



SafeShower

by *polymem*

In-line Microfiltration for bacteriologic protection on shower water

Bacteriologic protection
on shower water

HEALTHCARE
CENTERS



Hospital, clinics,
nursing, dentist

HOME
RESIDENTIAL



HOTELS
SPAS



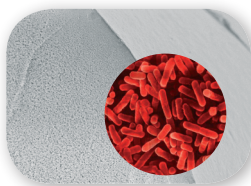
Recreational centers, Camping centers,
cruise ships, Ferries ...

- ✓ Bacteria free water shower - legionella prevention
- ✓ High flow and long life time
- ✓ Easily installation, instantaneous protection
- ✓ Approved by hospitals and health care institutions



A water contamination with pathogens, even light, can constitute a real sanitary danger; one famous example being Legionella. Legionella bacteria can reproduce themselves to high levels in warm stagnant water, as found in plumbing of large buildings such as nursing homes and hospitals. The risk of infection is greater for elderly and people with weak immune system. The most efficient solution is a filtration at the point of use: microfiltration membrane cartridges retain high bacterial charges and thus allow to avoid contamination and its consequences. It secures the water at the point of use and particularly the showers where the risk is high. The membrane pore size of 0.1 micron, that is to say smaller than the smallest micro-organism, allows to obtain the optimal filtration and an increased protection. Legionella bacteria (0.5 - 0.7 micron in size) occurring naturally in surface water, frequently found in shower plumbing and responsible of Legionellosis diseases are rejected.

Bacteria free shower - Legionella prevention



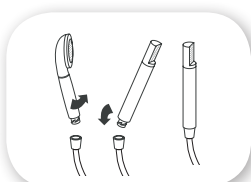
Polymem™ SafeShower® et Polymem™ SafeLine are composed of microfiltration hollow fiber membranes inserted in the shower handset or in the in line microfilter. The microfilter membrane is manufactured following the same patented technology than Polymem membranes used for municipal and industrial applications. These membranes are NSF61 and ACS (French Health Ministry) approved.

High flow and long life time



The water passes from the outside to inside of the hollow fiber membrane (small porous plastic tubes less than one millimeter in diameter) barrier while bacteria and suspended matters are captured on the membrane surface. The hollow fiber membrane material (Polysulfone) and the outside / in filtration water circulation offer high chemical and mechanical durability, an extended filtration membrane area for high flow allowing a good comfort of use and high membrane surface for a long life time.

Easily installation, intantaneous protection



The safeshower handset including membrane features universal fitting to simply screw it to any ordinary shower hose. The SafeLine microfilter is screwed on the pipe line of the point of use. The bacteriological protection starts immediately after installation. Produced flow will decrease but bacteriologic protection is always kept.

Custom made



For the specific needs of certain customers, we offer to design and manufacture safe showers answering to their requirements:

Membranes characteristics, Shower geometry and concept (custom design), Membrane area related to cartridge volume and shape, Material, color, labelling, packaging

We offer to share our knowledge and experiment in water membrane filtration to manufacture the domestic products the customers are asking for.

Main features

Pore diameter
0.10µ

Rejection
> 99.99% for all bacteria

Max pressure
5 bar (70 psi)

Max Temperature
70°C

Life Time
10,000 liters minimum for 3,500 cm² (3.9 ft²) effective membrane area (for standard E.U Average Drinking Water Quality)

Protection
instantaneous

Product characteristics



- Hollow fiber membranes with micro-porous structure made of Polysulfone
- Dead-end Outside/In Filtration
- Extended membrane area for a high flow (good comfort of use) and a long life time
- High thermal resistance of the vessel material
- Standard connections

