

FM Mattsson



# Health and Care



# All hands are different. This is why some of our taps are extra user-friendly.

We are the leading tap manufacturer in Sweden, and the oldest. Over the years, we have gathered a wealth of practical experience from specially adapting products for home use, hospitals and nursing homes. This experience has helped us developing excellent products and smart solutions.

This brochure introduces our Health & Care products. These products are based on two types of mixers from our standard range: soft-closing single lever mixers for kitchens and basins and safety mixers for baths and showers.

## Technology and design

Two important aspects are common to all the products. One is design. Design is not just to do with function and ergonomics, but also about looking good. The other is technology. Our safety mixers

and single lever mixers are based on patented solutions for unique safety and comfort. Small details like a specially adapted lever or knob can make life much easier for elderly and disabled users.



A longer lever requires less strength.



Our black handles provide a better contrast and will help people with reduced eyesight. This handles are also easier to grip.



Wings on the handles make them easier to grip and to turn.



# Antibactus is a line of products designed to reduce the risk of legionella growth. Antibactus is also a system for flushing hot water through FM Mattsson safety mixers.

Legionella bacteria thrive in still water at temperatures between 20 and 40 °C. In these optimal growth conditions, legionella can rapidly increase to hazardous levels. The Antibactus drain valve, which is connected to the mixer tap outlet, automatically drains the mixer, shower and hose every time you turn the water off. This prevents the chances of bacteria breeding.

To reduce the risk of scalding accidents, the FM Mattsson safety mixer is fitted with a hot water

restrictor which, during normal operation, prevents the mixer from reaching dangerously high temperatures that can cause burns.

The Antibactus flushing kit is a conversion kit which uses the same safety system and also allows the mixer to be flushed with very hot water. The purpose of the flushing process is to minimise the level of legionella bacteria in the water pipes.



The hand-held shower attachment should be positioned safely, for instance in a flush funnel, while hot water is flushed through the mixer. This prevents hot water from splashing.



The yellow lock button on the temperature knob indicates that the mixer is fitted with the Antibactus flushing kit. All you have to do is to use an allen key to set the mixer to flush mode. The pre-set calibration temperature on the outlet is not effected by adjusting to this mode.



The Antibactus drain valve, which is connected to the outlet of the mixer tap, automatically drains the mixer, shower and hose every time the water is turned off.

## TMV3 approved

All FM Mattsson Units are thoroughly tested before they even leave the factory. The units have passed rigorous WRAS approvals and as such meet all government water bylaws.

In addition several units are TMV3 approved, which is more rigorous testing regime concentrated on the anti-scald capabilities of a unit, with particular regard to applications for hospitals and nursing homes.

An approval in accordance with the TMV3 scheme ensures that the performance of the units, with regard to safety under the broadest range of applications and conditions, is of the highest safety standards.



## The inside behind



### 1. Cool mixer body

The mixer exterior never heats up, so there is no risk of burning.

### 2. Limescale-resistant material

Hard water will not leave limescale deposits impairing the function of our mixers.

### 3. Scald protection

A built-in scalding protection device instantly cuts off the hot water if the cold water supply stops.

### 4. Guaranteed even temperature

Precise temperature and pressure control ensure perfectly constant temperature, regardless of fluctuations in the system.

### 5. Adjustable hot water lock

Very simple adjustment for limiting the maximum temperature. No risk of scalding.



### 1. Wide comfort zone

Easy to set at desired temperature.

### 2. Eco-aerator

Automatically reduces the water consumption without compromising on comfort.

### 3. Ceramic seal

Ceramic seal instead of standard gaskets for decades of leak-free function. No dripping taps.

### 4. Soft Closing

The soft-close system creates a moment's delay before the mixer closes. This prevents pressure shocks and impact in the pipes, increasing the lifespan of both mixers and pipes.

### 5. Cold Start

With the lever pointing straight forward, only cold water is supplied instead of a mixture of hot and cold. This reduces the hot water consumption by up to 30 percent without compromising on comfort.

### 6. Materials approved for food contact

All parts that come into contact with water are made of materials approved for food contact.

# Kitchen mixer

## Firm grip with soft closing

The user-friendly care lever provides a firm grip and logical movements. Ideal in kitchens and for basins where users frequently alternate between hot and cold water. All our single lever mixers are equipped with a soft-close system that takes the strain off your pipes and reduces nuisance noise in the pipe system. Ceramic seals ensure a long, maintenance-free lifespan and prevent dripping.



### **FM Mattsson 9000E II**

Kitchen mixer with extra-long lever. Eco Flow 9 l/minute. Swivel spout, 4 options for locking the spout position on installation.

