERM shower
Dual control thermostatic mixer

- **Anti-scaling failsafe**: immediate shut-off if cold water supply fails.
- **Ergonomics**: controls are easy to grip, suitable for hospital patients, children, the elderly and disabled people
- **Water savings**: 50%

SECURITHERM shower
Dual control thermostatic mixers

- **SECURITHERM** anti-scaling failsafe: immediate shut-off if cold water supply fails
- **Ergonomics**: controls are easy to grip, suitable for hospital patients, children, the elderly and disabled people
- **Water savings**: 50%

- **Anti-scaling 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 13).
- **Flow rate regulated at 9 lpm**.
- **CLASSIC controls knobs**.
- **M½” shower outlet**.
- **M¾” inlets with integrated filters and non-return valves**.
- **Supplied with 2 offset wall connectors M½” M¾” (see page 152)**.

**SECURITHERM shower**

<table>
<thead>
<tr>
<th>STOP/CHECK connectors</th>
<th>H9739</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard connectors</td>
<td>H9739S</td>
</tr>
</tbody>
</table>

**Options**:
- Auto-draining device (see page 152)
- Hydrotherapy accessories (see pages 149-151)
- Other connectors available (see page 152)
SECURITHERM® dual control thermostatic mixers / DELABIE

- **SECURITHERM** anti-scalding failsafe: immediate shut-off if cold water supply fails
- **Ergonomics**: 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:
- **Dual control 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.
  - Flow rate regulated at 9 lpm.
  - CLASSIC control knobs.
  - M1/2" shower outlet.
  - M3/4" inlets with integrated filters and non-return valves.
  - Shower head with flexible hose and chrome-plated, wall-mounted tilting support.
- **Auto-draining device** FM1/2" automatically drains the flexible and shower head (see page 152).

---

**SECURITHERM shower kit**

With dual control thermostatic mixer

Shower kit includes:
- **Dual control 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.
  - Flow rate regulated at 9 lpm.
  - CLASSIC control knobs.
  - M1/2" shower outlet.
  - M3/4" inlets with integrated filters and non-return valves.
  - Sliding shower head on a chrome-plated rail with flexible hose and soap dish.
  - Shower hose retaining collar.

---

**SECURITHERM auto-draining shower kit**

Offset STOP/CHECK connectors H9739HYG
Offset standard connectors H9739SHYG

**Options**: BIOFIL shower head with integrated filter (see page 150)
Soap dishes (see page 154), floor traps (see page 155)
Other connectors available (see page 152)

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**SECURITHERM shower kit**

Offset STOP/CHECK connectors H9739KIT
Offset standard connectors H9739SKIT

**Options**: BIOFIL shower head with integrated filter (see page 150)
Auto-draining device (see page 152), floor traps (see page 155)
Other connectors available (see page 152)
**BIOSAFE: INFECTION CONTROL**

**Electronic shower panels**
- Opens/closes automatically, with no manual contact
  DELABIE’s electronic shower panels are operated by active infrared detection. Flow opens/shuts off when the detector senses hands. No manual contact prevents the spread of germs.
- Anti-bacterial duty flush programme
  DELABIE’s 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 technology without a membrane (patented system). With this piston-operated solenoid valve, water is drained and renewed with every use which reduces niches where bacteria can develop.

**Time flow shower panels**
- 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 after washing prevents the spread of germs by hand.

**Sequential shower panels**
- Open and closing on cold water, with hygiene control lever
  Open and closing using the lever enables control without manual contact (using wrist, elbows...).
- No non-return valves
  SHW/SCW cross flow is impossible
  DELABIE has developed a unique system that enables sequential thermostatic shower panels to close on Hot Water and Cold Water directly at the inlets, making non-return valves completely redundant. The risk of cross flow, often responsible for bacterial development, is therefore eliminated.

**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 use, preventing the spread of germs.

**Thermal shocks**
With SECURITHERM technology, it is possible to undertake thermal shocks without removing the panel.

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**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.
- Automatic shut-off and split delivery
  - For electronic models:
    The shower can be interrupted at any moment by the user. If the user forgets, a security shut-off stops the flow after 60 seconds. This removes the risk of waste through negligence. The flow time is reduced to the necessary minimum (wetting, rinsing).
  - For time flow models:
    The time flow is automatic and shuts off after approximately 30 seconds of flow.

**Flow rate 6 lpm**
DELABIE’s SECURITHERM shower panels are regulated at 6 lpm. The flow rate remains constant regardless of pressure variations in the system.

**Energy savings**
- For electronic models:
  DELABIE’s 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 lifespan 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’s shower panels also result in energy savings.
- For time flow models:
  DELABIE’s SECURITHERM time flow panels operate completely autonomously with no need for an electrical supply. They do not consume any power at all.

**Environmental labels**
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, HQE or ESTIDAMA.
For more information see pages 16-17.
DELABIE / SECURITHERM mixers Thermostatic shower panels

**TECHNICAL SOLUTIONS SUITABLE FOR ALL CONSTRAINTS**

**Comfortable to use**
- Electronic SEURITHERM with 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, provide perfect hygiene.
- SEURITHERM 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 showers with no effort required. TEMPOSOFT panels are fitted with a priming system that requires half the effort to operate ensuring user comfort.
- SEURITHERM sequential panels
  The same lateral movement opens the water flow and adjusts the temperature.

**Temperature selection and stability**
The users can choose their desired water temperature by adjusting the single control. SEURITHERM thermostatic shower panels provide additional comfort by regulating water temperature, even with variations in pressure.

**Anti-scalding failsafe**
- Maximum temperature limiter
  DELABIE’s mixers are delivered 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 any risk of scalding.
- Anti-scalding failsafe
  SEURITHERM thermostatic technology ensures that the hot water supply 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 shower panels are available with top inlet (via stopcocks) or concealed inlet (via flexibles).

**Sizes and finishes**
DELABIE’s shower panels are available in two different finishes: aluminium H. 1.0m, W. 21cm and stainless steel H. 1.20m, W. 25cm. The large models are ideal for hiding the traces of previous recessed installations.

**DESIGNED SPECIFICALLY FOR PUBLIC PLACES**

**Resistance to intensive use and vandalism**
DELABIE’s shower panels are 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 mechanisms and sensors on electronic models 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. To prevent abuse and waste, the security shut-off system on electronic models prevents the valve from being blocked in continuous flow.

**Superior endurance**
DELABIE’s shower panel systems are hard-wearing. The piston-operated solenoid valve on electronic models is self-cleaning, as is the hydraulic time flow system with calibrated groove on time flow models which extends their lifespans to over 500,000 operations.

DELABIE’s controls perform to the highest standards. Each model is subjected to endurance tests under extreme conditions in endurance 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 of time flow models are protected by filters.

**Simple to maintain**
The spare parts are standardised to ensure quick and easy replacement by maintenance staff. Access to the battery on electronic models and mixer cartridge is from the front, without having to remove the panel.

**Easy to install**
The shower panels are delivered ready to mount and are quick to install.

**Reliable presence detection**
DELABIE has chosen the most reliable detection system for electronic models: infrared active pulse. It cannot be adjusted or affected by variations in light levels.

**CE marked**
DELABIE’s electronic controls are compliant with European directives CEM 2014/30/UE and BT 2014/35/UE.

**10-year warranty** against any manufacturing defects.
THERM./EP
SHOWERS

Displayed model: SECURITHERM electronic panel (ref. 792410)

**FLOW RATE REGULATED AT 6 LPM**
Water savings

**SCALE-RESISTANT SHOWER HEAD**
Minimal servicing

**ANODISED ALUMINIUM PANEL**
Easy to clean

**ON/OFF CONTROL WITH NO CONTACT**
Guaranteed hygiene

**SECURITHERM TECHNOLOGY**
Stable temperatures
Maximum anti-scalding failsafe

**THERMAL SHOCKS**
System hygiene

**TEMPERATURE CONTROL**
Improved comfort

**STREAMLINED DESIGN**
Reducing the risk of harm

**LIGATURE-RESISTANT COLLAR**
Reducing the risk of harm

**6V LITHIUM BATTERY**
Average lifespan 3 - 6 years (~350,000 cycles).
Can be replaced without shutting off the water or removing the panel

**REINFORCED AND CONCEALED FIXINGS**
Vandal-resistant
SECURITHERM aluminium shower panel
With electronic thermostatic mixer

- Anodised aluminium 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. s 79240015 and 792410UK: single temperature limiter set at 41°C).
- Anti-scaling failsafe: automatic shut-off if cold or hot water supply fails.
- Thermal shocks are possible.
- Battery-operated with 223 6V Lithium battery.
- Infrared presence detection. Shower starts when hand is moved towards the sensor (detection distance ~4cm).
- Shuts off voluntarily or automatically after ~60 seconds.
- Duty flush (~60 seconds every 24 hours after the last use).
- Flow rate 6 lpm at 3 bar.
- Chrome-plated, tamperproof, scale-resistant ROUND shower head with automatic flow rate regulation.
- Concealed fixings.
- Filters and non-return valves.

SECURITHERM aluminium electronic shower panel

Top inlet via in-line stopcocks M½” 792400
Top inlet via in-line stopcocks Ø 15mm for compression fittings* 79240015
Concealed inlet via flexibles M½” 792410
Concealed inlet via flexibles M½” * 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 stainless steel shower panel
With electronic thermostatic mixer

- Large 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 (except for ref. 79240415: single temperature limiter set at 41°C).
- Anti-scalding failsafe: automatic shut-off if cold or hot 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 moved towards the sensor (detection distance ~4cm).
  - Mains supply: shower starts when electronic push-button is pressed.
- Shuts off voluntarily or automatically after ~60 seconds.
- Duty flush (~60 seconds every 24 hours after the last use).
- Flow rate 6 lpm at 3 bar.
- Chrome-plated, tamperproof, scale-resistant ROUND shower head with automatic flow rate regulation.
- Concealed fixings.
- Filters and non-return valves.
- Stopcocks.

SECURITHERM stainless steel electronic shower panel

Top inlet via in-line stopcocks Ø15mm for compression fittings
Battery-operated, with integrated soap dish*  79240415
Top inlet via in-line stopcocks M1/2"
Mains supply, with integrated soap dish  792504
Battery-operated, with integrated soap dish  792404
Battery-operated, without soap dish  792403
Concealed inlet via flexibles M1/2"
Mains supply, with integrated soap dish  792514
Battery-operated, with integrated soap dish  792414
Battery-operated, without soap dish  792413

* single temperature limiter set at 41°C
Options: stainless steel shower panel extension (see page 154)
For 10 lpm comfort nozzle add CF at the end of the reference (see page 145)
Floor traps (see page 155)
SECURITHERM aluminium shower panel
With dual control thermostatic mixer and handset

- Anodised aluminium shower panel for wall-mounted, exposed installation.
- SECURITHERM thermostat.
- 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 failsafe: automatic shut-off if cold or hot water supply fails.
- Thermal shocks are possible.
- Time flow valve ~30 seconds with soft-touch operation.
- Chrome-plated, tamperproof, scale-resistant ROUND shower head with automatic flow rate regulation at 6 lpm at 3 bar.
- Handset with removable flexible via rapid push-fit STOP connector and wall support supplied.
- M½" connections.
- Concealed fixings.
- Filters and non-return valves.

SECURITHERM aluminium dual control time flow shower panel
Top inlet via in-line stopcocks 792320
Concealed inlet via flexibles 792330
Options: extension (see page 154), floor traps (see page 155)

SECURITHERM aluminium non-time flow dual control shower panel
Top inlet via in-line stopcocks M½" 792390
Top inlet via in-line stopcocks Ø 15mm for compression fittings* 79239015
Concealed inlet via flexibles M½" 792380
* single temperature limiter set at 41°C
Options: extension (see page 154), floor traps (see page 155)
SECURITHERM stainless steel shower panel
With dual control thermostatic mixer and handset

- Large 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 failsafe: automatic shut-off if cold or hot water supply fails.
- Time flow valve ~30 seconds with soft-touch operation to control the ROUND shower head and non-time flow ¼-turn valve to control the handset.
- Thermal shocks are possible thanks to the non-time flow valve.
- Chrome-plated, tamperproof, scale-resistant ROUND shower head with automatic flow rate regulation at 6 lpm at 3 bar.
- Handset with removable flexible via rapid push-fit STOP connector and wall support supplied.
- M½" connections.
- Concealed fixings.
- Filters and non-return valves.
- Stopcocks.

SECURITHERM stainless steel non-time flow dual control shower panel
Top inlet via in-line stopcocks
Concealed inlet via flexibles
Options: extension (see page 154), floor traps (see page 155)

SECURITHERM stainless steel dual control time flow shower panel
Top inlet via in-line stopcocks
Concealed inlet via flexibles
Options: extension (see page 154), floor traps (see page 155)
SECURITHERM sequential thermostatic shower panel H9636 - Comfort lift-up shower seat with backrest 510434
L-shaped grab bar 5070DP2 - Floor trap 683001
• **SECURITHERM** anti-scalding failsafe: automatic shut-off if cold or hot water supply fails.
• **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 failsafe: automatic shut-off if cold or hot water supply fails.
• Thermal shocks are possible.
• Chrome-plated, tamperproof, scale-resistant **ROUND shower head** with automatic flow rate regulation at 6 lpm at 3 bar.
• Hygiene control lever L. 100mm.
• Concealed fixings.
• Filters.

**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 failsafe: automatic shut-off if cold or hot water supply fails.
• Thermal shocks are possible.
• **Flow rate 9 lpm** at 3 bar.
• **Sliding handset** on a chrome-plated rail with removable flexible hose via rapid push-fit STOP connector.
• Hygiene control lever L. 100mm.
• Concealed fixings.
• Filters.

**SECURITHERM aluminium sequential shower panel with fixed shower head**
Top inlet via in-line stopcocks
Ø 15mm for compression fittings and copper tails H963915
M19\* with flexibles H9639
Concealed inlet via flexibles
M19\* with flexibles H9634
Options: extension (see page 154), floor traps (see page 155)

**SECURITHERM aluminium sequential shower panel with handset**
Top inlet via in-line stopcocks
Ø 15mm for compression fittings and copper tails H963615
M19\* with flexibles H9636
Concealed inlet via flexibles
M19\* with flexibles H9635
Options: extension (see page 154), floor traps (see page 155)
**SECURITHERM: OPTIMISED ANTI-SCALDING SAFETY**

**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’s 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.

**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.

**SECURITOUCH TECHNOLOGY: 100% SAFETY**
DELABIE has placed an increased emphasis on safety to ensure superior comfort thanks to the new generation of Securitouch mixers.
The interior of the 2739EP SECURITHERM mixers 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 compensating for the variations in pressure between the Hot and Cold water supplies, SECURITHERM EP mixers provide users with a constant temperature, removing any risk of a cold shower or scalding.

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

| Mixed water temperature in relation to pressure variations of SHW/SCW | HW: 3 bar HW: 2 bar  |
|---|---|---|
| Standard mechanical mixers | 27°C 64°C 15.5°C |

Starting calibration = 38°C

**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.
As such, water consumption is significantly reduced while ensuring maximum user comfort.

**Water savings per use**

<table>
<thead>
<tr>
<th>Conventional mixer at 15 lpm</th>
<th>DELABIE mixer at 9 lpm</th>
</tr>
</thead>
<tbody>
<tr>
<td>90L</td>
<td>10 min.</td>
</tr>
</tbody>
</table>
**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’s SECURITHERM pressure-balancing mechanical shower mixers offers simple and effective solutions to reduce bacterial 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’s 2739EP shower mixer bodies are completely smooth, reducing biofilm attachment and making it easier to treat.

*For more information see page 10.*

**Low volume of standing water in the body**

Unlike other mixers, the generation of 2739EP SECURITHERM mechanical shower mixers 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.

**AUTO-DRAINING DEVICE**

**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 151*).

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. The latter ensures that the flexible hose is perfectly taut, avoiding standing water in the flexible hose loop.

**AND ALSO...**

**Robust**

Chrome-plated brass body.

**10-year warranty** against any manufacturing defects.

Find out more about our entire range of SECURITHERM EP mixers with retracting hand sprays on page 68.
CARTRIDGE AND BODY WITH LOW WATER VOLUME
Infection control

BODY WITH SMOOTH INTERIOR
Infection control

STOPCOCK INTEGRATED IN THE CONNECTOR
Mixer can be easily removed for disinfection
Anti-scalding safety can be checked

PURGE INTEGRATED IN THE CONNECTOR
Non-return valves can be checked

SECURITOUCH TECHNOLOGY
Total thermal insulation

AUTO-DRAINING DEVICE
Automatically drains the shower head and flexible hose

ERGONOMIC SCULPTURED LEVER
Easy to grip

Displayed model: SECURITHERM EP Securitouch shower (ref. 2739EP)
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.
- **Body with smooth interior and low water volume** (reduces bacterial development).
- **Flow rate regulated at 9 lpm**.
- **M½” shower outlet** with integrated non-return valve.
- Supplied with 2 offset wall connectors M½” M¾” (see page 152).

