



## NEPHROS DUAL STAGE ULTRAFILTER (DSU)

### AAMI MICROBIOLOGICAL STANDARDS FOR DIALYSIS WATER

Microbiological Level	Current Standards	
Colony Forming Units	< 100 CFU/mL	Action Level $\geq$ 50 CFU/mL
Endotoxin Units	< 0.25 EU/mL	Action Level $\geq$ 0.125 EU/mL

#### DESCRIPTION:

The Nephros Dual Stage UltraFilter Capsule helps you achieve the low levels of contaminants per the AAMI microbiological standards. With its 0.005 micron filter pore size, the Nephros DSU removes a spectrum of bacteria, viral agents and biological toxins (including endotoxin) down to the required levels of the current standards.

#### FEATURES:

- Withstands multiple disinfection cycles without degrading the fibers
- Acts as a firewall for the patient by blocking microbiological contaminants like no other filter of this nature can
- Provides up to 12 months of performance life in frequent use
- Proven durability combined with safety and reliability of true redundant ultra filtration
- Flow rate 1 gpm @ 15 psi pressure drop



Two Filtering Stages for Built-In Redundancy

SPECIFICATIONS	
Sterilization Method	Ethylene Oxide
Max Inlet Pressure	75 psi (5 bar)
Filter Membrane	Medisulfone®
Material	Polysulfone
Pore Size	0.005 $\mu$ m
Bacteria Retention	$>10^{11}$ ( <i>B. diminuta</i> )
Virus Retention	$>10^8$ (PhiX-174)
Endotoxin Retention	$>10^5$ EU/mL
Dimensions In. (L x D)	13 x 2.5
Connections	CPC (APC)
Recommended Replacement	One year

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#### For use with Portable RO's

Some portable RO's have bacteria build up due to infrequent use. The Nephros DSU provides additional security in an acute setting to ensure the highest quality water for the patient.

#### For use with Individual Dialysis Stations

Endotoxin and/or bacteria can colonize in the RO water loop. The Nephros at each wall box is a final safeguard to ensure that the water going to the dialysis machine is ultrapure.

#### DISINFECTION:

The DSU is compatible with most common water loop disinfection chemicals it can be subject to the following disinfectants for 1 year of weekly exposures with no degradation in safety or efficacy.

1% Renalin, 1% Bleach, 2% Vinegar, 176°F Water, Hydrochloric Acid/Sodium Hydroxide (monthly)

#### STANDARDS:

- FDA 510K Cleared for the dialysis market

Models	Description
0020-0001	Nephros Field Install Kit & Capsule for MROS, MRO1 and other portables
0020-0004	Nephros Field Install Kit & Capsule for Wall Box
20-0009	Nephros Capsule in Sterile Sleeve