FMM 8000-4010

# Basin mixers

## Levers adapted to your needs

The user-friendly care lever provides a firm grip and logical movements. Ideal in kitchens and for basins where users frequently alternate between hot and cold water. All our single lever mixers are equipped with a soft-close system that takes the strain off your pipes and reduces nuisance noise in the pipe system. Ceramic seals ensure a long, maintenance-free lifespan and prevent dripping.



### FM Mattsson 9000E

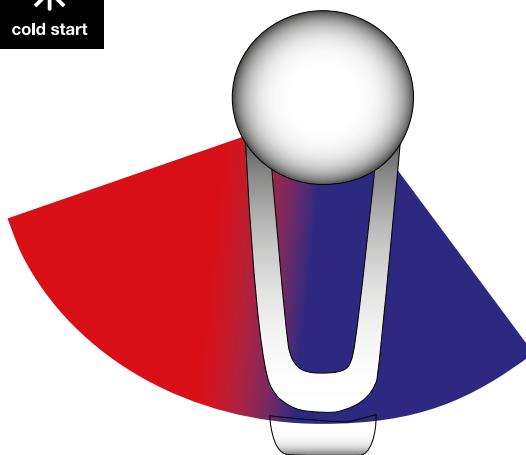
Basin mixer with extra-long lever, providing an easier grip for weak hands. Eco Flow 6 l/minute.  
FMM 8060-4010

With pop-up waste.  
FMM 8065-4010



### FM Mattsson 9000E

Basin mixer with extra-long lever, providing an easier grip for weak hands. With self-closing hand shower. Eco Flow 6 l/minute.  
FMM 8067-4010



### Cold start

The Cold Start function provides only cold water when the mixer is turned on with the lever pointing straight forwards. This reduces the hot water consumption by up to 30 percent, without compromising on comfort. The water pressure will be the same as in an ordinary tap. FM Mattsson's environmental friendly mixers, 9000E and Siljan, have the Cold Start function as standard.

The Cold Start function minimises the risk for unintentional hot water mixture. Remaining hot water in the tap could form a risk for your health and should not be used for drinking or cooking. This reduces the hot water consumption by up to 30 percent without noticing a difference. The time it takes to supply hot water is the same as in an ordinary tap, but you save money and protect the environment.



FM Mattsson 9000E Tronic is a new generation of sensor operated mixers in Sweden. All technical parts are integrated in the mixer body for easy maintenance. The temperature is easily set by means of a lever at the side of the mixer. The lever can be fixed in order to secure the mixer against scalding or alternatively remove the lever if you need only a fixed temperature. There is also a programmable function for hygienic flush that prevents the water to be stagnant too long and thereby prevents bacteria to grow.



#### FM Mattsson 9000E

Touch free basin mixer with temperature handle. Lead and nickel free. After setting the desired temperature, the handle can be removed and be replaced by a cover. Eco Flow 5 l/min. Automatic adjustment of the sensor range.

Battery powered.  
FMM 1641-0000

For mains operation 12V AC/DC.  
FMM 1641-1000

Centrally controlled 12V.  
FMM 1641-5000



#### FM Mattsson 9000E

Touch free basin mixer without temperature handle. For pre-mixed water, one connection hose. Lead and Nickel free. Eco Flow 5 l/min. Automatic adjustment of the sensor range.

Battery powered.  
FMM 1640-0000

For mains operation 12V AC/DC.  
FMM 1640-1000



#### FM Mattsson 9000E Tronic mixer

Touch free thermostatic basin mixer.  
FMM 1650-1500

Antibactus mixer for surgery dept.  
FMM 1660-1500

- User friendly**  
 The mixer starts to flush when you hold your hand in front of the sensor eye. When started the mixer will run as long as the hand is in front of the sensor. Maximum flushing time 60 seconds.
- Easy to programme**  
 It is easy to programme the mixer by holding your finger in front of the sensor. You can change flushing periods and also conduct thermal flushing. If programmed with remote control is preferred, that is just as easy.
- Automatic hygiene flushing for increased hygiene**  
 The FM Mattsson 9000E Tronic has an automatic hygiene flushing function as well as a manual flushing function. There are models available with an extra cable for centrally controlled hygiene flushing.
- Battery and mains operation in the same model**  
 FM Mattsson Tronic is delivered prepared for both battery and mains operation, and it is easy to switch between the two.
- Operational reliability**  
 An automatic calibration of the sensor makes the mixer continuously adjusts the sensitivity of the sensor according to the current light conditions. An in-line filter prevents dirt and particles to get stuck in the solenoid valve.
- Vandal-proof**  
 Built-in battery, no hanging cables, lockable mixer settings, temperature knob can be replaced by a cover. All these features are designed to make the mixer as safe as possible.

# Bath and shower

## Get a better grip in the bath and the shower

Wings on the handles make them easier to grip and to turn. Black and white handles provide a better contrast and will help people with reduced eyesight.