Also available with conventional cartridge (see page 140)

---

**SECURITHERM EP Securitouch shower**

**STOP/CHECK connectors**

<table>
<thead>
<tr>
<th>Sculptured control lever</th>
<th>Solid control lever</th>
</tr>
</thead>
<tbody>
<tr>
<td>2739EP</td>
<td>2739TEP</td>
</tr>
</tbody>
</table>

**Standard connectors**

<table>
<thead>
<tr>
<th>Sculptured control lever</th>
<th>Solid control lever</th>
</tr>
</thead>
<tbody>
<tr>
<td>2739EPS</td>
<td>2739TEPS</td>
</tr>
</tbody>
</table>

**Options**

- Auto-draining device (see page 152)
- Hydrotherapy accessories (see pages 149-151)
- BIOFIL shower head with integrated filter (see page 150)
- Other connectors available (see page 152)
SECURITHERM EP auto-draining shower kit
With Securitouch pressure-balancing 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.
  - Body with smooth interior and low water volume.
  - Flow rate regulated at 9 lpm.
- M½" shower outlet with integrated non-return valve.
- Shower head with flexible hose and chrome-plated, wall-mounted tilting support.
- **Auto-draining device** FM½" automatically drains the flexible and shower head (see page 152).

SECURITHERM EP Securitouch auto-draining shower kit
STOP/CHECK connectors 2739EPHYG
Standard connectors 2739EPShYG

Options: BIOFIL shower head with integrated filter (see page 150)
Soap dishes (see page 154), floor traps (see page 155)
Other connectors available (see page 152)

SECURITHERM EP shower kit
With Securitouch pressure-balancing 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.
  - Body with smooth interior and low water volume.
  - Flow rate regulated at 9 lpm.
- M½" shower outlet with integrated non-return valve.
- Sliding shower head on a chrome-plated rail with flexible hose and soap dish.
- **Shower hose retaining collar**.

SECURITHERM EP Securitouch shower kit
STOP/CHECK connectors 2739EPKIT
Standard connectors 2739EPShKG

Options: BIOFIL shower head with integrated filter (see page 150)
Auto-draining device (see page 152), floor traps (see page 155)
Other connectors available (see page 152)
SECURITHERM EP shower
Pressure-balancing mixer

- **Anti-scalding safety**: HW flow rate is reduced if CW supply fails.
- **Ergonomics**: sculptured lever is easy to grip
- **Water savings**: 50%

SECURITHERM EP shower kit with auto-draining device:
- Shower head with flexible hose and chrome-plated, wall-mounted tilting support.
- **Auto-draining device** FM½" automatically drains the flexible and shower head (see page 152).

SECURITHERM EP shower kit:
- Sliding shower head on a chrome-plated rail with flexible hose and soap dish.
- **Shower hose retaining collar**.

---

**SECURITHERM EP shower**

<table>
<thead>
<tr>
<th>STOP/CHECK connectors</th>
<th>2539EP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard connectors</td>
<td>2539EPS</td>
</tr>
</tbody>
</table>

**Options**:
- auto-draining device (see page 152)
- Hydrotherapy accessories (see pages 149-151)
- BIOFIL shower head with integrated filter (see page 150)
- Other connectors available (see page 152)
SECURITHERM EP shower
Pressure-balancing mixer

• **Anti-scalding safety:** HW flow rate is reduced if CW supply fails.
• Ø 40mm pressure-balancing ceramic cartridge.
• Pre-set maximum temperature limiter.
• Flow rate regulated at 9 lpm.
• Sculptured control lever.
• 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 conventional cartridge (see page 142)

SECURITHERM EP shower kit with auto-draining device:
• Shower head with flexible hose and chrome-plated, wall-mounted tilting support.
• **Auto-draining device** FM1/2" automatically drains the flexible and shower head (see page 152).

SECURITHERM EP shower kit:
• Sliding shower head on a chrome-plated rail with flexible hose and soap dish.

<table>
<thead>
<tr>
<th>SECURITHERM EP shower</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>STOP/CHECK connectors</td>
<td>2239EP</td>
</tr>
<tr>
<td>Standard connectors</td>
<td>2239EPS</td>
</tr>
</tbody>
</table>

**Options:**
- auto-draining device (see page 152)
- Hydrotherapy accessories (see pages 149-151)
- BIOFIL shower head with integrated filter (see page 150)
- Other connectors available (see page 152)

<table>
<thead>
<tr>
<th>SECURITHERM EP shower kit</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto-draining</td>
<td></td>
</tr>
<tr>
<td>STOP/CHECK connectors</td>
<td>2239EPHYG</td>
</tr>
<tr>
<td>Standard connectors</td>
<td>2239EPSHYG</td>
</tr>
<tr>
<td>Standard</td>
<td></td>
</tr>
<tr>
<td>STOP/CHECK connectors</td>
<td>2239EPKIT</td>
</tr>
<tr>
<td>Standard connectors</td>
<td>2239EPSKIT</td>
</tr>
</tbody>
</table>

**Options:**
- BIOFIL shower head with integrated filter (see page 150)
- Soap dishes (see page 154), floor traps (see page 155)
- Other connectors available (see page 152)
Mixers with ceramic cartridges for showers and baths

MIXERS FOR SHOWERS AND BATHS
140

RECESSED SHOWER MIXERS
144
ANTI-SCALDING SAFETY

**Maximum temperature limiter**
All DELABIE’s 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’s 2739 mixers are fitted with an exclusive solution which effectively reduces temperature variations if there are pressure variations in the system.

However, these mixers do not have the precision of SECURITHERM thermostatic or EP mixers and they are not fitted with an anti-scalding safety (Hot Water shut-off if the Cold Water supply fails). The 2739 mixers provide an intermediate economic solution.

**Reduced risk of Hot Water/Cold Water cross flow**
On the new generation of DELABIE’s 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’s 2739 mixers 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.).

With the 2739 generation of mechanical shower mixers DELABIE offers simple and effective solutions to reduce bacterial 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’s 2739 shower mixers are completely smooth, reducing biofilm attachment and making it easier to treat. For more information see page 10.

**Low volume of standing water in the body**

Unlike other mixers, the 2739 generation of mechanical shower mixers 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.

**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 151).

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. The 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**

DELABIE’s 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. 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.

**Water savings per use**
Securitouch shower mixer
Mechanical mixer, body with smooth interior

- Securitouch thermal insulation prevents burns.
- Ø 40mm ceramic cartridge.
- Pre-set maximum temperature limiter.
- Body with smooth interior and low water volume (reduces bacterial development).
- Flow rate regulated at 9 lpm.
- M½" shower outlet with integrated non-return valve.
- Supplied with 2 offset wall connectors M½" M¾" (see page 152).

Also available with pressure-balancing cartridge (see page 132)

Securitouch shower mixer
STOP/CHECK connectors

| Sculptured control lever | 2739 |
| Solid control lever     | 2739T |

Standard connectors

| Sculptured control lever | 2739S |
| Solid control lever     | 2739TS |

Options: auto-draining device (see page 152)
Hydrotherapy accessories (see pages 149-151)
BIOFIL shower head with integrated filter (see page 150)
Other connectors available (see page 152)
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.
  - Body with smooth interior and low water volume.
  - Flow rate regulated at 9 lpm.
- M½" shower outlet with integrated non-return valve.
- Supplied with 2 offset wall connectors M½" M¾" (see page 152).
- Shower head with flexible hose and chrome-plated, wall-mounted tilting support.
- **Auto-draining device** FM½" automatically drains the flexible hose and shower head (see page 152).

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.
  - Body with smooth interior and low water volume.
  - Flow rate regulated at 9 lpm.
- M½" shower outlet with integrated non-return valve.
- Supplied with 2 offset wall connectors M½" M¾" (see page 152).
- Sliding shower head on a chrome-plated rail with flexible hose and soap dish.
- **Shower hose retaining collar**.

---

Securitouch auto-draining shower kit
STOP/CHECK connectors  2739HYG
Standard connectors  2739SKIT

**Options**:
- BIOFIL shower head with integrated filter (see page 150)
- Soap dishes (see page 154), floor traps (see page 155)
- Other connectors available (see page 152)

Securitouch shower kit
STOP/CHECK connectors  2739KIT
Standard connectors  2739SKIT

**Options**:
- BIOFIL shower head with integrated filter (see page 150)
- Auto-draining device (see page 152), floor traps (see page 155)
- Other connectors available (see page 152)
DELABIE / Mixers with ceramic cartridges

- Anti-scalding safety: pre-set maximum temperature limiter
- Ergonomics: 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.
- M½" shower outlet with integrated non-return valve.
- Sculptured control lever.
- Supplied with 2 offset wall connectors M½" M¾" (see page 152).

Also available with pressure-balancing cartridge (see page 134)

**Shower mixer**
Mechanical mixer

- Ø 40mm ceramic cartridge.
- Pre-set maximum temperature limiter.
- Flow rate regulated at 9 lpm.
- M½" shower outlet with integrated non-return valve.
- Sculptured control lever.
- Supplied with 2 offset wall connectors M½" M¾" (see page 152).

Also available with pressure-balancing cartridge (see page 135)

**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.
- M½" shower outlet with integrated non-return valve.
- Sculptured control lever.
- Supplied with 2 offset wall connectors M½" M¾" (see page 152).

Options: auto-draining device (see page 152)
Biofil shower head with integrated filter (see page 150)
Hydrotherapy accessories (see pages 149-151)

Shower mixer
STOP/CHECK connectors 2539
Standard connectors 25395

Options: auto-draining device (see page 152)
Biofil shower head with integrated filter (see page 150)
Hydrotherapy accessories (see pages 149-151)

Shower-bath mixer
STOP/CHECK connectors 2252S
Standard connectors 22395

Options: auto-draining device (see page 152)
Biofil shower head with integrated filter (see page 150)
Hydrotherapy accessories (see pages 149-151)
\textbf{Anti-scaling safety:} pre-set maximum temperature limiter
\textbf{Ergonomics:} sculptured control lever is easy to grip
\textbf{Water savings:} 50%

\section*{Classic auto-draining shower kit
With mechanical shower mixer}

Shower kit with auto-draining device includes:
- Mixer with $\varnothing$ 40mm ceramic cartridge, pre-set temperature limiter:
  - Flow rate regulated at 9 lpm.
  - M½" shower outlet with integrated non-return valve.
  - Supplied with 2 offset wall connectors M½” M¾” (see page 152).
- Shower head with flexible hose and chrome-plated, wall-mounted tilting support.
- Auto-draining device FM½” automatically drains the flexible hose and shower head (see page 152).

\begin{center}
\begin{tabular}{ll}
\textbf{Auto-draining shower kit} & \\
STOP/CHECK connectors & 2539HYG \\
Standard connectors & 2539SHYG \\
\hline
\textbf{Options:} BIOFIL shower head with integrated filter (see page 150) & \\
Soap dishes (see page 154), floor traps (see page 155) & \\
\end{tabular}
\end{center}

\section*{Classic shower kit
With mechanical shower mixer}

Shower kit includes:
- Mixer with $\varnothing$ 40mm ceramic cartridge, pre-set temperature limiter:
  - Flow rate regulated at 9 lpm.
  - M½” shower outlet with integrated non-return valve.
  - Supplied with 2 offset wall connectors M½” M¾” (see page 152).
- Sliding shower head on a chrome-plated rail with flexible hose and soap dish.
- Shower hose retaining collar.

\begin{center}
\begin{tabular}{ll}
\textbf{Shower kit} & \\
STOP/CHECK connectors & 2539KIT \\
Standard connectors & 2539SKIT \\
\hline
\textbf{Options:} BIOFIL shower head with integrated filter (see page 150) & \\
Auto-draining device (see page 152), floor traps (see pages 155) & \\
\end{tabular}
\end{center}
RECESSSED SHOWERS MIXERS

- Waterfall recessing housing behind a bright polished stainless steel wall plate 160 x 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 to complete (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).

**Shower mixer without shower head in waterproof housing**

<table>
<thead>
<tr>
<th>790BOX + 2543</th>
</tr>
</thead>
<tbody>
<tr>
<td>Options: floor traps (see page 155), fixed shower head (see opposite)</td>
</tr>
</tbody>
</table>

**Wall-mounted, recessed shower mixer**

<table>
<thead>
<tr>
<th>2443</th>
</tr>
</thead>
<tbody>
<tr>
<td>Options: floor traps (see page 155), fixed shower head (see opposite)</td>
</tr>
</tbody>
</table>
**TONIC JET**
Scale-resistant shower head

- Fixed shower head.
- **Flow rate 6 lpm at 3 bar.**
- **Automatic flow rate regulation.**
- Scale-resistant and ligature-resistant nozzle with adjustable spray angle.
- Chrome-plated solid brass.
- Fixed with concealed blocking screw.
- Systematically drains after use (no impurity or water retention).
- Rain effect grid ref. 712000GR: recommended for small, raised shower trays.
- M½” recessed inlet.

---

**ROUND**
Scale-resistant shower head

- Fixed shower head.
- **Flow rate 6 lpm at 3 bar.**
- **Automatic flow rate regulation.**
- Scale-resistant and ligature-resistant nozzle with adjustable spray angle.
- Chrome-plated solid brass.
- Fixed with concealed blocking screw.
- Systematically drains after use (no impurity or water retention).
- M½” recessed inlet.

---

**CF comfort nozzle**
10 lpm

- Scale-resistant nozzle made from Hostaform®.
- Comfortable jet 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.

---

**TONIC JET shower head**
Scale-resistant, adjustable jet 712000
Grid, rain effect 712000GR
Alternative models available on request

**ROUND shower head**
709000
Alternative models available on request

**CF comfort nozzle**
CF
Additional fittings for showers

SHOWER KITS 148

HYDROTHERAPY ACCESSORIES 149

CONNECTORS SHOWER ACCESSORIES 152

FLOOR TRAPS 155

GROUP THERMOSTATIC MIXING VALVES 155
Disposable shower kit
With coloured conical unions, monojet handset

Ideal for hospitals:
• Disposable kit: enables regular changing.
• Flexible hose has smooth interior and exterior: easy to maintain with fewer bacterial niches.
• Coloured conical unions: provide clear visual indication and help to ensure correct shower kit replacement.

Disposable shower kit includes:
• 25 white PVC flexible hoses L. 1.50m with coloured ABS conical unions: blue or yellow.
• 25 white shower heads Ø 70mm, monojet: rain effect.

Disposable shower kits, monojet

<table>
<thead>
<tr>
<th>25 yellow kits</th>
<th>809Y.25P</th>
</tr>
</thead>
<tbody>
<tr>
<td>25 blue kits</td>
<td>809B.25P</td>
</tr>
</tbody>
</table>

Chrome-plated shower kit Ø 22mm
With monojet handset

• Chrome-plated cut-to-size stainless steel shower rail Ø 22mm, overall length 700mm with 620mm centres.
• Shower head holder can be adjusted in height and tilted.
• Transparent soap dish.
• Smooth, BICOLOR PVC flexible hose L. 1.50m.
• Scale-resistant shower head Ø 70mm in chrome-plated ABS, monojet: rain effect.

Shower kit Ø 22mm, monojet 801

Chrome-plated shower kit Ø 25mm
With monojet handset

• Chrome-plated cut-to-size stainless steel shower rail Ø 25mm, overall length 580mm with 540mm centres.
• Shower head holder can be adjusted in height and tilted.
• Chrome-plated soap dish.
• Smooth, BICOLOR PVC flexible hose L. 1.50m.
• Scale-resistant shower head Ø 100mm in chrome-plated ABS, monojet: rain-effect.
• Shower hose retaining collar (see page 154).

Shower kit Ø 25mm, monojet 806

Chrome-plated shower kit Ø 25mm
With 5-jet handset

• Chrome-plated cut-to-size stainless steel shower rail Ø 25mm, overall length 580mm with 540mm centres.
• Shower head holder can be adjusted in height and tilted.
• Chrome-plated soap dish. Smooth, BICOLOR PVC flexible hose L. 1.50m.
• Scale-resistant shower head Ø 100mm in chrome-plated ABS, 5 options: rain-effect, massage, bubble-effect, rain-effect + massage, rain-effect + bubbles.
• Shower hose retaining collar (see page 154).

