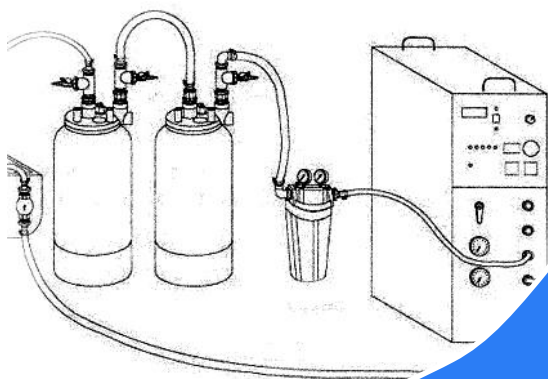


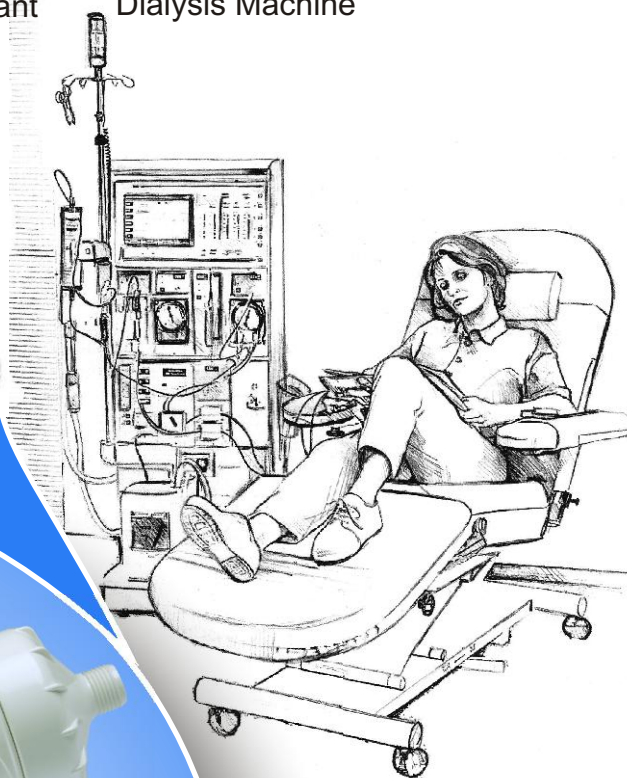
MEDiAPure

...Where ultrapure water is a basic prerequisite.

Centralized Water Treatment Plant



Dialysis Machine



MEDICA Group

MWD

MEDICA WATER DIVISION

Membranes for better life

APPLICATIONS

MEDiaPure

MEDiaPure Filters have been developed with the aim of producing ultrapure water for medical applications.

DIALYSIS

One of the main applications is in the dialysis field where purified water plays a major role as more than 99% of the dialysate is water. MEDiaPure Filters can be used as the last component in the water purification process before going out to the dialysis stations to ensure ultra pure water for dialysis.

MEDiaPure is an additional protection that reduces the possibility of contamination occurring in the water supply circuit.

MEDiaPure Filters can be installed as follows:

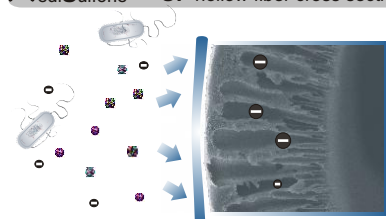
- ▶ In centralized water treatment system, after R.O. or other purification technology
- ▶ Directly behind the dialysis machine, located on the wall, at the water pipe outlet as a last stage in dialysate purification.
- ▶ Retro-fitting of MEDiaPure Filters instead of using the manufacturer installed purifier. Due to superior filter durability and extended life MEDiaPure provides the user with significant cost savings.
- ▶ MEDiaPure Filters can also be used to filter bicarbonate concentrate that can be a potential source of bacterial contamination for the dialysate. MEDiaPure can be installed on the bicarbonate mixer or in the distribution loop.

OTHER USES

- ▶ MEDiaPure Filters can be used for purification of hot medical water, a source of bacterial growth and transfer, in hospitals, clinics, and other water applications.

PRODUCT SUMMARY

MediSulfone® UF hollow fiber cross section



Whole protection:

Thanks to the MediSulfone® UF hollow fiber ultrafiltration membrane developed by Medica Group, MEDiaPure prevents all substances with a molecular weight higher than 15K daltons crossing over the membrane. Bacteria, viruses and endotoxins cannot pass the MediSulfone® UF membrane barrier due to two mechanisms: one based on the sieving of the pores and one on the adsorption capability of the membrane itself.

MediSulfone® UF high filtration capabilities derives from the structure of the membrane, the internal skin (1 micron of thickness) has a high density of small pores meanwhile the rest of the structure has sponge-like configuration.

Easy set-up:

Easy connection to medical and industrial systems.
Furthermore, possibility of multiple stations to treat larger water volumes.

Long duration at high water flow:

Models available:

- ▶ MEDiaPure DSU offers an improved safety, thanks to its double stage filtration (Patent No. WO/2007/055842);
- ▶ MEDiaPure SSU grants a longer working life thanks to a larger filtration surface and also the possibility of chemical, thermic back-washing. MEDiaPure SSU10 offers a small scale solution for water purification.

MEDiaPure DSU and SSU are Medical devices CE marked



Specifications

• Max Inlet Pressure	7 bar
• Max Inlet Temperature	50°C
• Flow (at 3 bar)	9 l/min for DSU 19 l/min for SSU; 5 l/min SSU10
• Filter Membrane	MediSulfone® UF
Material	Polysulfone
MW cut-off / Pore Size	15kDa / 0.005 µm
Bacterial Retention	> 10 ¹⁰ (B. Diminuta)
Virus Retention	> 10 ⁸ (PhiX-174)
Endotoxin Retention	> 10 ⁵ EU/ml
• Expected life	10.000 l for DSU
With prefiltration (1 µm)	15.000 l for SSU 2.000 l for SSU10
• Filter dimensions: Length 370 mm; Diameter 80 mm DSU- SSU	
Length 165 mm; Diameter 50 mm SSU10	
• Fiber surface	2 m ² stage I, 1 m ² stage II (DSU) 3 m ² (SSU), 0.5 m ² (SSU10)

Product codes

M03316*	MEDiaPure DSU (EO)	1/2" thread connectors
M03502*	MEDiaPure SSU (EO)	1/2" thread connectors
M03472*	MEDiaPure DSU (EO)	colder connectors
M03699*	MEDiaPure SSU (EO)	colder connectors
M03530*	MEDiaPure SSU10 (EO)	3/8" thread connectors

* available also not sterile

Technical features are subject to change without prior notice at the discretion of Medica SpA

This document does not have contractual value



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