### FM Mattsson 9000E safety mixer, bath

Pressure-balanced thermostatic mixer with swivel spout diverter.

FMM 8200-2504



### FM Mattsson 9000E safety mixer, shower

Pressure-balanced thermostatic mixer.

Connection down.  
FMM 8210-2504

Connection up.  
FMM 8211-2504



### Safe temp

Enjoy a stable, constant shower temperature, regardless whether your dishwasher is on or a toilet is being flushed. Our safety mixers detect and compensate for all temperature and pressure changes in the water supply.

This function also prevents children from possible scalding. All safety mixers have a built-in hot water restrictor and a scalding protection device.

Our 9000E and Siljan bath and shower mixers have the Eco Plus flow control as standard. For increased water pressure in the shower, press the Eco Plus button and turn the knob. However, the standard water pressure is normally quite satisfactory. This saves both water and the environment. With the Eco Plus button, the user must actively choose to turn the water supply on full capacity.





### FM Mattsson 9000E II ssafety mixer, shower

Pressure-balanced thermostatic mixer.

Connection down.  
FMM 8210-2500

Connection up.  
FMM 8211-2500



### FM Mattsson 9000E Tronic Safety mixer

Touch free thermostatic mixer.

Connection down.  
FMM 1680-1500

Connection up.  
FMM 1681-1500

- User friendly**  
 The mixer starts to flush when you hold your hand against the sensor eye. When started the mixer will run for 40 seconds and will then sense if an individual is standing in front of the mixer. After a total flushing time of three minutes the shower mixer will close. If leaving the area in front of the mixer, it will close after 20 seconds. It is possible to manually close the flushing by holding your hand or a finger against the sensor eye.
- Easy to programme**  
 For installations with special needs, it is easy to programme the function of the mixer. With a remote control, you can switch the programs, change flushing periods and also conduct thermal flushing.
- Automatic hygiene flushing for increased hygiene**  
 The mixer has an automatic hygiene flushing function (not activated at delivery).
- Battery and mains operation in the same model**  
 FM Mattsson Tronic is delivered prepared for both battery and mains operation, and it is easy to switch between the two.
- Operational reliability**  
 An automatic calibration of the sensor makes that the mixer continuously adjusts the sensitivity of the sensor according to the current light conditions. An in-line filter prevents dirt and particles to get stuck in the solenoid valve.
- Vandal-proof**  
 Built-in battery, no hanging cables, lockable mixer settings, temperature knob can be replaced by a cover. All these features are designed to make the mixer as safe as possible.



**FM Mattsson Safety mixer**  
 For concealed assembly.  
 FMM 9230-0000

# Antibactus

## Hot water minimises risk of legionella

Having very hot or cold water in the pipe system is the best way to prevent bacterial growth. Legionella is a bacteria that is naturally present in groundwater and can cause Pontiac fever and Legionnaire's disease. People with weakened immune systems are especially susceptible to these diseases.

Approximately 500 cases of these diseases are documented in Sweden every year, but many more may not be reported. One in ten cases are fatal. People can catch legionella by inhaling steam contaminated with the bacteria. This means that systems that generate steam are possible sources for contamination, for example showers, air humidifiers, jacuzzis and high-pressure washing systems. Legionella is most effectively controlled by keeping your cold water cold and your hot water hot. The temperature should be at least 60 °C in the hot water heater and at least 50 °C in the pipes feeding the mixer.

We have developed "Antibactus", a technique that minimises the risk of legionella growth. Antibactus are products aimed for thermal flushing. This minimises the risk of favourable environments for legionella bacteria to grow and also removes other undesired bacteria in the pipe system.



**FM Mattsson 9000E**

Safety mixer. Connection down.  
FMM 8262-1500

With eccentric couplings.  
FMM 8262-7500

See spouts on page 12.

**FM Mattsson 9000E Antibactus**

Safety mixer. Connection down.  
FMM 8210-6500

With eccentric couplings.  
FMM 8210-6600

**FM Mattsson**

Antibactus shower set  
with drain valve.  
FMM 3445-0140

# Accessories

## Make life much easier

Two important aspects are common to all the products. One is design. Design is not just to do with function and ergonomics, but also about looking good. The other is technology. Our safety mixers and single lever mixers are based on our patented solutions for unique safety and comfort. Small details like a specially adapted lever or knob can make life much easier for elderly and disabled users.



### FM Mattsson 9000E spout

With air admixture aerator.  
Fits FMM 9000E wall mounted single lever mixers 8130, 8131, 8132 and 9000E thermostatic mixer FMM 8262.