Shower kit Ø 25mm, 5 jets 803
**Hydrotherapy accessories**  
**Shower rails / DELABIE**

### Chrome-plated shower rail Ø 22mm

- With soap dish

<table>
<thead>
<tr>
<th>Chrome-plated shower rail Ø 22mm</th>
<th>820</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Chrome-plated cut-to-size stainless steel shower rail Ø 22mm, overall rail length 700mm with 620mm centres.</td>
<td></td>
</tr>
<tr>
<td>• Shower head holder can be adjusted in height and tilted.</td>
<td></td>
</tr>
<tr>
<td>• Transparent soap dish.</td>
<td></td>
</tr>
</tbody>
</table>

### Chrome-plated shower rail Ø 25mm

- With soap dish

<table>
<thead>
<tr>
<th>Chrome-plated shower rail Ø 25mm</th>
<th>821</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Chrome-plated cut-to-size stainless steel shower rail Ø 25mm, overall rail length 580mm with adjustable centres up to 540mm.</td>
<td></td>
</tr>
<tr>
<td>• Shower head holder can be adjusted in height and tilted.</td>
<td></td>
</tr>
<tr>
<td>• Shower hose retaining collar (see page 154).</td>
<td></td>
</tr>
<tr>
<td>• Chrome-plated soap-dish.</td>
<td></td>
</tr>
</tbody>
</table>

### Stainless steel shower rail Ø 32mm

<table>
<thead>
<tr>
<th>Stainless steel shower rail Ø 32mm</th>
<th>5460P2</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Bacteriostatic 304 stainless steel rail Ø 32mm, 1150mm centres.</td>
<td></td>
</tr>
<tr>
<td>• Uniform non-porous surface for easy maintenance and hygiene.</td>
<td></td>
</tr>
<tr>
<td>• Chrome-plated metal shower head holder with ergonomic handle.</td>
<td></td>
</tr>
<tr>
<td>• Concealed fixings. CE marked.</td>
<td></td>
</tr>
</tbody>
</table>

### Nylon shower rail Ø 32mm

<table>
<thead>
<tr>
<th>Nylon shower rail Ø 32mm</th>
<th>5460N</th>
</tr>
</thead>
<tbody>
<tr>
<td>• High strength polyamide rail (Nylon) Ø 32mm, 1150mm centres.</td>
<td></td>
</tr>
<tr>
<td>• Uniform non-porous surface for easy maintenance and hygiene.</td>
<td></td>
</tr>
<tr>
<td>• Good resistance to chemical products and cleaning.</td>
<td></td>
</tr>
<tr>
<td>• Anti-UV treatment. Warm to the touch.</td>
<td></td>
</tr>
<tr>
<td>• HR Nylon sliding shower head holder with ergonomic handle.</td>
<td></td>
</tr>
<tr>
<td>• Concealed fixings. CE marked.</td>
<td></td>
</tr>
</tbody>
</table>

---

**Stainless steel shower rail Ø 32mm**

<table>
<thead>
<tr>
<th>Stainless steel shower rail Ø 32mm</th>
<th>5460P2</th>
</tr>
</thead>
<tbody>
<tr>
<td>UltraPolish bright polished stainless steel</td>
<td></td>
</tr>
<tr>
<td>UltraSatin polished satin stainless steel</td>
<td>5460S</td>
</tr>
<tr>
<td>Option: clip-on sliding soap dish (see page 154)</td>
<td></td>
</tr>
</tbody>
</table>

**Nylon shower rail Ø 32mm**

<table>
<thead>
<tr>
<th>Nylon shower rail Ø 32mm</th>
<th>5460N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Option: clip-on sliding soap dish (see page 154)</td>
<td></td>
</tr>
</tbody>
</table>
**DELABIE / Hydrotherapy accessories Shower heads**

**Monojet shower head Ø 70mm**
*Scale-resistant*

- **M½” shower head.**
- **Chrome-plated ABS.**
- **Monojet:** rain effect.
- **Manual system for removing limescale.**

![Monojet shower head Ø 70mm](image)

**Monojet shower head Ø 100mm**
*Scale-resistant*

- **M½” shower head.**
- **Chrome-plated ABS.**
- **Monojet:** rain effect.
- **Manual system for removing limescale.**

![Monojet shower head Ø 100mm](image)

**Shower head with 5 jets Ø 100mm**
*Scale-resistant*

- **M½” shower head.**
- **Chrome-plated ABS.**
- **5 jets:** rain effect, massage, bubble-effect, rain effect + massage, rain effect + bubbles.
- **Manual system for removing limescale.**

![Shower head with 5 jets Ø 100mm](image)

**Shower head with 2 jets Ø 60mm**

- **M½” shower head.**
- **Chrome-plated ABS.**
- **2 jets with inverter:** rain effect and massage.

![Shower head with 2 jets Ø 60mm](image)

**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 page 27).

![Anti-bacterial BIOFIL shower head](image)

**Push-button hand spray**
*Downward jet*

- **Push-button hand spray M½”.**
- **Chrome-plated brass and white polypropylene.**
- **Order a chrome-plated brass wall hook** ref. 1585 to complete (see page 161).

![Push-button hand spray](image)

---

**10 BIOFIL shower heads**

**Threaded shower heads**

<table>
<thead>
<tr>
<th>Type</th>
<th>Ref.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sterile CE</td>
<td>20061.10P</td>
</tr>
<tr>
<td>Non-sterile CE</td>
<td>30061.10P</td>
</tr>
</tbody>
</table>

**Clip-in shower heads**

<table>
<thead>
<tr>
<th>Type</th>
<th>Ref.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sterile CE</td>
<td>20060.10P</td>
</tr>
<tr>
<td>Non-sterile CE</td>
<td>30060.10P</td>
</tr>
</tbody>
</table>
**Hydrotherapy accessories**  Shower hoses / DELABIE

### Stainless steel flexible shower hose
Flexible hose FF½” L. 1.50m

- **Double fastened stainless steel** for intensive use with twist-preventing union on shower end.
- **Interior tube** is certified food-grade PVC, conforms to European standard EN 1113.
- **Chrome-plated conical brass connectors** ½”.
- **Will withstand strain (50kg), bending and twisting.**

### SILVER flexible shower hose
Smooth, PVC flexible hose FF½”

- **Smooth, metal effect, reinforced food-grade PVC hose** for easy maintenance and to reduce bacterial development.
- **PVC pipe reinforced by polyester threads** conforms to European standard EN 1113.
- **Tube interior** is made from food-grade PVC.
- **Chrome-plated conical brass connectors** ½”.
- **Will withstand strain (50kg), bending and twisting.**

### BICOLOR flexible shower hose
Smooth, PVC flexible hose FF½”

- **Smooth, metalloplastic food-grade PVC hose** for easy maintenance and to reduce bacterial development.
- **PVC pipe reinforced by polyester threads** conforms to European standard EN 1113.
- **Tube interior** is made from food-grade PVC.
- **Chrome-plated conical brass connectors** ½”.
- **Will withstand strain (50kg), bending and twisting.**

---

### Polyamide flexible shower hose
Black flexible hose FF½”

- **Universal food-grade black EPDM flexible hose** L. 1.50m reinforced with Polyamide threads conforms to European standard EN 1113.
- **Metal conical union** ½” and milled metal union ½”.
- **Will withstand strain (50kg), bending and twisting.**

---

### Nylon flexible hose
For retracting hand sprays

- **Black flexible hose** L. 1.50m with counterweight for retracting hand sprays (see ref. 2597 page 82).
- **Metal conical union** F½” and metal cylindrical union M15 x 1.

---

### Polyurethane transparent hose
For retracting hand sprays

- **BIOSAFE flexible hose** L. 1.60m reduces bacterial proliferation, for retracting hand sprays (except ref. 2597).
- **Transparent** PU polyurethane flexible hose, with smooth interior and exterior, low water volume (interior Ø 6mm).
- **Metal conical union** F½”.

---

**Stainless steel shower hose**
L. 1.50m 832T1

**SILVER flexible shower hose**
L. 0.85m 836T3  L. 1.50m 836T1  L. 2.00m 834T2

**BICOLOR flexible shower hose**
L. 0.85m 834T3  L. 1.50m 834T1  L. 1.20m 834T4  L. 1.50m 834T1  L. 2.00m 834T2

**Polyamide flexible shower hose**
L. 1.50m 830T1

**Nylon flexible hose**
L. 1.50m 837T4

**PU flexible hose for retracting hand sprays**
L. 1.60m 837T4

---

**Shower fittings** 151
**Auto-draining device**

For showers and shower-bath mixers

- Automatically drains the shower head and flexible hose.
- Prevents water stagnation and reduces bacterial development (for more information, see page 139).
- Chrome-plated solid brass body with downstream purge.
- Inlet F½” with filter (to connect to the bottom outlet of the mixer).
- Outlet M½” (to connect to the flexible hose).

We recommend using the auto-draining device with a short flexible hose (ref. 83473 or 83673, page 151)

**STOP/CHECK connectors**

Wall-mounted connectors M½” M¾”

- Chrome-plated brass connectors Ø 65mm for wall-mounted mixers.
- M½” M¾”.
- Supplied in packs of 2.
- Ideal for hospitals.

Connectors include:
- **Manual escutcheon control:** stopcock position and/or purge.
- **Stopcocks:** (STOP function):
  - Allow shut-off of the water supply so that the mixer can be easily removed for de-scaling, cleaning or maintenance.
  - Allow automatic anti-scalding safety to be checked on SECURITHERM thermostatic and EP pressure-balancing mixers.
- **Purge system:** (CHECK function):
  - Allows non-return valves to be checked on the respective mixer (DELABIE patent).

**Standard connectors**

Wall-mounted connectors M½” M¾”

- Chrome-plated standard connectors for wall-mounted mixers.
- M½” M¾”.
- Supplied in packs of 2.

**Auto-draining device**

- Chrome-plated standard connectors for wall-mounted mixers.
- Centres 11mm, L. 50, Ø 64
  - 856794.2P
- Centres 11mm, L. 60, Ø 70
  - 856027.2P
- Centres 12mm, L. 60, Ø 70
  - 856027.2P
- In-line fast-fix, L. 36mm
  - 845527.2P

---

**STOP/CHECK connectors**

Offset connectors 855755.2P

In-line connectors 855755UK.2P

---

**Standard connectors**

<table>
<thead>
<tr>
<th>Centres 11mm, L. 50, Ø 64</th>
<th>856794.2P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Centres 11mm, L. 60, Ø 70</td>
<td>856027.2P</td>
</tr>
<tr>
<td>Centres 12mm, L. 60, Ø 70</td>
<td>856027.2P</td>
</tr>
<tr>
<td>In-line fast-fix, L. 36mm</td>
<td>845527.2P</td>
</tr>
</tbody>
</table>
**Connectors / DELABIE**

**Diverter**
- Allows user to choose between the shower head or the hand held shower head/hand spray.
- Chrome-plated brass.
- 1/4" inlet.

**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.

**Reinforced exposed connector**
**For M1/2" stopcocks**
- Reinforced chrome-plated brass exposed connector.
- Ø 14mm stud nut.
- M1/2".
- Fixed by 2 screws (supplied).

**Wall-mounted elbow outlet**
**For flexible shower hoses**
- Wall-mounted elbow outlet.
- Chrome-plated solid brass.
- Wall plate Ø 50mm.
- M1/2".

**Column connectors**
**For deck-mounted shower-bath mixers**
- Solid brass connectors.
- M1/2" M3/4".
- Supplied in packs of 2.

**Rapid push-fit STOP connector**
**For shower panels**
- Rapid push-fit STOP connector.
- For attaching flexible hose to shower panel.

---

**Connectors**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>868121</td>
<td>Wall-mounted elbow outlet</td>
</tr>
<tr>
<td>260020</td>
<td>Wall-mounted elbow outlet</td>
</tr>
<tr>
<td>260021</td>
<td>Wall-mounted elbow outlet</td>
</tr>
<tr>
<td>291AH75</td>
<td>Connectors with non-return valves</td>
</tr>
<tr>
<td>151AH75</td>
<td>Connectors with non-return valves</td>
</tr>
<tr>
<td>841315</td>
<td>Reinforced exposed connector</td>
</tr>
<tr>
<td>868127.2P</td>
<td>Rapid push-fit STOP connector</td>
</tr>
<tr>
<td>870027.2P</td>
<td>Rapid push-fit STOP connector</td>
</tr>
<tr>
<td>865127.2P</td>
<td>Column connectors</td>
</tr>
<tr>
<td>807792</td>
<td>Column connectors</td>
</tr>
<tr>
<td>807792</td>
<td>Column connectors</td>
</tr>
<tr>
<td>865127.2P</td>
<td>Column connectors</td>
</tr>
</tbody>
</table>

---

**Additional Information**

**Connectors with non-return valves**
- For flexibles M1/2" C291AH75
- For flexibles M3/8" C151AH75

**Reinforced exposed connector**
- Supplied in packs of 2.

**Wall-mounted elbow outlet**
- Rapid push-fit STOP connector.
- For attaching flexible hose to shower panel.

**Column connectors**
- With escutcheon, H. 64mm 865127.2P
- Deluxe, no escutcheon, H. 70mm 870027.2P
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.

Wall-mounted soap dish

- Concealed fixings.
- Support fixed to the wall by 4 screws.
- Chrome-plated Bayblend®.
- Matte or bright finish.

Shower head retaining collar

- Retaining device: prevents shower head from coming into direct contact with the floor or the floor trap (source of bacterial niches).
- Retaining collar for shower rails and hoses.
- For grab bars Ø 25 to 35mm.

Clip-on soap dish

| Translucent | 510120 |
| White Nylon | 510120N |

Tilting, wall-mounted support

For shower heads

- Chrome-plated support.
- Tilting.
- Fixings supplied.

Shelf

For shower mixers

- Chrome-plated shelf ideal for dual control thermostatic shower mixers (see H9769 and H9741 ranges, pages 112-115).
- Body hygiene products can be placed on shelf (shower gel, shampoo, etc.).

Extension

For shower panels

- For shower panels.
- Protects the pipework between the top of the shower panel and the ceiling.
- Cut-to-size extension for anodised aluminium versions, adjustable from 350 to 550mm for satin finish stainless steel versions.

PROVISIONAL AVAILABILITY 1st half 2020.
Please contact sales office to check availability.

Wall-mounted soap dish

| Matte finish | 710500 |
| Bright finish | 710501 |

Retaining collar

| 830 |

Extension

| Aluminium, L. 210mm, H. 1000mm | 790152 |
| Stainless steel, L. 218mm | 790153 |
Flow rate 36 lpm (meets standards).
- Water level 90mm.
- Bright polished stainless steel plate and grid.
- Horizontal outlet Ø 40mm integrated into the height of the floor trap.
- Withstands high temperatures: 80°C continuous, 85°C peak.
- Height adjusts with extension.

Floor trap for tiled or concrete floors

• Flow rate 36 lpm (meets standards).
• Water level 90mm.
• Bright polished stainless steel grid Ø 114mm.
• Horizontal outlet Ø 40mm integrated into the height of the floor trap.
• Withstands high temperatures: 80°C continuous, 85°C peak.
• Height adjusts up to 85mm with extension.

Floor trap for soft or vinyl floors

• Flow rate 18 lpm.
• Water level 19mm.
• Brass body 140 × 140mm.
• Bright polished stainless steel grid fixed by a stainless steel screw.
• PVC bell.
• Vertical outlet Ø 40mm (provide elbow for horizontal outlets).

Floor trap for tiled or concrete floors

• Flow rate 36 lpm (meets standards).
• Water level 90mm.
• Bright polished stainless steel plate and grid.
• Horizontal outlet Ø 40mm integrated into the height of the floor trap.
• Withstands high temperatures: 80°C continuous, 85°C peak.
• Height adjusts up to 85mm with extension.

Floor trap for soft or vinyl floors Ø 114mm

• Flow rate 36 lpm (meets standards).
• Water level 90mm.
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• Horizontal outlet Ø 40mm integrated into the height of the floor trap.
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Floor trap for tiled or concrete floors 140 × 140mm

• Flow rate 18 lpm.
• Water level 19mm.
• Brass body 140 × 140mm.
• Bright polished stainless steel grid fixed by a stainless steel screw.
• PVC bell.
• Vertical outlet Ø 40mm (provide elbow for horizontal outlets).

Floor trap for soft or vinyl floors Ø 114mm

PREMIX SECURITY Group mixer for circulating loops

• Anti-scalding safety.
• Regulates temperature variations.
• Filters and non-return valves can be accessed from the outside without removing the mechanism.
• Interchangeable cartridge with thermostatic cell.
• Maximum temperature limiter, can be adjusted by the installer. Thermal shocks are possible.
• Reduced risk of scalding by reducing the temperature at the point-of-use.

PREMIX COMFORT Group mixing valve for mixed water

• Anti-scalding safety.
• Regulates temperature variations.
• Filters and non-return valves can be accessed from the outside without removing the mechanism.
• Interchangeable cartridge with thermostatic cell.
• Maximum temperature limiter, can be adjusted by the installer. Thermal shocks are possible.
• Reduced risk of scalding by reducing the temperature at the point-of-use.

ECONOMIX Thermostatic mixing valve

• For up to 4 taps or 3 showers (depending on model).
• Anti-scalding safety: automatic shut-off if hot or 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.
Water controls for bed pan cleaners

COMPLETE KITS
160

ADDITIONAL FITTINGS
161
**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’s 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’s 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 outside) making them easy to clean and reducing bacterial retention.

**EASY TO USE**

Pressurise DELABIE’s 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.

