MEMBRANE EXPERTISE™
MEDICA

HOLLOW FIBER POINT OF USE FILTERS
FOR LEGIONELLA TREATMENT

RESIDENTIAL SECTOR

HOTEL INDUSTRY, CAMPING

SWIMMING POOLS

WELLNESS CENTRE

FACILITY FOR THE ELDERLY, DISABLED

INTENDED USE

The Versatile-PES® microfiltration membrane has ideal characteristics for meeting water filtration requirements in communities and health care facilities, where the complexity of the systems and the layouts of water supply networks lead to the risk of contamination by Legionella, Pseudomonas, fungi and other pathogens, but which also require high water flow-rates at the point of use for lengthy periods of use.
The Versatile-PES® membrane is able to meet these requirements in full, since it has a micro-porous structure with pore size of 0,15 µm, capable of providing effective protection against bacterial contamination: however, the pore distribution (number of pores/unit of surface area) is such as to guarantee a huge filtering surface with high permeability, which translates into a high flow rate throughout the filter's lifetime. **Medica S.p.A.** has developed a range of products for filtration at the point of use with the Versatile-PES® membrane which incorporates sink/basin filter with aerator which is also suitable for bathtubs and bidets (MediaPure SSU3 TP SINK), sink/basin filter with spray head for patient showers, pre-op rooms, wall-mounted showers (MediaPure SSU3TP RAIN), shower head filter (MediaPure SSU3SH) and, last but not least, an in-line filter (MediaPure SSU3 IL), all supplied in dedicated sterile packaging.

STRENGTHS

- Complete protection based on the size of the pores and the adsorption capacity of the membranes themselves
- Particularly suited for tap water for drinking, cooking and personal hygiene
- Superiority of hollow fiber membranes compared to common flat sheet membranes used in point-of-use filters:
  - higher level of microbiological protection (11 LRV) bacteria
  - higher lifespan (3 months)
  - higher water flows
- Easy to be installed and without any maintenance required
- Mechanically resistant and not bulky

Medica S.p.A.

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MOCA
UNI EN ISO 9001:2015
UNI CEI EN ISO 13485:2016
MOCA Certification - Report Rev. 00 - 21 / 12/2018

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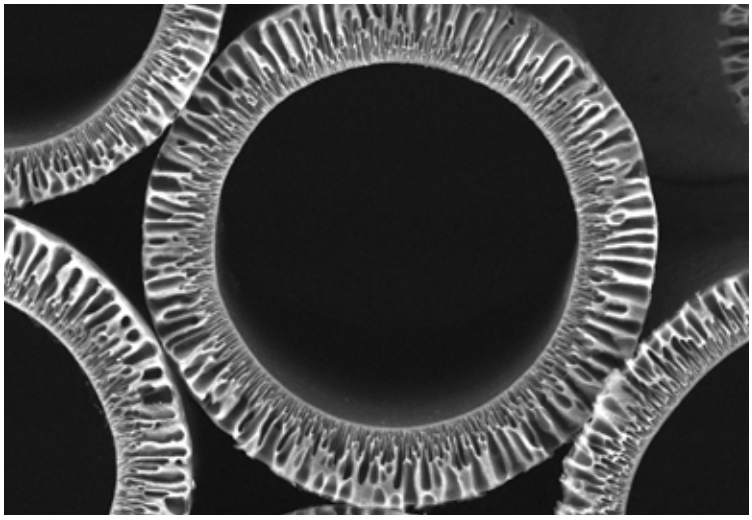
MEDICA WATER DIVISION

Leader in the production of electromedical equipment and single-use medical devices, with 59 registered patents, an innate vocation for research and development, the solidity of a group of 600 employees forged through nearly 40 years in a market, **Medica S.p.A.** thanks to a continuous technological innovation it's the only Italian company with capillary membrane extrusion technology for purification of blood and water developed entirely within the organisation.



MEMBRANES

Medica S.p.A. manufactures and distributes two unique hollow-fibre membranes for water purification:

MediSulfone® - polysulfone (PS) **ultrafiltration membrane**, used for almost 20 years in the field dialysis in order to obtain ultra-pure dialysate, and in various other applications for the retention of bacteria, viruses and endotoxins, particulates/microplastics, and more generally all substances with a molecular weight greater than 15 kDa and dimensions greater than 0.005 µm

Versatile-PES® - polyethersulfone (PES) **microfiltration membrane**, used in various applications for the retention of bacteria, yeasts, mould and algae, particulates/microplastics, and more generally all substances with a molecular weight greater than 1000 kDa and dimensions greater than 0.15 µm

Medisulfone® and Versatile-PES® are registered trademarks of ***Medica S.p.a.***

In 2020, **Medica S.p.A.** joined **Graphene Flagship**, a major EU graphene research initiative, and it also co-ordinates the **Graphil Project** through a network of industrial and academic partners.
The goal is, by 2023, to bring to market a new generation of filters incorporating the membrane filtration with the adsorption properties offered by graphene to filter out emerging contaminants such as pharmaceuticals and PFAS (harmful perfluoroalkyl and polyfluoroalkyl substances), in response to the requirements of the new directive on the quality of water intended for human consumption (**2020/2184 EU**).
The Graphil filters will contribute to the achievement of the environmental sustainability goals laid out by the UN and EU: reduction in plastic bottles, greater safety and use of drinking water, consumer trust.

TECHNICAL FEATURES

	MEDIAPURE SSU3 IN-LINE	MEDIAPURE SSU3 TP SINK	MEDIAPURE SSU3 TP RAIN	MEDIAPURE SSU3 SH	MEDIAPURE SSU3 SH
Use	Single use				
Potting	Polyurethane				
Filter body	ABS (Acrylonitrile Butodiene Styrene) (1)				
Filtration's grade	Microfiltration				
Membrane's type	Polyethersulfone Versatile-PES®				
Membrane porosity	0,15 micron				
Cut-off	1000 KDa				
Filtration's stage	Single				
Bacterial retention	>10^{11} Pseudomonas Aeruginosa, Brevundimonas Diminuta (11 LRV)				
Viral retention	N/A				
Endotoxins retention	N/A				
Minimum Flow Rate (lt/min a 3 Bar)	15 lt/min				
Expected lifespan (2)	92 giorni				
Maximum Inlet Pressure	5 Bar				
Maximum Inlet Temperature	60 °C				
Maximum Disinfection Temperature	75°C / 30 min				
Certification	Coronaty Consulting – University of Modena and Reggio Emilia (Italy)				
Connections	CPC - Colder	CPC - Colder	CPC - Colder	CPC - Colder	BSPP ½" maschio
Sterilization	Ethylene Oxide (EO)				
Product Code	M90382A	M90219A	M90220A	M90221A	M90248A
Q.ty box MOQ (3)	10	15	15	6	6

(1) Soon also available made in PP version (Polypropylene)
(2) the expected filter's lifespan, it's strongly influenced by the quality of the treated water (fixed residue), by the presence of one coarse filtration upstream
(3) MOQ = Minimum Order Quantity

	CPC – Colder CONNECTOR	CPC – Colder CONNECTOR	CPC – Colder CONNECTOR	CPC – Colder CONNECTOR
Material	SS 304			
Connection	M24x1 male	M28x1 male	F22x1 female	BSPP ½" male
Valve	Acqua-stop			
Product Code	M03708	M03709	M03711	M03715
Q.ty box MOQ	1	1	1	1

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