Length 100 mm, fixed, 6 l/min.  
FMM 3586-0100

Length 150 mm, fixed, 6 l/min.  
FMM 3586-0150



### FM Mattsson 9000E care-lever

Length 150 mm.\*  
FMM 5850-1750

Length 180 mm.\*\*  
FMM 5850-1800



### FM Mattsson 9000E II care wings

For FMM thermostatic mixers in the 9000E II series for better grip. To be mounted on existing handles. Dual pack.  
FMM 3597-0150



### Antibactus flushing kit

Kit for thermal disinfection against legionella  
Fits FMM 9000 thermostatic mixers  
After rebuilding the mixer can easily be flushed with hot water when needed  
The safety system of the mixer remains  
FMM 5985-0800



### Regulating cartridge Antibactus

Regulating cartridge complete, incl. of service tool FMM 6077. For FMM thermostatic mixers with function for thermal disinfection against legionella.  
FMM 3860-7000



### Drainage valve

AntiBactus. For shower set FMM 3445-0140.  
FMM 3447-0000



# Reference objects from FM Mattsson

**We are very proud to be the supplier to the following objects:**

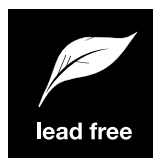
- Karolinska Institutet Bio Medicum in Stockholm, Sweden
- Childrens Hospital in Perth, Australia
- Gould Coast University hospital in Queensland, Australia
- Östfold Hospital Sarpsborg, Norway
- Rikshem in Uppsala, Sweden
- Akelius fastigheter in Borås, Sweden
- Owner association Omegn in Århus, Denmark
- ÅF building in Gothenburg, Sweden,
- Gothenburg New Multisport arena in Gothenburg, Sweden
- Friends Arena, Sports and event venue in Stockholm, Sweden
- Landvetter airport in Gothenburg, Sweden
- Kastrup Airport in Copenhagen, Denmark
- Arlanda Airport in Stockholm, Sweden



# Our unique guarantees and functions



The **Ecosafe®** concept is based on environmental awareness throughout the whole product lifecycle. This includes reduced environmental impact in the factory, smart choice of materials and energy-smart functions that make the end products environmentally friendly and recyclable.



Our brass alloys are **lead free**, which is better for the environment and for those who use our products.



**Cold Start** uses less hot water but offers the same high comfort. When the mixer is turned on with the lever pointing straight forward, it supplies cold water only. This saves a lot of hot water.



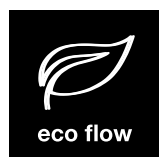
We make **taps for everyone**, including people who are not as strong as you. We want everyone to be able to easily use our taps on a daily basis.



Eco Plus **saves hot water** because you must actively choose to turn the water on full. The safety mixers have an Eco Plus button on the flow control knob. On single lever mixers, the lever must be pushed past a resistance to turn the tap to full flow. Release the lever to return to half flow.



**Antibactus** are products intended for thermal flushing. This prevents the risk of thriving environments of legionella and removes possible bacteria in the water system.



**Extra water savings** thanks to a simple, smart function that controls the water flow in single lever mixers and showers. The water flow is limited to 5 or 6 litres per minute for basin mixers and 9 litres per minute for kitchen mixers. The shower mixers are limited to maximum 12 litres per minute.



**Increased shower comfort** without using more water, thanks to a shower head that mixes air into the water to create a soft, full shower jet.



The **Soft Closing function** creates a moment's delay before the tap closes. This prevents pressure shocks and impact in the pipes and mixer, thereby increasing their lifespan. A globally unique system that we are immensely proud of.



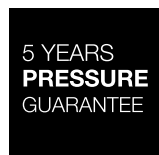
**Even temperature.** There is no risk of scalding thanks to a smart lever function that keeps the water temperature constant at  $\pm 1^\circ\text{C}$ .



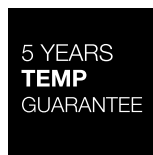
Our garden taps are **frost-proof**. You can rely on them in all weathers. They are selfdraining even when the hose is connected.



A programmed function for **hygiene flushing** to prevent stagnant water and to ensure a regular exchange between hot and cold water, which prevents bacteria growth in the water system. Hygiene flushing must not be confused with Antibactus flushing, which removes bacteria possibly already arisen in the system.



Our globally unique soft-close function **prevents pressure shocks and impact** in the pipes. We guarantee this. The guarantee applies to all FM Mattsson single lever mixers with soft closing function.



Thanks to the **dual function** of our safety mixers, you always get the required water temperature. We guarantee that the temperature will remain within  $\pm 1^\circ\text{C}$  while the water is running, even if the temperature and the pressure in the pipes vary. Access to a hot water supply is a condition for the validity of this guarantee. The guarantee applies to all our safety mixers.



Even if you have a hard water supply this **will not effect** the operation of our mixers. We guarantee this. The guarantee applies to all FM Mattsson safety mixers.







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