**AND ALSO...**

**Ergonomics**
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.
BACKFLOW PREVENTION DEVICE AND INTEGRATED NON-RETURN VALVE
Contamination prevention

STOPCOCK
Pressurises the valve or shuts off the supply in ¼-turn

SMOOTH, OPAQUE FLEXIBLE HOSE
Guaranteed hygiene

ERGONOMIC, NON-SLIP SLEEVE AND LEVER
Easy to grip

WALL-MOUNTED SUPPORT
Easy to install

REMOVABLE FLOW STRAIGHTENER
Guaranteed hygiene

ROTATING NUT
Prevents the flexible twisting

Displayed model: HOSPITAL bed pan cleaner (ref. 2591)
**DELABIE / Bed pan cleaner with stopcock**

- **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
- **Ergonomics**: 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 FF\(\frac{3}{4}\)”, 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.

**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 FF\(\frac{3}{4}\)”, L. 0.8m.
- **HYGIÉNA hand spray** with removable nozzle at a 65° angle.
- Standard trigger-operated hand spray.
- White wall-mounted hook with screw.

**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 FF\(\frac{3}{4}\)”, L. 0.8m.
- **Push-button hand spray**.
- Chrome-plated brass wall-mounted hook.

---

**HOSPITAL bed pan cleaner with stopcock**

| Standard hand spray | 2591 |
| Inverted hand spray | 2592 |

**HYGIÉNA bed pan cleaner with stopcock**

| D275065 |

**Push-button bed pan cleaner with stopcock**

| D275058 |
Hand spray
• Hand spray with removable nozzle: HOSPITAL, nozzle at a 30° angle, HYGIÉNA, nozzle at a 65° angle or push-button hand spray.
• Chrome-plated brass and white polypropylene.
• White wall-mounted hook with screw for HOSPITAL and HYGIÉNA models.
• Order with a chrome-plated brass wall hook ref. 1585 to complete (see below).

Hand spray for bed pan cleaner
<table>
<thead>
<tr>
<th></th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>HOSPITAL standard hand spray</td>
<td>434000</td>
</tr>
<tr>
<td>HOSPITAL inverted hand spray</td>
<td>15846</td>
</tr>
<tr>
<td>HYGIÉNA hand spray</td>
<td>434065</td>
</tr>
<tr>
<td>Push-button hand spray</td>
<td>434182</td>
</tr>
</tbody>
</table>

M½" 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.

Reinforced flexible hose FF½"
White PVC flexible hose
• Opaque, reinforced flexible hose FF½" prevents the development of germs or algae.
• Rotating nuts FF½" prevent the flexible from twisting.
• Pre-mounted unions provide a waterproof seal.

Hand spray for bed pan cleaner
<table>
<thead>
<tr>
<th></th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>HOSPITAL standard hand spray</td>
<td>434000</td>
</tr>
<tr>
<td>HOSPITAL inverted hand spray</td>
<td>15846</td>
</tr>
<tr>
<td>HYGIÉNA hand spray</td>
<td>434065</td>
</tr>
<tr>
<td>Push-button hand spray</td>
<td>434182</td>
</tr>
</tbody>
</table>

Reinforced exposed connector
For M½" stopcocks
• Reinforced chrome-plated brass exposed connector.
• Ø 14mm stud nut.
• MF½".
• Fixed by 2 screws (supplied).

Reinforced white PVC flexible hose FF½"
<table>
<thead>
<tr>
<th>Length</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>L. 0.80m</td>
<td>434080</td>
</tr>
<tr>
<td>L. 1.00m</td>
<td>1583</td>
</tr>
<tr>
<td>L. 1.25m</td>
<td>434125</td>
</tr>
</tbody>
</table>

Wall-mounted hook
For push-button hand spray
• For surface mounting.
• Chrome-plated brass.
• For push-button hand spray ref. 434182 (see above).

Wall-mounted hook 1585

Reinforced exposed connector
841315

Wall-mounted wall plate
Moulded
• Chrome-plated solid brass wall plate.
• Ø 60mm.
• Supplied in packs of 2.

Wall-mounted wall plate 292015.2P
WC valves
Frame systems for WCs

WC VALVES
168

WC FRAME SYSTEMS
176

ADDITIONAL FITTINGS
FOR WCs
184
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 washrooms.

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 always available, even for successive flushes, solving the problems of 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 environmental labels
Reinforced mechanisms reduce the risk of leaks. The TEMPOFLUX 2 and TEMPOFLUX 3 ranges with 3L/6L dual flush optimise water consumption. The flush volume can be adjusted to 2L/4L for ECO pans, achieving the highest performance standards for international labels.

Vandal-resistant
The mechanisms and controls are shock-resistant and have no fragile plastic parts. The fixings are concealed.

Minimal servicing and simple 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.

Reliability and superior endurance
DELABIE’s flush valve mechanisms are hard-wearing. The hydraulic timing system with 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’s flush valves perform to the highest standards. Each model is subjected to endurance tests under extreme conditions in endurance laboratories.

Comfort
The low acoustic level of the TEMPOFLUX 2 and TEMPOFLUX 3 complies with European standard EN 12541 class II. These ranges feature soft-touch operation, which allows all types of users to activate the flush easily. The TEMPOMATIC electronic versions avoid any manual contact and require no effort to operate (children, the elderly or people with reduced mobility).

Supply pipe diameters
The supply pipe diameters for direct flush are similar to cistern systems. Please see our recommendations below.

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 pipework diameter calculations for direct flush are different to those for cistern flush valves.
The following method is recommended:

<table>
<thead>
<tr>
<th>Number of valves installed</th>
<th>Number of valves used simultaneously</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 valves</td>
<td>1 valve</td>
</tr>
<tr>
<td>4 - 12 valves</td>
<td>2 valves</td>
</tr>
<tr>
<td>13 - 24 valves</td>
<td>3 valves</td>
</tr>
<tr>
<td>25 - 50 valves</td>
<td>4 valves</td>
</tr>
<tr>
<td>&gt; 50 valves</td>
<td>5 valves</td>
</tr>
</tbody>
</table>

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 manufacturer’s 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".
**ADVANTAGES OF DIRECT FLUSH**

- **VANDAL-RESISTANT:** shock-resistant mechanisms, concealed fixings
- **WATER SAVINGS:** 3L/6L dual flush, can be adjusted to 2L/4L
- **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
- **MINIMAL SERVICING:** scale-resistant mechanisms
- **HYGIENE:** no water stagnation, scale build-up or impurity deposits
- **FLUSH IMMEDIATELY AVAILABLE:** successive flushes are possible

**THE CISTERN: DESIGNED FOR DOMESTIC USE**

The cistern, designed for domestic use, is not suitable for public and 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€/year, source: Centre d’information de l’eau, France).

**Difficult to service**

Cistern maintenance in public and commercial buildings is not easy: removal and access to the mechanism is difficult and increasingly regular interventions are required.

**Lack of hygiene**

Cistern systems provide niches where bacteria can develop: stored water in the cistern stagnates and can rapidly lead to the development of bacteria which then spread through the rest of the system.

**DISADVANTAGES OF CISTERSNS FOR PUBLIC AND COMMERCIAL USE**

- **TIME TAKEN TO REFILL THE TANK:** immediate, successive flushes are not possible
- **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
- **FRAGILE:** plastic mechanism and cistern
- **RISK OF LEAKS FROM THE CISTERN INTO THE PAN**
TEMPOMATIC DUAL CONTROL RECESSED: 100% WATERPROOF RECESSING HOUSING, MODULAR AND ADAPTABLE

Hygiene
The TEMPOMATIC dual control flush can be activated voluntarily via the push-button, or failing that, automatically when the user leaves. This dual control guarantees permanent hygiene for the WC pan, even if the user forgets or neglects to flush the WC. The duty flush prevents bacterial proliferation and ensures that the pipework is flushed every 24 hours when not in use.

Water savings
DELABIE has developed an "intelligent" rinse function in the automatic mode. The system can distinguish between the need for a short rinse or a longer flush (3L/6L can be adjusted to 2L/4L).

Quick and easy to install
There are multiple installation options for the housing: fixing via the sides onto plasterboard rails, from the front onto a solid wall, or from the rear onto a panel. The cut-to-size housing is the only product available that can adjust to thick walls as well as thin partition walls. It can be installed on walls up to 120mm: bricks or concrete blocks for public and commercial installations subject to high levels of vandalism.

Waterproof recessing
Standard housings on the market are designed to be cut to size flush to the wall, which increases the risk of leaks between the wall and collar. DELABIE has developed a housing that can be cut to size in front of the collar, which ensures a perfect seal. The waterproof seal is integrated into the collar. The installer does not need to apply anything else (silicone, jointing compound, PTFE, etc.). The housing has notches to clip the collar onto and fix it in place easily (patented system).

Minimal servicing and simple to maintain
The electronic unit, activation unit and stopcock are all accessible from the front. Simply remove the wall plate to gain access.

Design
The TEMPOMATIC dual control wall plate has a timeless design, available in satin finish stainless steel with a chrome-plated metal push-button. Thanks to its sleek lines, it fits perfectly in any type of public and commercial building. Its smooth surface limits the build-up of dirt and facilitates cleaning. This new concept combines design and functionality: the electronics are integrated directly in the wall plate.

DELABIE / Electronic WC controls TEMPOMATIC dual control

One product for all types of installation
(adjustable fins)

Plasterboard rails

Solid walls

Panels

Electronic unit

Temporary cap

ADJUSTABLE, WATERPROOF HOUSING

Thick wall finish
Max. 120mm

Narrow wall finish
Min. 10mm

Collar with integrated waterproof seal

Secure system flush

Secure system flush
WATERPROOF HYDRAULIC CONNECTION
Standard pipe or “pipe-in-pipe”

FINS CAN BE ADJUSTED ACCORDING TO INSTALLATION TYPE
Easy to install

NOTCHES TO CLIP AND FIX COLLAR ONTO (patented)
Easy to install

VALVE CAN BE CONNECTED FROM THE OUTSIDE
Easy to install

VALVE CAN BE DISCONNECTED FROM THE INSIDE
Simple to maintain

STOPOCK CAN BE ACCESSED FROM THE FRONT
Simple to maintain

ELECTRONIC UNIT CAN BE ACCESSED FROM THE FRONT
Simple to maintain

HOUSING CAN BE CUT TO SIZE
Adjusts to fit wall finishes up to 120mm

BACKFLOW PREVENTION DEVICE
Inside the housing

COLLAR WITH INTEGRATED SEAL
Completely waterproof

ANTI-BLOCKING ACTIVATION UNIT CAN BE ACCESSED FROM THE FRONT
Simple to maintain

STAINLESS STEEL WALL PLATE WITH INTEGRATED ELECTRONICS
Battery-operated model: batteries can be replaced without shutting off the water or removing the valve

INTELLIGENT AUTOMATIC ACTIVATION
Guaranteed hygiene and water savings

PUSH-BUTTON
Voluntary activation

Displayed model: TEMPOMATIC dual control recessed (ref. 464PBOX + 464006)
DELABIE / Electronic WC controls TEMPOMATIC dual control

- **Hygiene**: automatic flush, no water stagnation (reduces bacterial development)
- **Comfort**: voluntary activation (push-button) or automatic flush
- **Efficiency and water savings**: direct flush reduces the risk of leaks, powerful flush is available instantly
- **Easy to install**: modular and adjustable waterproof housing (for walls and finishes)

**TEMPOMATIC dual control**

Electronic direct flush valve in a waterproof housing

- Battery-operated with 123 6V Lithium batteries or 230/6V mains supply (cable and transformer supplied).
- Satin finish stainless steel wall plate 186 x 186mm and chrome-plated metal button with integrated electronics.
- Waterproof recessing housing:
  - Collar with waterproof seal.
  - Hydraulic connection from the outside and maintenance from the front.
  - Adjusts to all types of installation (rails, solid walls, panels).
  - Compatible with wall finishes 10 - 120mm (while maintaining the minimum recessing depth of 93mm).
  - Suitable for standard or "pipe-in-pipe" supply.
  - Stopcock and flow rate adjustment, activation and electronic unit are all integrated and accessible from the front.
  - TEMPOMATIC F¾" flush valve is compatible with sea water and grey water.
  - Backflow prevention device inside the housing.
  - Supplied in 2 kits: secure system flush without sensitive elements.
  - Shock-resistant infrared presence detection sensor.
  - Detection delay is 10 seconds.
  - Voluntary activation (anti-blocking push-button) or automatically when the user leaves.
  - Independent push-button: the flush will activate even if the power supply fails.
  - "Intelligent" automatic rinsing (flush volume adapts according to use).
  - 3 programmes (rinsing volume can be set according to type of WC pan).
  - Hygienic duty flush, every 24 hours (can be adjusted to 12 hours or OFF) after the last use.
- Outlet connection for PVC tube Ø 26/32mm.
- Base flow rate: 1 L/sec.
- Suitable for rimless WC pans.

For version with TEMPOFIX 3 frame system: see page 176.

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Provisional availability 2nd half 2020.
Please contact sales office to check availability.

<table>
<thead>
<tr>
<th>TEMPOMATIC dual control WC flush valve in a waterproof housing</th>
<th>464PBOX + 464006</th>
</tr>
</thead>
<tbody>
<tr>
<td>6V battery-operated</td>
<td></td>
</tr>
<tr>
<td>230/6V mains supply</td>
<td>464SBOX + 464000</td>
</tr>
</tbody>
</table>

We recommend a flush tube (see page 184)
**TEMPOMATIC**

**Recessed electronic flush valve**

- Mains supply with 1” solenoid valve.
- 230/12V transformer.
- IP65 independent electronic unit.
- Housing recessed behind a satin finish stainless steel wall plate 320 × 220mm.
- Shock-resistant infrared presence detection sensor.
- **Voluntary activation** (when hand is moved towards the sensor, detection distance ~10cm) or **automatic flush** when the user leaves.
- **Time flow** ~7 seconds, 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.
- Base flow rate: 1 L/sec.
- Suitable for rimless WC pans.

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).

For version with TEMPOFIX 3 frame system: see page 177

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**TEMPOMATIC**

**Cross wall electronic flush valve**

- Mains supply with 1” solenoid valve.
- 230/12V transformer.
- IP65 independent electronic unit.
- **For cross wall installation.**
- Shock-resistant infrared presence detection sensor.
- **Voluntary activation** (when hand is moved towards the sensor, detection distance ~10cm) or **automatic flush** when the user leaves.
- **Time flow** ~7 seconds, 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.**
- **Base flow rate: 1 L/sec.**
- Suitable for rimless WC pans.
- Available without stopcock or backflow prevention device, for sea water compatible versions.

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).

**TEMPOMATIC WC recessed flush valve, sea water compatible**

- Mains supply with 1” solenoid valve.
- 230/12V transformer.
- IP65 independent electronic unit.
- Housing recessed behind a satin finish stainless steel wall plate 220 × 170mm.
- Shock-resistant infrared presence detection sensor.
- **Voluntary activation** (when hand is moved towards the sensor, detection distance ~10cm) or **automatic flush** when the user leaves.
- **Time flow** ~7 seconds, can be adjusted from 3 - 12 seconds.
- Detection distance, flow rate and flush volume can be adjusted.
- Suitable for rimless WC pans.
- **Sea water compatible.**
- **Available without stopcock or backflow prevention device, for sea water compatible versions.**

**TEMPOMATIC WC recessed flush valve**

- Mains supply with 1” solenoid valve.
- 230/12V transformer.
- IP65 independent electronic unit.
- Housing recessed behind a satin finish stainless steel wall plate 220 × 170mm.
- Shock-resistant infrared presence detection sensor.
- **Voluntary activation** (when hand is moved towards the sensor, detection distance ~10cm) or **automatic flush** when the user leaves.
- **Time flow** ~7 seconds, can be adjusted from 3 - 12 seconds.
- Detection distance, flow rate and flush volume can be adjusted.
- Suitable for rimless WC pans.
- **Sea water compatible.**

For version with TEMPOFIX 3 frame system: see page 177

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**Electronic WC controls TEMPOMATIC / DELABIE**

- **Hygiene:** automatic flush, no manual contact, no water stagnation (reduces bacterial development)
- **Comfort:** voluntary activation or automatic flush
- **Vandal-resistant:** cross wall or recessed installation
- **Efficiency and water savings:** direct flush reduces the risk of leaks, powerful flush is available instantly

---

**TEMPOMATIC WC recessed flush valve**

- **Option:** tamperproof screws (see page 208)

**TEMPOMATIC WC recessed flush valve, sea water compatible**

- **Option:** tamperproof screws (see page 208)
TEMPOFLUX 3 RECESSED:
100% WATERPROOF RECESSING HOUSING, MODULAR AND ADAPTABLE

**Water savings**
TEMPOFLUX 3 with 3L/6L dual flush optimises flushing and water consumption. The flush volume can be adjusted to 2L/4L to achieve the highest standards for international labels. For more information see page 17.

The AB anti-blocking device controls the flush volume regardless of how long the push-button is pressed for.

**Comfort**
Thanks to its soft-touch operation, TEMPOFLUX 3 can be used by all users (children, the elderly or people with reduced mobility). The acoustic level is low and complies with European standard EN 12541 class II.

**Quick and easy to install**
There are multiple installation options for the housing: fixing via the sides onto plasterboard rails, from the front onto a solid wall, or from the rear onto a panel. The cut-to-size housing is the only product available that can adjust to thick walls as well as thin partition walls. It can be installed on walls up to 120mm: bricks or concrete blocks for public and commercial installations subject to high levels of vandalism.

TEMPOFLUX 3 connects from the outside of the housing to a standard installation or a “pipe-in-pipe” connection. During installation the cartridge is replaced by a temporary cap to facilitate and secure the system flush, without risking any damage to this sensitive element.

**Resistant to intensive use and vandalism**
The wall plate will withstand extreme levels of demand. The fixings are concealed. Streamlined designs discourage attempts at vandalism. To prevent abuse or waste, TEMPOFLUX 3 is fitted with an AB anti-blocking system. This security feature prevents the valve from being blocked in the open position. The flush takes place only when the push-button is released.

**Waterproof recessing**
Standard housings on the market are designed to be cut to size flush to the wall, which increases the risk of leaks between the wall and collar. DELABIE has developed a housing that can be cut to size in front of the collar, which ensures a perfect seal. The waterproof seal is integrated into the collar. The installer does not need to apply anything else (silicone, jointing compound, PTFE, etc.). The housing has notches to clip the collar onto and fix it in place easily (patented system).

**Minimal servicing and simple to maintain**
The cartridge, activation unit and stopcock are all accessible from the front. Simply remove the wall plate to gain access. The flush volume can be adjusted (3L/6L or 2L/4L) directly on the rear of the wall plate without shutting off the water supply or removing the flush valve. Unlike other standard products on the market, TEMPOFLUX 3’s backflow prevention device is located inside the housing. In case of backflow, the water will evacuate in front of the wall via the housing, and not behind (or into) the wall. The flush valve is suitable for grey water and sea water. The flush valve can be disconnected and removed from the inside, without removing the housing, for in-depth maintenance or protecting from frost.

**Design**
The TEMPOFLUX 3’s wall plate has a timeless design, available in two finishes: satin finish stainless steel or chrome-plated metal. Thanks to its sleek lines, it fits perfectly in any type of public and commercial building. Its smooth surface limits the build-up of dirt and facilitates cleaning.
TEMPOFLUX 3
Time flow direct flush valve in a waterproof housing

• **Hygiene:** no water stagnation (reduces bacterial development)
• **Comfort:** soft-touch operation, low acoustic level complies with European standard EN 12541 class II
• **Efficiency and water savings:** direct flush reduces the risk of leaks, powerful flush is available instantly, dual flush 3L/6L
• **Easy to install:** modular and adjustable waterproof housing (for walls and finishes)

**Chrome-plated metal 170 × 170mm or satin finish stainless steel wall plate 210 × 162mm.**

**Waterproof recessing housing:**
- Collar with waterproof seal.
- Hydraulic connection from the outside and maintenance from the front.
- Adjusts to all types of installation (rails, solid walls, panels).
- Compatible with wall finishes 10 - 120mm (while maintaining the minimum recessing depth of 93mm).
- Suitable for standard or "pipe-in-pipe" supply.
- Stopcock and flow rate adjustment, activation unit and cartridge are all integrated and accessible from the front.
- TEMPOFLUX 3 F¾" flush valve is compatible with sea water and grey water.
- Backflow prevention device inside the housing.
- Supplied in 2 kits: secure system flush without sensitive elements.

**Soft-touch operation.**

**AB anti-blocking system:** water only flows when the push-button is released.

**Dual flush 3L/6L, can be adjusted to 2L/4L.**

**Outlet connection for PVC tube Ø 26/32mm.**

**Acoustic level complies with European standard EN 12541 class II.**

**Base flow rate:** 1 L/sec.

**Suitable for rimless WC pans.**

For version with TEMPOFIX 3 frame system: see page 181.

Provisional availability 1st half 2020.
Please contact sales office to check availability.

<table>
<thead>
<tr>
<th>TEMPOFLUX 3 flush valve in a waterproof housing</th>
<th>763BOX + 763040</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chrome-plated metal wall plate</td>
<td></td>
</tr>
<tr>
<td>Satin finish stainless steel wall plate</td>
<td></td>
</tr>
</tbody>
</table>

We recommend a flush tube (see page 184)
TEMPOFLUX 2 recessed time flow valve 762902 - 135° angled Be-Line® grab bar 511982C
**Time flow WC controls TEMPOFLUX 2 / DELABIE**

- **Hygiene**: no water stagnation (reduces bacterial development)
- **Comfort**: soft-touch operation, low acoustic level complies with European standard EN 12541 class II
- **Efficiency 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

- Chrome-plated metal wall plate Ø 195mm.
- Multipurpose recessing housing.
- Recessing depth can be adjusted 0 - 20mm.
- Available with 6L single flush or 3L/6L dual 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 M¾".
- Outlet connection for PVC tube Ø 26/32mm.
- Acoustic level complies with European standard EN 12541 class II.
- Base flow rate: 1 L/sec.
- Suitable for rimless WC pans.

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).

For version with TEMPOFIX 3 frame system: see pages 182-183.

**TEMPOFLUX 2 WC**
Cross wall time flow flush valve

- For walls ≤ 140mm.
- 3L/6L dual 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 M¾".
- Outlet connection for PVC tube Ø 26/32mm.
- Threaded rod can be cut to size.
- Acoustic level complies with European standard EN 12541 class II.
- Base flow rate: 1 L/sec.
- Suitable for rimless WC pans.

**TEMPOFLUX 2 recessed flush valve**

<table>
<thead>
<tr>
<th>3L/6L dual flush [DELABIE patented]</th>
<th>762902</th>
</tr>
</thead>
<tbody>
<tr>
<td>6L single flush</td>
<td>762901</td>
</tr>
</tbody>
</table>

**TEMPOFLUX 2 cross wall flush valve**

| 762150 |
**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 TEMPOFIX 3 version of the frame system, the floor quality is the main criteria: the concrete floor should withstand a minimum load of 350kg/m².

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 × ½" wall boards or 1 × 1" wall board).

**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 DELABIE's frame system is made from powder-coated steel. Its design provides it with an unrivalled resistance to deformation.

The French standard NF D12-208 requires that frame systems flex no more than 5mm when subjected to a uniformly distributed load of 400kg.

**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 storage and are an advantage for being kept on construction sites.

**Products suited to the needs of public and commercial places**
Increasingly in public and commercial places, plasterboard walls are being replaced by gypsum blocks, brick, or even cinder blocks in order to improve the durability of the installations.

The TEMPOFIX 3, equipped with a new waterproof recessing housing, functions electronically (TEMPOMATIC dual control) or with timed flow (TEMPOFLUX 3), and the one model can adjust to any type of wall finish from 10 - 120mm.

DELABIE has developed its range of TEMPOFLUX 2 direct flush valves, offering extended versions of the valves and frames so that they can be adjusted to thicker walls up to 130mm.

Such an innovative installation would prove difficult to achieve with cisterns.
DELABIE / Frame systems for WCs TEMPOFIX 3 with TEMPOMATIC dual control

- Hygiene: automatic flush, no water stagnation (reduces bacterial development)
- Specifically designed for public and commercial places: space saving, easy to clean, withstands intensive use
- Easy to install: frame system delivered pre-mounted, clip into place assembly
- Efficiency and water savings: direct flush reduces the risk of leaks, powerful flush is available instantly

TEMPOFIX 3 with TEMPOMATIC dual control
Frame system with electronic WC flush valve

- Black powder-coated steel frame.
- Frame height can be adjusted from 0 - 200mm (with 1m mark).
- Ø 32mm flush tube with Ø 55mm connection washer.
- Soil pipe:
  - PVC, Ø 100mm outlet to be glued onto the waterproof seal, with 2 setting positions (ref. 564065, 564005, 564060 and 564000).
  - ABS, with Ø 90mm HDPE sleeve connector (ref. 564065BE, 564005BE, 564060BE and 564000BE) or Ø 110mm (ref. 564065DE, 564005DE, 564060DE and 564000DE) with waterproof seal, with 2 setting positions.
- Delivered pre-mounted.
- Complies with French standard NF D12-208.
- Compatible with solid wall finishes from 10 - 120mm.

Available in 2 versions:
- Self-supporting frame system with large feet to fix to load-bearing floors.
- Wall-mounted frame system to fix to load-bearing walls.

Fitted with TEMPOMATIc dual control F¾" electronic direct flush valve:
- Battery-operated with 123 6V Lithium batteries or 230/6V mains supply (cable and transformer supplied).
- Satin finish stainless steel wall plate 186 x 186mm and chrome-plated metal button with integrated electronics.
- Waterproof recessing housing.
- Detection delay is 10 seconds.
- Voluntary activation (anti-blocking push-button) or automatically when the user leaves.
- "Intelligent" automatic rinsing (flush volume adapts according to use).
- 3 programmes (rinse volume can be set according to type of WC pan).
- Hygienic duty flush, every 24 hours (can be adjusted to 12 hours or OFF) after the last use.
- Backflow prevention device inside the housing.
- Integrated stopcock and flow rate adjuster.
- Compatible with sea water and grey water.

Technical characteristics: see TEMPOMATIC dual control page 168.

Provisional availability 2nd half 2020.
Please contact sales office to check availability.

<table>
<thead>
<tr>
<th>TEMPOFIX 3 with TEMPOMATIC WC dual control</th>
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<tbody>
<tr>
<td>Self-supporting model - 6V battery-operated</td>
</tr>
<tr>
<td>Self-supporting model - 230/6V mains supply</td>
</tr>
<tr>
<td>Wall-mounted version - 6V battery-operated</td>
</tr>
<tr>
<td>Wall-mounted version - 230/6V mains supply</td>
</tr>
</tbody>
</table>

For Ø 90mm (or 110mm) soil pipe outlet versions:
add "BE" or "DE" after the reference for kit 1
Options: wall fixings, sleeve connector and connection kit for disabled WC
(see page 184)
Frame systems for WCs TEMPOFIX 3 with TEMPOMATIC / DELABIE

- **Hygiene**: automatic flush, no manual contact, no water stagnation (reduces bacterial development)
- **Specifically designed for public and commercial places**: space saving, easy to clean, withstands intensive use
- **Easy to install**: frame system delivered pre-mounted
- **Efficiency and water savings**: direct flush reduces the risk of leaks, powerful flush is available instantly

### TEMPOFIX 3 with TEMPOMATIC
Frame system with electronic WC flush valve

- Black powder-coated steel frame.
- Frame height can be adjusted from 0 - 200mm (with 1m mark).
- Ø 32mm flush tube with Ø 55mm connection washer.
- Soil pipe:
  - PVC, Ø 100mm outlet to be glued onto the waterproof seal, with 2 setting positions (ref. 547005 and 547000).
  - ABS, with Ø 90mm HDPE sleeve connector (ref. 547005BE and 547000BE) or Ø 110mm (ref. 547005DE and 547000DE) with waterproof seal, with 2 setting positions.
- Delivered pre-mounted.
- Complies with French standard NF D12-208.
- Compatible with solid wall finishes from 26 - 130mm.

**Available in 2 versions:**
Self-supporting frame system with large feet to fix to load-bearing floors. Wall-mounted frame system to fix to load-bearing walls.

**Fitted with TEMPOMATIC F1+ electronic direct flush valve:**
- Mains supply with 1” solenoid valve.
- Satin finish stainless steel wall plate 320 x 220mm.
- IP65 independent electronic unit.
- 230/12V transformer.
- Shock-resistant infrared presence detection sensor.
- **Voluntary activation** when hand is moved towards the sensor, detection distance ~10cm or **automatically** when the user leaves.
- **Time flow ~7 seconds**, can be adjusted from 3 - 12 seconds.
- Integrated stopcock and flow rate / flush volume adjuster.
- Detection distance can be adjusted by the installer.

Technical characteristics: see TEMPOMATIC WC page 169.

<table>
<thead>
<tr>
<th>TEMPOFIX 3 with TEMPOMATIC WC</th>
<th>547005</th>
<th>546412</th>
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<tbody>
<tr>
<td>Self-supporting model</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wall-mounted version</td>
<td>547000</td>
<td>546412</td>
</tr>
</tbody>
</table>

**For Ø 90mm (or 110mm) soil pipe outlet versions:**
add "BE" (or "DE") after the reference for kit 1

**Options:** wall fixings, sleeve connector and connection kit for disabled WC (see page 184)
**A SINGLE PRODUCT**

**for wall thicknesses from 10 - 120mm**

**Dry walls (plasterboard):**
Min. 10mm thick.

**Semi-thick walls made from gypsum blocks:**

**Thick walls made from bricks or cinder blocks:**
Max. 120mm thick.

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**TEMPOFIX 3 WITH TEMPOFLUX 3**

**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 (soil pipe and housing) are assembled by clipping into place. The WC pan height is easy to adjust: a mark indicates the "1-metre" point from the floor surface to the frame system. It is quick and easy to install.

TEMPOFLUX 3 connects from the outside of the housing to a standard installation or a "pipe-in-pipe" connection. The housing can be cut to size to fit wall finishes up to 120mm: thick walls (bricks or cinder blocks) for public and commercial installations subject to high levels of vandalism.

**Secure system flush**
During installation the cartridge is replaced by a temporary cap to facilitate and secure the system flush, without risking any damage to this sensitive element.

**Design**
The TEMPOFLUX 3’s wall plate has a timeless design, available in satin finish stainless steel or chrome-plated metal. Thanks to its sleek lines, it fits perfectly in any type of public and commercial building.

**Water savings**
TEMPOFLUX 3 with 3L/6L dual flush optimises flushing and water consumption. The flush volume can be adjusted to 2L/4L, to achieve the highest standards for environmental labels. The AB anti-blocking device controls the flush volume regardless of how long the push-button is pressed for.

**Comfort**
Thanks to its soft-touch operation, TEMPOFLUX 3 can be used by all users (children, the elderly or people with reduced mobility). The acoustic level is low and complies with European standard EN 12541 class II.

**Minimal servicing and simple to maintain**
The cartridge, activation unit and stopcock are all accessible from the front. Simply remove the wall plate to gain access. The flush volume can be adjusted (3L/6L or 2L/4L) directly on the rear of the wall plate, without shutting off the water supply or removing the WC valve.

Unlike other standard products on the market, TEMPOFLUX 3’s backflow prevention device is located inside the housing. In case of backflow, the water will evacuate in front of the wall via the housing, and not behind (or into) the wall. The flush valve is suitable for grey water and sea water. The flush valve can be disconnected and removed from the inside, without removing the housing, for in-depth maintenance or protecting from frost.
HOUSING CAN BE CUT TO SIZE
Adjusts to fit solid wall finishes from 10 - 120mm

WATERPROOF HYDRAULIC CONNECTION
Standard pipe or "pipe-in-pipe"

1 METRE MARK
FROM FLOOR SURFACE
Easy to install

HOUSING FIXED BY CLIPS
Quick and easy to install

SPACE SAVING
350 x 180mm

TELESCOPIC FLUSH TUBE
Easy to install

PIPE AND SOIL PIPE FIXED
BY CLIPS
Quick and easy to install

180 OR 230MM CENTRES
suitable for all types of WC pan

PVC SOIL PIPE

ADJUSTABLE PAN HEIGHT
Easy to install

LARGE SELF-SUPPORTING FEET

VALVE CAN BE DISCONNECTED
FROM THE INSIDE
Easy to install and simple to maintain

CARTRIDGE AND STOPCOCK
Can be accessed from the front

AB ANTI-BLOCKING UNIT
Can be accessed from the front

BACKFLOW PREVENTION DEVICE
Inside the housing

STAINLESS STEEL WALL PLATE
DUAL FLUSH 3L/6L
Design and water savings

COLLAR WITH INTEGRATED SEAL
Completely waterproof

PLASTIC SHEATHS
protect the WC pan

Displayed model: self-supporting TEMPOFIX 3 with TEMPOFLUX 3 (ref. 564065 + 763000)
TEMPOFIX 3 frame system with TEMPOFLUX 3 direct flush time flow valve 564065 + 763000 - 135° Nylon grab bar 5081N - Nylon drop-down rail 5164N
Wall-mounted toilet brush set with ergonomic handle 4051N - U-shaped Nylon toilet roll holder 4081N
**Frame systems for WCs TEMPOFIX 3 with TEMPOFLUX 3 / DELABIE**

- **Hygiene**: no water stagnation (reduces bacterial development)
- **Specifically designed for public and commercial places**: space saving, easy to clean, withstands intensive use
- **Easy to install**: frame system delivered pre-mounted, clip into place assembly
- **Efficiency and water savings**: direct flush reduces the risk of leaks, powerful flush is available instantly, 3L/6L dual flush

**TEMPOFIX 3 with TEMPOFLUX 3**
Frame system with time flow WC flush valve

- Black powder-coated steel frame.
- Frame height can be adjusted from 0 - 200mm (with 1m mark).
- Ø 32mm flush tube with Ø 55mm connection washer.
- Soil pipe:
  - PVC, Ø 100mm outlet to be glued onto the waterproof seal, with 2 setting positions (ref. 564065, 564065, 564060 and 564000).
  - ABS, with Ø 90mm HDPE sleeve connector (ref. 564065BE, 564060BE and 564000BE) or Ø 110mm (ref. 564065DE, 564060DE and 564000DE) with waterproof seal, with 2 setting positions.
- Delivered pre-mounted.
- Complies with French standard NF D12-208.
- Compatible with solid wall finishes from 10 - 120mm.

Available in 2 versions:
Self-supporting frame system with large feet to fix to load-bearing floors.
Wall-mounted frame system to fix to load-bearing walls.

Fitted with a TEMPOFLUX 3 F¾" time flow direct flush valve:
- Satin finish stainless steel wall plate 210 x 162mm
  or chrome-plated metal wall plate 170 x 170mm.
- Waterproof recessing housing.
- Soft-touch operation.
- Dual flush 3L/6L, can be adjusted to 2L/4L.
- AB anti-blocking system.
- Backflow prevention device inside the housing.
- Acoustic level complies with European standard EN 12541 class II.
- Compatible with sea water and grey water.

Technical characteristics: see TEMPOFLUX 3 page 171.

---

**TEMPOFIX 3 with TEMPOFLUX 3**
With satin finish stainless steel wall plate

<table>
<thead>
<tr>
<th>Option</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Self-supporting model</td>
<td>564065</td>
</tr>
<tr>
<td>Wall-mounted version</td>
<td>564060</td>
</tr>
<tr>
<td>Wall-mounted version</td>
<td>564060</td>
</tr>
</tbody>
</table>

**With chrome-plated metal wall plate**

<table>
<thead>
<tr>
<th>Option</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Self-supporting model</td>
<td>564065</td>
</tr>
<tr>
<td>Wall-mounted version</td>
<td>564060</td>
</tr>
</tbody>
</table>

**For Ø 90mm (or 110mm) soil pipe outlet versions:**
add "BE" (or "DE") after the reference for kit 1

**Options**: wall fixings, sleeve connector and connection kit for disabled WC
(see page 184)
TEMPOFIX 3 with TEMPOFLUX 2
Frame system for narrow walls

- Black powder-coated steel frame.
- Frame height can be adjusted from 0 - 200mm (with 1mm mark).
- Ø 32mm flush tube with Ø 55mm connection washer.
- Soil pipe:
  - PVC, Ø 100mm outlet to be glued onto the waterproof seal, with 2 setting positions (ref. 578305, 578300, 578400 and 578405).
  - ABS, with Ø 90mm HDPE sleeve connector (ref. 578305BE, 578400BE and 578405BE) or Ø 110mm (ref. 578305DE, 578400DE and 578405DE) with waterproof seal, with 2 setting positions.
- Delivered pre-mounted.
- Complies with French standard NF D12-208.
- For walls from 10 - 35mm.

Available in 2 versions:
Self-supporting frame system with large feet to fix to load-bearing floors. Wall-mounted frame system to fix to load-bearing walls.

Fitted with TEMPOFLUX 2 time flow direct flush valve:
- Ø 195mm chrome-plated metal 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 shock-resistant, scale-resistant mechanism.
- In-line inlet M¾”.
- Acoustic level complies with European standard EN 12451 class II.

Technical characteristics: see TEMPOFLUX 2 page 175.
Frame systems for WCs TEMPOFIX 3 with TEMPOFLUX 2 / DELABIE

- **Hygiene**: no water stagnation (reduces bacterial development)
- **Specifically designed for public and commercial places**: space saving, easy to clean, withstands intensive use
- **Easy to install**: frame system delivered pre-mounted
- **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 solid walls from 30 - 60mm or thick walls from 70 - 130mm.**
- Available with 6L single flush or 3L/6L dual flush (can be adjusted to 2L/4L).

#### RECOMMENDATIONS

**For dry walls / plasterboard walls:**
Wall thickness: 10 - 35mm

**For semi-thick gypsum block walls:**
Wall thickness: 30 - 60mm

**For thick brick or cinder block walls:**
Wall thickness: 70 - 130mm

---

**TEMPOFIX 3 with TEMPOFLUX 2 for semi-thick walls from 30 - 60mm**

**Self-supporting model**

- 3L/6L dual flush (DELABIE patented)  578405 + 578222
- 6L single flush (6L flush, can be adjusted to 9L)  578405 + 578212

**Wall-mounted version**

- 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, solid walls from 70 - 130mm**

**Self-supporting model**

- 3L/6L dual flush (DELABIE patented)  578305 + 578230

**Wall-mounted version**

- 3L/6L dual flush (DELABIE patented)  578300 + 578230

---

*For Ø 90mm (or 110mm) soil pipe outlet versions: add “BE” (or “DE”) after the reference for kit 1*

**Options**: wall fixings, sleeve connector and connection kit for disabled WC (see page 184)
**DELABIE / Frame systems for WCs**

**Additional fittings**

### Cross wall / recessed flush tube for WC pans

- For TEMPOMATIC, TEMPOFLUX 2 and 3.
- PVC tube for recessed or cross wall installation.
- Ø 26/32mm (without connection washer).

![Cross wall / recessed flush tube for WC pans](image)

### Cross wall / recessed flush tube for WC pans

- For TEMPOMATIC, TEMPOFLUX 2 and 3.
- PVC tube, HDPE pipe.
- For recessed or cross wall installation on walls ≤ 60mm to fix the lug screw.
- Ø 26/32mm with connection washer.

![Cross wall / recessed flush tube for WC pans](image)

### Connection washer

- With clamp.
- Neck Ø 55mm.

![Connection washer](image)

### 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 installing if floors are non-load bearing.

![Wall fixings](image)

### Sleeve connector

- For horizontal evacuation.
- Ø 100/110mm.
- PVC or high-density polyethylene (HDPE).

![Sleeve connector](image)

### Connection kit for disabled WCs

- Extended supply tube Ø 32mm, L. 580mm.
- Ø 55mm connection washer.

![Connection kit for disabled WCs](image)

---

**TEMPOFIX 3 wall fixings**

- 578MUR

**Sleeve connector**

- PVC, Ø 100/100mm: 578100
- HDPE, Ø 100/90mm: 578090
- HDPE, Ø 100/110mm: 578110

**Connection washer**

- For tubes Ø 28mm: 705028
- For tubes Ø 32mm: 705000

---

**NEW**
SECURITHERM thermostatic mixer with BIOCLIP stainless steel spout with BIOFIL cartridge filter H9614P + 20051P.10P
Surgical scrub-up trough with upstand "Hygiene +" design 187000 + Stainless steel paper towel dispenser 6607D
Sanitary ware
Surgical scrub up trough
High or low upstand - "Hygiene +" design

• Wall-mounted surgical scrub up trough with 450mm upstand or 75mm upstand.
• Models with low upstand comply with the former HTM64 guidance and new Health Building Note 00-10: Part C - Sanitary Assemblies (ref. 18502015, 18602015 and 18702015).
• Bacteriostatic 304 stainless steel. Stainless steel thickness: 1.2mm.
• Smooth surface and rounded inside edges for easy cleaning.
• "Hygiene +" design: reduces niches where bacteria can develop, concealed trap, easy to clean.
• Drainage on the right. Without overflow. Supplied with fixing elements.
• Weight: version with high upstand: 20.3kg for the 700mm model; 34.4kg for the 1,400mm model; 48.5kg for the 2,100mm model. Version with low upstand: 15.6kg for the 700mm model; 17.2kg for the 800mm model; 26.6kg for the 1400mm model; 29.8kg for the 1,600mm model; 37.6kg for the 2100mm model; 42.5kg for the 2,400mm model.

Surgical scrub up trough with high upstand

<table>
<thead>
<tr>
<th>Without tap hole</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Polished satin 304 st steel - L. 700mm - 1 service</td>
<td>185000</td>
</tr>
<tr>
<td>Polished satin 304 st steel - L. 1,400mm - 2 services</td>
<td>186000</td>
</tr>
<tr>
<td>Polished satin 304 st steel - L. 2,100mm - 3 services</td>
<td>187000</td>
</tr>
</tbody>
</table>

With 1 single tap hole Ø 22mm per service

<table>
<thead>
<tr>
<th>With 1 single tap hole Ø 22mm per service</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Polished satin 304 st steel - L. 700mm - 1 service</td>
<td>185100</td>
</tr>
<tr>
<td>Polished satin 304 st steel - L. 1,400mm - 2 services</td>
<td>186100</td>
</tr>
<tr>
<td>Polished satin 304 st steel - L. 2,100mm - 3 services</td>
<td>187100</td>
</tr>
</tbody>
</table>

With 1 twin tap hole Ø 22mm with 150mm centres per service

<table>
<thead>
<tr>
<th>With 1 twin tap hole Ø 22mm with 150mm centres per service</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Polished satin 304 st steel - L. 700mm - 1 service</td>
<td>185200</td>
</tr>
<tr>
<td>Polished satin 304 st steel - L. 1,400mm - 2 services</td>
<td>186200</td>
</tr>
<tr>
<td>Polished satin 304 st steel - L. 2,100mm - 3 services</td>
<td>187200</td>
</tr>
</tbody>
</table>

Surgical scrub up trough with low upstand

<table>
<thead>
<tr>
<th>Without tap hole</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Polished satin 304 st steel - L. 700 - 1 service</td>
<td>185020</td>
</tr>
<tr>
<td>Polished satin 304 st steel - L. 1,400 - 2 services</td>
<td>186020</td>
</tr>
<tr>
<td>Polished satin 304 st steel - L. 2,100 - 3 services</td>
<td>187020</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Without tap hole (HTM64)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Polished satin 304 st steel - L. 800mm - 1 service</td>
<td>18502015</td>
</tr>
<tr>
<td>Polished satin 304 st steel - L. 1,600mm - 2 services</td>
<td>18602015</td>
</tr>
<tr>
<td>Polished satin 304 st steel - L. 2,400mm - 3 services</td>
<td>18702015</td>
</tr>
</tbody>
</table>

Available on request: other lengths (700mm - 2,400mm)

📅 : dispatch within 4 weeks
Stock item : stock item

188 Sanitary ware
Surgical scrub up trough
High or low upstand

- Wall-mounted surgical scrub up trough with 360mm upstand or 100mm upstand.
- Bacteriostatic 304 stainless steel.
  Stainless steel thickness: 1.2mm.
- Smooth surface and rounded inside edges for easy cleaning.
- Drainage on the right. Without overflow. Supplied with fixing elements.
- Weight: version with high upstand: 13.8kg for the 700mm model; 24.2kg for the 1,400mm model; 34.9 kg for the 2,100mm model.
Version with low upstand: 10.6kg for the 700mm model; 18.8kg for the 1,400mm model; 27kg for the 2,100mm.

### Surgical scrub up trough with high upstand

<table>
<thead>
<tr>
<th>With tap hole</th>
<th>Length</th>
<th>Services</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Without tap hole</td>
<td>L. 700mm</td>
<td>1 service</td>
<td>181000</td>
</tr>
<tr>
<td>Polished satin 304 st steel</td>
<td>L. 1,400mm</td>
<td>2 services</td>
<td>182000</td>
</tr>
<tr>
<td>Polished satin 304 st steel</td>
<td>L. 2,100mm</td>
<td>3 services</td>
<td>183000</td>
</tr>
<tr>
<td>With 1 single tap hole Ø 22mm per service</td>
<td>L. 700mm</td>
<td>1 service</td>
<td>181100</td>
</tr>
<tr>
<td>Polished satin 304 st steel</td>
<td>L. 1,400mm</td>
<td>2 services</td>
<td>182100</td>
</tr>
<tr>
<td>Polished satin 304 st steel</td>
<td>L. 2,100mm</td>
<td>3 services</td>
<td>183100</td>
</tr>
<tr>
<td>With 1 twin tap hole Ø 22mm with 150mm centres per service</td>
<td>L. 700mm</td>
<td>1 service</td>
<td>181200</td>
</tr>
<tr>
<td>Polished satin 304 st steel</td>
<td>L. 1,400mm</td>
<td>2 services</td>
<td>182200</td>
</tr>
<tr>
<td>Polished satin 304 st steel</td>
<td>L. 2,100mm</td>
<td>3 services</td>
<td>183200</td>
</tr>
</tbody>
</table>

### Surgical scrub up trough with low upstand

<table>
<thead>
<tr>
<th>Without tap hole</th>
<th>Length</th>
<th>Services</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polished satin 304 st steel</td>
<td>L. 700mm</td>
<td>1 service</td>
<td>181020</td>
</tr>
<tr>
<td>Polished satin 304 st steel</td>
<td>L. 1,400mm</td>
<td>2 services</td>
<td>182020</td>
</tr>
<tr>
<td>Polished satin 304 st steel</td>
<td>L. 2,100mm</td>
<td>3 services</td>
<td>183020</td>
</tr>
</tbody>
</table>

Available on request: other lengths (700mm - 2,400mm)

---

Stainless steel Surgical scrub up troughs / DELABIE

Sanitary ware 189
**DELABIE / Stainless steel Floor-standing disposal sinks**

**Janitorial unit**
Floor-standing

- Floor-standing janitorial unit.
- Complies with the former HTM64 guidance and new Health Building Note 00-10: Part C - Sanitary Assemblies.
- Bacteriostatic polished satin 304 stainless steel.
- Stainless steel thickness: 1mm.
- Smooth surface for easy cleaning.
- Adjustable feet height up to 40mm. Hinged stainless steel bucket grid.
- Supplied with 1½” waste. Without overflow.
- Weight: 10.6kg.

**Disposal sink**
Floor-standing

- Floor-standing disposal sink.
- Bacteriostatic polished satin 304 stainless steel.
- Stainless steel thickness: 1mm.
- One-piece pressed bowl, seam-free.
- Smooth surface for easy cleaning.
- Adjustable feet height up to 25mm. Hinged stainless steel bucket grid.
- Supplied with 1¼” waste for the basin and 1½” waste for the disposal sink. Without overflow.
- Weight: 22kg.
Stainless steel Floor-standing or wall-mounted disposal sinks / DELABIE

**XL disposal sink**
Floor-standing or wall-mounted

- Floor-standing or wall-mounted disposal sink.
- Bacteriostatic polished satin 304 stainless steel.
- Stainless steel thickness: 1.5mm.
- Smooth surface for easy cleaning.
- Concealed perimetral flushing system.
- Horizontal or vertical water inlet: Ø 55mm.
- Wall-mounted model with recessed horizontal waste outlet: Ø 100mm.
- Floor-standing model with horizontal or vertical waste 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 for floor-standing model, with frontal installation thanks to a stainless steel mounting frame for the wall-mounted model.
- Hinged stainless steel bucket grid.
- Wall-mounted model supplied with fixings.
- Weight: 16kg for floor-standing models, 15kg for wall-mounted models.

![XL disposal sink](image)

**Disposal sink**
Wall-mounted

- Wall-mounted disposal sink.
- Bacteriostatic polished satin 304 stainless steel.
- Stainless steel thickness: 1.2mm.
- Smooth surface for easy cleaning.
- Waste outlet 1¼". Waste not included.
- Hinged stainless steel bucket grid.
- Without overflow.
- Supplied with fixing elements.
- Weight: 5.1kg.

![Disposal sink](image)

---

**Disposal sink**

<table>
<thead>
<tr>
<th>XL P floor-standing</th>
<th>182060</th>
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<tbody>
<tr>
<td>Horizontal water inlet</td>
<td>182060</td>
</tr>
<tr>
<td>Vertical water inlet</td>
<td>182070</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>XL S wall-mounted</th>
<th>182160</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horizontal water inlet</td>
<td>182160</td>
</tr>
</tbody>
</table>

**Wall-mounted disposal sink**

| 180170 |
| 180170 |

: dispatch within 4 weeks  : stock item

Sanitary ware 191
DELABIE / Stainless steel Cleaners’ sink - plaster sink

Cleaners’ sink
Wall-mounted

• Wall-mounted cleaners’ sink with splashback.
• Bacteriostatic polished satin 304 stainless steel.
• Stainless steel thickness: 0.9mm.
• Seamless, pressed bowl.
• Deep sink.
• Smooth surface. Rounded edges prevent injury.
• Supplied with 1½” waste. Without overflow.
• Supplied with fixing elements and splashback.
• Option to add a stainless steel hinged, lift-up grid.
• Weight: 4.6kg.

Wall-mounted cleaners’ sink
Cleaners’ sink 182400
Stainless steel hinged grid for model 182400 102400

Plaster sink
Wall-mounted

• Wall-mounted plaster sink.
• Bacteriostatic polished satin 304 stainless steel.
• Stainless steel thickness: 1.5mm.
• Smooth surface and flat edges for easy cleaning.
• 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.

Wall-mounted plaster sink
180130

182 Sanitary ware
**SD drinking fountain**

*Wall-mounted*

- Wall-mounted drinking fountain.
- Bacteriostatic polished satin 304 stainless steel.
- Stainless steel thickness: 1.2mm.
- Rounded edges prevent injury.
- Supplied with a WRAS-approved bubbler tap: chrome-plated, instant shut-off and adjustable flow rate, inlet M⅜”.
- Flat perforated waste, without screws: easy to clean and vandal-resistant.
- Recessed horizontal water outlet. Waste outlet 1¼”.
- Supplied with fixing elements.
- Weight: 2.4kg.

**ILHA and ILHA JR drinking fountains**

*Floor-standing*

- Floor-standing drinking fountain.
- Bacteriostatic polished satin 304 stainless steel.
- Stainless steel thickness: 0.8mm.
- 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 M⅜”.
- Flat perforated waste, without screws: easy to clean and vandal-resistant.
- Recessed vertical water outlet. Waste outlet 1¼”.
- Supplied with fixing elements.
- Weight: 9kg for the 800mm model; 9.6kg for the 915mm model.
DELABIE / Stainless steel Hand washbasins

**SXLS hand washbasin**  Foot-operated

- Floor-standing, foot-operated hand washbasin.
- Can be wall-mounted and/or floor-standing.
- Bacteriostatic polished satin 304 stainless steel.
- Stainless steel thickness: 0.8mm.
- Supplied with swan neck spout and time flow tap with 7-second time flow.
- Easy to maintain: access panel at the front.
- Supplied with 1¼" waste. Without overflow.
- Supplied with fixing elements.
- CE marked. Complies with European standard EN 14688.
- Weight: 10kg.

**SXSS mechanical hand washbasin**  Knee-operated

- Wall-mounted, knee-operated hand washbasin.
- Bacteriostatic polished satin 304 stainless steel.
- Stainless steel thickness: 0.8mm.
- 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.
### SXS electronic hand washbasin
**Electronic control**

- Wall-mounted hand washbasin with electronic control.
- Bacteriostatic polished satin 304 stainless steel.
- Stainless steel thickness: 1.2mm.
- Rounded edges prevent injury.
- Available with or without splashback.
- 184310 and 184320 references are supplied with an electronic mixer with integrated battery and solenoid valve and a chrome-plated brass soap dispenser.
- 18431015 and 18432015 references are supplied with a WRAS approved electronic tap with integrated battery and solenoid valve, a TMV3 and WRAS approved thermostatic mixing valve and a chrome-plated brass soap dispenser.
- Supplied with 1¼” waste. Without overflow.
- Water savings: flow rate pre-set at 3 lpm.
- Maximum hygiene: no manual contact with tap, reduced-stagnation solenoid valve, duty flush prevents bacterial development.
- Supplied with fixing elements.
- CE marked. Complies with European standard EN 14688.
- Weight: 4.1kg.

### PMR XS hand washbasin
**Wall-mounted**

- Wall-mounted hand washbasin.
- Basin internal diameter: 310mm.
- Bacteriostatic polished satin 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.

<table>
<thead>
<tr>
<th>SXS electronic hand washbasin with tap and soap dispenser</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete hand washbasin without splashback</td>
<td>184310</td>
</tr>
<tr>
<td>Complete hand washbasin with splashback</td>
<td>184320</td>
</tr>
<tr>
<td>SXS electronic hand washbasin with tap and soap dispenser (WRAS)</td>
<td></td>
</tr>
<tr>
<td>Complete hand washbasin without splashback</td>
<td>18431015</td>
</tr>
<tr>
<td>Complete hand washbasin with splashback</td>
<td>18432015</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Wall-mounted PMR XS hand washbasin</th>
<th>120400</th>
</tr>
</thead>
<tbody>
<tr>
<td>Without tap hole</td>
<td></td>
</tr>
</tbody>
</table>

: dispatch within 4 weeks  : stock item
**TRAPEZ washbasin**
Wall-mounted

- Wall-mounted washbasin, 600 × 505mm.
- Shallow washbasin suitable for people with reduced mobility.
- Bacteriostatic polished satin 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.

**FRAJU PMR washbasin**
Wall-mounted

- Wall-mounted washbasin, 620 × 505mm.
- Shallow washbasin suitable for people with reduced mobility.
- Bacteriostatic polished satin 304 stainless steel.
- Stainless steel thickness: 1.2mm for the bowl and 1.5mm for surround.
- Rounded edges prevent injury.
- Supplied with 1¼" waste.
- Without overflow.
- Supplied with fixing elements.
- CE marked. Complies with European standard EN 14688.
- Weight: 5kg.
MINERALCAST PMR washbasin
Wall-mounted

- Wall-mounted washbasin, 785 × 545 × 150mm.
- With integral side grips which can be used as a support or a towel holder.
- MINERALCAST: composite material consisting of natural minerals and polyester resin.
- 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.
Eye wash and safety shower combination 9203
Safety controls

SAFETY SHOWERS
202

EYE WASH STATIONS
204
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's 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's 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's 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's 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 7/4 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's 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 155). So that the location of 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
DELABIE's 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...

Simple 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

ERGONOMIC HANDLE
activates shower and eye wash simultaneously

IDENTIFICATION SIGN FOR EYE WASH STATIONS

EYE WASH STATION WITH GENTLE SPRAY
User comfort

STAINLESS STEEL BASIN
Reliable

DRAINAGE
F 1¼"

HAND CONTROL
activates eye wash

FOOT CONTROL
activates eye wash

WATER INLET F 1"

BRASS FIXING PLATE
Reliable

IDENTIFICATION SIGN FOR SAFETY SHOWERS

GALVANISED STEEL RISER COLUMN
Reliable

Displayed model: eye wash and shower combination (ref. 9203)
**DELABIE / Safety showers** Eye wash and shower combination

- **Effective**: large flow rates 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, 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 shock-resistant, 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, shock-resistant ABS.**
- **Flow rate 70 lpm at 1 bar dynamic pressure (120 lpm at 3 bar dynamic pressure).**
- **Water supply F1”.**
- **Pipes made from galvanised steel, grey powder-coated finish. Triangular pull handle in green powder-coated brass.**
- **Hand and foot controls in green powder-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 “Safety 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.).*
Wall-mounted recessed safety shower  
Horizontal model with manual control

- **Frost-free system as standard.**  
- Circular shower head Ø 250mm in green, shock-resistant 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".  
- Pipes made from galvanised steel, grey powder-coated finish.  
- Triangular pull handle in green powder-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).

### Additional fitting

**Shower head**

- Circular shower head Ø 250mm M1".  
- Green, shock-resistant ABS.  
- **Flow rate 70 lpm** at 1 bar dynamic pressure (120 lpm at 3 bar dynamic pressure).  
- Water supply F1".

---

Wall-mounted safety shower  
9108

We recommend installing a TMV (see page 155)
**DELABIE / Eye wash stations wall-mounted / free-standing**

- **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

- Green powder-coated 304 stainless steel basin Ø 250mm.
- 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”.
- Pipes made from galvanised steel, powder-coated grey finish.
- Hand control in green powder-coated galvanised steel.
- Wall-mounted on a brass plate (screws not included).
- Supplied with identification sign for first aid equipment: "Safety Eye Wash".

### Free-standing eye wash station
Manual and pedal control

- **Frost-free system as standard.**
- Green powder-coated 304 stainless steel basin Ø 250mm.
- 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”.
- Pipes made from galvanised steel, powder-coated grey finish.
- Hand and foot controls in green powder-coated galvanised steel.
- Fixed to the floor by a brass plate (screws not included).
- Supplied with identification sign for first aid equipment: "Safety Eye Wash".
Trigger-operated eye wash - dual / single spray

- 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

Additional fittings

**Aerator F22/100**
- 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.

**Protective caps for aerators**
- Protective caps in green, shock-resistant ABS to protect the spray heads.
- Eject automatically when eye wash is activated.
- Supplied in packs of 2.

<table>
<thead>
<tr>
<th>Scientific Rationale</th>
<th>Model Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trigger-operated eye wash - dual spray - (9 lpm flow rate)</td>
<td>9121</td>
</tr>
<tr>
<td>For hand sprays</td>
<td>A22D75</td>
</tr>
<tr>
<td>For eye wash stations</td>
<td>A22LY75</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Scientific Rationale</th>
<th>Model Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trigger-operated eye wash - single spray - (6 lpm flow rate)</td>
<td>9141</td>
</tr>
<tr>
<td>Wall-mounted with support</td>
<td>9120C</td>
</tr>
<tr>
<td>Deck-mounted, flexible L. 1.50m 15 x 100 ½”</td>
<td>9140C</td>
</tr>
</tbody>
</table>

We recommend installing a TMV (see page 155)
Spare parts
Certification
Reference index

SPARE PARTS
208

CERTIFICATION
212

REFERENCE INDEX
216
BIOSAFE OUTLETS, FLOW STRAIGHTENERS

**BIOSAFE outlets** free flow with no grids or partitions in contact with water (with brass collar)
- F22/100 (1 piece) for basin taps/mixers 5 lpm
  - 923022
- F22/100 (50 pieces) for basin taps/mixers 5 lpm
  - 923022.50P
- M24/100 (1 piece) for basin taps/mixers 5 lpm
  - 923024
- M24/100 (50 pieces) for basin taps/mixers 5 lpm
  - 923024.50P
- M24/100 (1 piece) for 2640 basin taps/mixers, 5 lpm
  - 922640

**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
- M24/100 (50 pieces)
  - 921024.50P

**Flow straighteners at 3 lpm** flow rate can be adjusted using 2.5mm Allen key (with brass collar)
- F22/100 (2 pieces)
  - 922022.2P
- M24/100 (2 pieces)
  - 922024.2P
- Key for adjustments (2.5mm Allen key)
  - C282025

**Removal tool**
- For flow straighteners
  - 222428

SPOUTS

**Spouts L. 300mm**
- Over spout Ø 22mm, H. 230mm
  - with nut ¾", flow straightener inserted
  - 963300245F
- Over spout Ø 22mm, H. 230mm
  - with nut ¾" and BIOSAFE outlet
  - 963300923F
- Over spout Ø 22mm, H. 120mm
  - with nut ¾", flow straightener inserted
  - 963300145F
- Under spout Ø 22mm, H. 80mm
  - with nut ¾" and flow straightener, not threaded
  - 943300110

**Spouts L. 200mm**
- Over spout Ø 22mm, H. 230mm
  - with nut ¾", flow straightener set at 3 lpm (can be adjusted by 2.5mm Allen key)
  - 963200245F
- Over spout Ø 22mm, H. 135mm
  - with nut ¾", flow straightener inserted
  - 963200145F
- Over spout Ø 22mm, H. 120mm
  - with nut ¾" and BIOSAFE outlet
  - 963200923F
- Under spout Ø 22mm, H. 105mm
  - with nut ¾" and flow straightener, not threaded, for mixer 2519
  - 943200100M
- Under spout H. 46mm
  - with nut ¾" and flow straightener inserted for 2436 and 2445 mixers
  - 943200

**Spouts L. 150mm**
- Over spout Ø 22mm, H. 115mm
  - with nut ¾", flow straightener set at 3 lpm (can be adjusted by 2.5mm Allen key)
  - 963150125F
- Over spout Ø 22mm, H. 100mm
  - with nut ¾" and BIOSAFE outlet
  - 963150923F
- Under spout H. 46mm
  - with nut ¾" and flow straightener inserted for 2446 and 2447 mixers
  - 943150

TAMPERPROOF SCREWS

Tamperproof screws
- TORX M5 × 25 + rawl plugs
  - 999049
SOLENOID VALVES
For basins, showers and WCs
- 12V MM½" for basins 495626 M
- 12V MM¾" for basins 495612 M
- 12V MM1" for WCs except 463326 461035 -
- 12V MM1" for WCs 463326 461034 -
- 6V for TEMPOMATIC 3 basins 479749 N
- 6V for TEMPOMATIC 4 479748 N
- 6V for TEMPOMATIC 4 basins (with adjustable flow rate) 479650 -
- 6V MM½" for TEMPOMATIC 1 & 2, BINOPTIC 495646 O
- 6V MM¾" for TEMPOMATIC 1 & 2, BINOPTIC 495666 -
- 6V MM1" for SECURITHERM shower panels 495615 -
- Electronic unit for TEMPOMATIC WC dual control 461032 P

ELECTRONIC CONTROL UNITS
For basins, showers and WCs
- 230/12V standard with "duty flush" option, with transformer for basins 495444BC Q
- 230/12V multifunction with transformer for basins, showers, flush type 461... 495445BC Q
- 6V battery-operated for basins 495446BC Q
- 6V with integrated batteries for TEMPOMATIC 3 basins 492446 R
- 6V with integrated batteries for TEMPOMATIC 4 basins 490446 S
- 6V for TEMPOMATIC 4 basins, mains supply 490450 S
- 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.

SUPPLY CABLES
For TEMPOMATIC 4 basins with mains supply
- 6V recessed supply 490240 U
- 6V European plug supply 490241 -
- 6V British plug supply 490241UK V
- Extension 490230EXT -

SENSORS
For basins, showers and WCs
- With cable 0.70m 495070 W
- With cable 1.50m 495149 W
- With cable 5.00m 495499 W
For basins: BINOPTIC and TEMPOMATIC 2, cable 0.70m CEL378V -
For basins: BINOPTIC and TEMPOMATIC 2, cable 1.50m CEL378150V -
For basins: BINOPTIC and TEMPOMATIC 2, cable 5.00m CEL378499V -
For TEMPOMATIC WC automatic/voluntary, with cable 463399 W
NB: cable cannot be extended or cut.

BATTERIES
For basins, showers and WCs
- 2 x 3V Lithium batteries 123/CR 17345 990123 X
- 1 x 6V Lithium battery 223/CR - P2 990223 Y

WALL PLATES WITH INTEGRATED ELECTRONICS
For TEMPOMATIC WC dual control
- 6V with integrated batteries - satin finish stainless steel 464PI5P Z
- 230/12V - satin finish stainless steel 464PI5S Z
### BASINS - SINKS AND SHOWERS

#### Mixers with ceramic cartridges

<table>
<thead>
<tr>
<th>Ø 40mm cartridges</th>
<th>Maintenance kit</th>
<th>Complete cartridge</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard cartridges</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>With base, with flow rate limiter</td>
<td>2206, 2211, 2211L (before 12/2017), 2220, 2221, 2406, 2421, 2445, 2446, 2447LUK, 2520, 2521, 2565, 20121, 20421, 2720, 2721, 2820, 2821, 2539, 2739 (up to 10/2016)</td>
<td>-</td>
<td>N009AG75 AA</td>
</tr>
<tr>
<td>With base, without flow rate limiter</td>
<td>2239, 2252S, 2439, 2538, 2739</td>
<td>-</td>
<td>N109AG75</td>
</tr>
<tr>
<td>Without base, with flow rate limiter</td>
<td>20164T1, 20164T4, 20464T4, 20870T1, 20870T3, 20871T1, 20871T3</td>
<td>-</td>
<td>N201AG75</td>
</tr>
<tr>
<td>Without base, without flow rate limiter</td>
<td>2510, 2519, 2542, 2543, 2597, 2211, 2211L, and 2599 (up to 12/2017)</td>
<td>-</td>
<td>N148AA75</td>
</tr>
</tbody>
</table>

#### Ø 35mm cartridges

<table>
<thead>
<tr>
<th>Standard cartridge with base</th>
<th>2506T1, 2506T1T, 2506T2, 2506T3, 2599</th>
<th>-</th>
<th>NS262</th>
</tr>
</thead>
<tbody>
<tr>
<td>2620, 2621, 2620MINI, 2621MINI, 26206, 26216, 26206MINI, 26216MINI</td>
<td>-</td>
<td>NS262</td>
<td></td>
</tr>
</tbody>
</table>

#### Standard sequential cartridge with base

| 2436, 2436EP, 2436S, 2437, 2437S | - | N243 |
| 2640, 2640S, 2641, 2641S | - | N243 |

#### Mixers with pressure-balancing ceramic cartridges


| Ø 35mm cartridges with base | 2542EP, 2599EP, 2620EP, 2621EP, 2620MINI, 2621MINI, 26206MINI, 26206MINI, 26216MINI | - | N262 |

#### Mixers with thermostatic cartridges

<table>
<thead>
<tr>
<th>Thermostatic sequential cartridges</th>
<th>H9610, H9610S, H9611P, H9614P, H9615</th>
<th>-</th>
<th>N96</th>
</tr>
</thead>
<tbody>
<tr>
<td>H9600, H9605, H9612, H9613, H9642</td>
<td>-</td>
<td>N96L</td>
<td></td>
</tr>
<tr>
<td>H9630, H963015, H96305, H9632, H9634, H9635, H963815, H963915, H9640, H964015, H96405, H9641, H964415</td>
<td>-</td>
<td>N9630</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Thermostatic cartridges</th>
<th>H9739 and H9739S</th>
<th>-</th>
<th>N97L</th>
</tr>
</thead>
<tbody>
<tr>
<td>H9741, H9741S, H9741TIP, H9752P and H9752S</td>
<td>-</td>
<td>N97LAR</td>
<td></td>
</tr>
<tr>
<td>H9716 and H9726</td>
<td>-</td>
<td>N9726</td>
<td></td>
</tr>
<tr>
<td>H9769 and H97899</td>
<td>-</td>
<td>N9769</td>
<td></td>
</tr>
</tbody>
</table>

#### ¾" Ceramic head, V-turn

| for refs. since 02/2010 | - | P9775 AE |

#### Mixers with valve head or ceramic head

| Guided valve head Ø 22.5mm + cover | for range 5800 except 5807 and 5808 | - | P120AA75 AF |

#### Non-manual controls

| TEMPOGENOU 734100, 735100, 735200, 735400, 735447 | 753005 | 743305 AF |
| MONOFOOT 736001, 736101, 736102 | 753736 | - |
| MIXFOOT 738000, 738100, 739102 | 753739 | - |
WC

Cartridges

<table>
<thead>
<tr>
<th>Maintenance kit</th>
<th>Complete cartridge</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>For TEMPOFLUX 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>762901, 762902, 576211, 578300, 578305</td>
<td>743622</td>
<td>AG</td>
</tr>
<tr>
<td>762150</td>
<td>743623</td>
<td>-</td>
</tr>
<tr>
<td>576277, 578400, 578405</td>
<td>743677</td>
<td>-</td>
</tr>
<tr>
<td>For TEMPOFLUX 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>763000, 763040</td>
<td>743765</td>
<td>AH</td>
</tr>
</tbody>
</table>

Wall plates

For recessed TEMPOFLUX 3

| Satin finish stainless steel wall plates | 763PIM | - |
| Chrome-plated metal wall plates | 763PMM | - |

BED PAN CLEANERS

½" Ceramic head, ¼-turn right

| 158100, 2591, 2592, 2594 | P482AJ75 | AJ |

GROUP THERMOSTATIC MIXING VALVES

<table>
<thead>
<tr>
<th>Maintenance kit</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>For PREMIX SECURITY after 06/2008</td>
<td></td>
</tr>
<tr>
<td>731052, 731053</td>
<td>753750</td>
</tr>
<tr>
<td>731054, 731055</td>
<td>753755</td>
</tr>
<tr>
<td>For PREMIX COMFORT after 06/2008</td>
<td></td>
</tr>
<tr>
<td>731002, 731200, 731003, 731300</td>
<td>753730</td>
</tr>
<tr>
<td>731004, 731400, 731005, 731500</td>
<td>753735</td>
</tr>
<tr>
<td>For PREMIX COMPACT</td>
<td></td>
</tr>
<tr>
<td>733015, 733016, 733020, 733021</td>
<td>753733</td>
</tr>
<tr>
<td>For PREMIX NANO</td>
<td></td>
</tr>
<tr>
<td>732012, 732016, 732115, 732116, 732216</td>
<td>743732</td>
</tr>
<tr>
<td>Connector kit 3/8&quot; for 732216</td>
<td>732515</td>
</tr>
<tr>
<td>For ECONOMIX</td>
<td></td>
</tr>
<tr>
<td>2 x 15mm Combi angled inlet assembly</td>
<td>BA9915</td>
</tr>
</tbody>
</table>

SOAP DISPENSERS

| SOAP DISPENSERS | 729008, 729108, 729508 | 729302 | 729308 | - |
| 729012, 729112, 729512 | 729302 | 729312 | - |
| 729150, 729200 | 729302 | 729303 | - |
DELABIE / Certifications

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.

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<table>
<thead>
<tr>
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<tr>
<td>H9600</td>
<td>SECU RITHERM thermostatic sequential basin mixer H85 L120</td>
<td>WRAS1907015</td>
<td>31/07/24</td>
<td>TMVBC1002 Renewal</td>
<td>56</td>
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<tr>
<td>H9600610</td>
<td>SECU RITHERM seq basin mixer H85 L120 lever L146 copper tails</td>
<td>WRAS1907015</td>
<td>31/07/24</td>
<td>TMVBC1002 Renewal</td>
<td>56</td>
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<tr>
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<tr>
<td>H960015</td>
<td>SECU RITHERM sequential basin mixer H85 L120, lever L146 15mm</td>
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<td>H960015L</td>
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<td>H9605</td>
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<td>H960515</td>
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<tr>
<td>H960515L</td>
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<td>H9611P</td>
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<td>H9614P</td>
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<td>H9615</td>
<td>SECU RITHERM therm seq mixer st steel BIOCLIP spout w columns</td>
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<tr>
<td>H9630</td>
<td>SECU RITHERM therm seq shower mix bottom outlet, offset SC</td>
<td>WRAS1907003</td>
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<td>TMVBC1363 Renewal</td>
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<tr>
<td>H963015</td>
<td>SECU RITHERM therm seq shower mixer btm outlet inline SC, 15mm</td>
<td>WRAS1907003</td>
<td>31/07/24</td>
<td>TMVBC1363 Renewal</td>
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<tr>
<td>H9632</td>
<td>SECU RITHERM seq recessed waterproof shower kit 2/2 (+790BOX)</td>
<td>WRAS1512029</td>
<td>17/12/20</td>
<td>TMVBC1824</td>
<td>107</td>
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<tr>
<td>H9640</td>
<td>SECU RITHERM thermostatic seq shower top outlet offset SC</td>
<td>WRAS1907003</td>
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<tr>
<td>H964015</td>
<td>SECU RITHERM therm seq shower mixer top outlet inline SC, 15mm</td>
<td>WRAS1907003</td>
<td>31/07/24</td>
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<tr>
<td>H9741</td>
<td>SECU RITHERM thermostatic Securitouch shower mixer, offset SC</td>
<td>WRAS1605050</td>
<td>31/05/21</td>
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<tr>
<td>H9741TP</td>
<td>SECU RITHERM therm Securitouch shower mixer inline, SC TMV3</td>
<td>WRAS1605050</td>
<td>31/05/21</td>
<td>TMVBC1777</td>
<td>114</td>
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</table>

### OTHER INTERNATIONAL CERTIFICATIONS

![European Water Label](logo.png)
![TMV3 (UK)](logo.png)
![WRAS (UK)](logo.png)
![BELGAQUA (BE)](logo.png)
![WATERMARK (AU)](logo.png)
![Ü ACOUSTIQUE (DE)](logo.png)

![DIN-DVGW (DE)](logo.png)
![GVD approval (DK)](logo.png)
![PZH (PL)](logo.png)
![ZNAK BUDOWLANY B (PL)](logo.png)
![GA (HK)](logo.png)
![WELS (HK)](logo.png)

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214  Certifications
**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.

**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;
  - 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.).

<table>
<thead>
<tr>
<th>Flow rate E</th>
<th>Q lpm measured at 3 bar</th>
</tr>
</thead>
<tbody>
<tr>
<td>E0</td>
<td>4 lpm ≤ Q &lt; 6 lpm</td>
</tr>
<tr>
<td>E1</td>
<td>6 lpm ≤ Q &lt; 9 lpm</td>
</tr>
<tr>
<td>E2</td>
<td>9 lpm ≤ Q &lt; 12 lpm</td>
</tr>
<tr>
<td>E3</td>
<td>12 lpm ≤ Q &lt; 16 lpm</td>
</tr>
<tr>
<td>E4</td>
<td>16 lpm ≤ Q &lt; 20 lpm</td>
</tr>
<tr>
<td>E5</td>
<td>20 lpm ≤ Q &lt; 25.2 lpm</td>
</tr>
<tr>
<td>E6</td>
<td>25.2 lpm ≤ Q</td>
</tr>
</tbody>
</table>

The minimum rating for bath mixers is E3

<table>
<thead>
<tr>
<th>Comfort C or Ch</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>Dimensions, effort to operate</td>
</tr>
<tr>
<td>C1</td>
<td>Water saving features</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Sound level A</th>
<th>Lap dB (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>20 dB (A) &lt; Lap ≤ 30 dB (A)</td>
</tr>
<tr>
<td>A2</td>
<td>15dB (A) &lt; Lap ≤ 20 dB (A)</td>
</tr>
<tr>
<td>A3</td>
<td>Lap ≤ 15 dB (A)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Wear characteristics U</th>
<th>No. of cycles</th>
</tr>
</thead>
<tbody>
<tr>
<td>U1</td>
<td>Movable obturation mechanism: 70,000 cycles Mobile nozzle: 80,000 cycles Bath-shower diverter: 30,000 cycles</td>
</tr>
<tr>
<td>U2</td>
<td>Movable obturation mechanism: 122,500 cycles Mobile nozzle: 140,000 cycles Bath-shower diverter: 50,000 cycles</td>
</tr>
<tr>
<td>U3</td>
<td>Movable obturation mechanism: 175,000 cycles Mobile nozzle: 200,000 cycles Bath-shower diverter: 80,000 cycles</td>
</tr>
<tr>
<td>REF.</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>------</td>
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<tr>
<td>096020</td>
<td>Discontinued</td>
</tr>
<tr>
<td>102400</td>
<td>Wirod stainless steel grid for ref 183400</td>
</tr>
<tr>
<td>132207</td>
<td>TRAPEZ basin n tap hole 304 stal st, wall h/s overflow</td>
</tr>
<tr>
<td>134005</td>
<td>PMR basic wall no tap hole 304 satin stainless steel</td>
</tr>
<tr>
<td>134440</td>
<td>FLAUR PMR basin tap hole 304 c-c overflow 304 satin stainless steel</td>
</tr>
<tr>
<td>121270</td>
<td>TRAPEZ basin Ø35 tap hole 304 sat st, wall h/s overflow</td>
</tr>
<tr>
<td>121440</td>
<td>FLAUR PMR basin tap hole Ø35 no overflow 304 st stainless steel</td>
</tr>
<tr>
<td>193061</td>
<td>Tubero swivel spout Ø22 H110 L150</td>
</tr>
<tr>
<td>193062</td>
<td>Tubero swivel spout Ø22 H302 L120</td>
</tr>
<tr>
<td>193063</td>
<td>Tubero swivel spout Ø22 H126 L300</td>
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<tr>
<td>1316</td>
<td>Glouned wall with retractable spray, H200 L220 mm</td>
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<tr>
<td>192300</td>
<td>Discontinued</td>
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<tr>
<td>192303</td>
<td>Discontinued</td>
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<tr>
<td>192308</td>
<td>MINERALCAST PMR wall mounted basin L785 Ø35 centre hole</td>
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<tr>
<td>160020</td>
<td>Discontinued</td>
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<tr>
<td>161800</td>
<td>Stopcock 1/2” with vacuum breaker + 1/4 turn ceramic head</td>
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<tr>
<td>1583</td>
<td>Reinforced washbasin flexible FF1/2” 1m</td>
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<tr>
<td>15846</td>
<td>Trigger hand spray bed pan cleaner M1/2” inserted jet</td>
</tr>
<tr>
<td>180100</td>
<td>LH A free standing water fountain H915 304 st steel satin</td>
</tr>
<tr>
<td>180110</td>
<td>LH A R free std water fountain H800 304 st steel satin</td>
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<tr>
<td>180130</td>
<td>Hospital plastic sink wall mounted 304 stainless steel satin</td>
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<td>180140</td>
<td>Floor standing combi basin 304 stainless steel satin</td>
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<tr>
<td>180150</td>
<td>Floor standing cleaners sink 304 stainless steel satin</td>
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<tr>
<td>180170</td>
<td>Wall mounted cleaners sink 304 stainless steel satin</td>
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<tr>
<td>180172</td>
<td>Wall mounted base + 1 BIOCLIP disposable spout, panel fix</td>
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<tr>
<td>180305</td>
<td>S/L hand wash free standing right home Ø32 st steel sat</td>
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<td>180472</td>
<td>Wall mounted base + 1 BIOCLIP st. steel spouts, panel fix</td>
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<td>SD wall mounted water fountain 304 stainless steel satin</td>
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<td>180900</td>
<td>Discontinued</td>
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<td>181030</td>
<td>Surgical scrub high upstand L700 304 st steel satin</td>
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<td>181010</td>
<td>Surgical scrub h low upstand L500 304 st steel satin</td>
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<td>181100</td>
<td>Surgical scrub h upstand L700 1 tap hole Ø32 304 st steel satin</td>
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<td>Surgical scrub L700 2 tap holes Ø22 c:150 304 st satin</td>
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<td>SXS hand washbasin w/o tap 304 satin st steel</td>
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<td>SXS hand washbasin w/o tap with upstand 304 satin st steel</td>
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<tr>
<td>182000</td>
<td>Surgical scrub h high upstand L1400 304 st steel satin</td>
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<tr>
<td>182000</td>
<td>Surgical scrub h low upstand L1400 304 st steel satin</td>
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<td>Surgical scrub h upstand L1400 304 st steel satin</td>
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<tr>
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<td>182070</td>
<td>SL Floor std disposal sink vert int Ø30 st steel satin</td>
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<td>182100</td>
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<td>182160</td>
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<td>Surgical L1400 4 tap holes Ø22 c:150 304 st satin</td>
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<td>182310</td>
<td>SXS hand washbasin mechanical complete 304 sat st steel</td>
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<tr>
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<td>SXS hand washbasin mechanical complete with upstand 304 sat st steel</td>
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<td>182400</td>
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<td>WRA5 SXS hand washbasin elect complete with upstand 304 sat st steel</td>
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References prefixed by * are available while stocks last. References are listed in ascending alphanumerical order.
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**MAINTENANCE INDEX**

Reference prefixed by * are available while stocks last. References are listed in ascending alphanumerical order.

**Reference index / DELABIE**

**MAINTENANCE INDEX**
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References prefixed by * are available while stocks last. References are listed in ascending alphanumerical order.
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These will be processed in order of receipt. We reserve the right to cancel orders or to call-off. We will only accept orders for products that are in stock. If the order cannot be supplied to your satisfaction, or if you are at all dissatisfied with the goods supplied,

Our representatives are not authorised to modify the terms and conditions without our written consent. All orders will be cancelled in the event of default or delayed payment. The Company will be entitled to suspend deliveries or cancel existing orders when it considers payment to be in arrears.

Our terms of payment are strictly those set out in the section 'Terms and Conditions of Sale'.

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For the time being, all prices are calculated at the rates in force on the date of the written notification sent by recorded delivery within 30 days of the date of the order. We do not accept any other price than that specified in the order or in our catalogue. Prices are given without any discount unless otherwise stated in the Incoterms. Price increases will be announced one month prior to their application and they apply to quotes and orders in hand.

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Unless otherwise stated, payments are due within 30 days. Any discriminatory treatment of the buyer will result in a one-off payment of 40% of the price of the goods in question. In the case of late payment, a one-off payment may be required, depending on existing conditions. We will not accept any claim for compensation or payment of goods except for the duration of the guarantee. They are listed above the bundle of catalogues.

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In the case of return or replacement, items will be excluded from any deductions infra-prohibited. Items must be returned to our factory* with good protective packaging. Any return less than 1 month: refund at invoiced price. Goods are not returned to us for credit without our prior agreement. Goods inwards department. All returnable goods are subject to the same conditions as new goods for the duration of the guarantee. They are listed above the bundle of catalogues.

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Availabilities in 2 formats - REVIT and VDC, files are downloadable via the product data sheet or via datasheets.

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You can personalise it by giving a project name and description, by choosing the order for the products to appear and by adding/delete images.

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- installation that does not comply with the technical specification or current recommendations;
- non-compliance with installation, user and maintenance manuals;
- other factors independent of our products' quality, for example deterioration or adverse 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;
- modifications or sales by the customer, or a third party, without our authorisation using non-DELABIE components and/or consumables items;
- products post their expiry date.

The lightness and correctness of joints, the product housing is the responsibility of the professional responsible for installation, and must be guaranteed for the duration of the guarantee. Installations without the corresponding guarantees are not guaranteed; however they would be supplied if the warranty application requires them. Any finishing work other than chrome or nickel would be excluded from the warranty. In the event that the product has been discontinued or that 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.

Warranty and responsibility disputes to be referred to the Court located in the area of our domicile, even in the event of breach of international borders without an express prior agreement on our part.

EXCLUSIVE TERRITORIES:
In most countries throughout the world, our company has entered into exclusive agreements with organisations to import/distribute our products. Within the framework, our customers can only sell our products outside this network on an express prior written order or contract.

Jurisdiction:
In the case of products delivered from France, the contract is governed by French law. Any dispute arising from the present contract will be settled definitively by the Court located in the area of our domicile, even in the event of breach of international borders without an express prior agreement on our part.

Copyright:
All photos, drawings or illustrations are for illustrative purposes only. They may be used under copyright law in accordance with any restrictions. In the event of a disagreement, legal action may be brought by the seller.
DELABIE
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