

Nephros Inline Filters for Dialysis Water and Bicarbonate

U.S. FDA 510(k)-Cleared

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DSU-D

- Dual-stage filtration design



SSU-D

- Single-stage filtration design



SSUmini

- Compact design for portable ROs
- Economical design for low flow situations



Product Summary

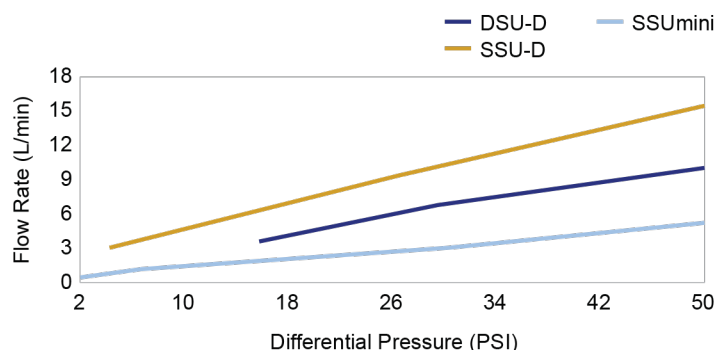
- Removes bacteria, viruses, endotoxins and other contaminants greater than 5 nm (0.005 micron)
- Unique, proprietary design available in three sizes
- Expected life of 1 year results in lower filter maintenance costs
- Used as final filter to prepare centralized water and bicarbonate for HD machines
- Used as a polishing filter for portable ROs
- Assists in preparing water or bicarbonate concentrate to meet the requirements for the production of ultrapure dialysate according to the ISO 23500-5:2019 standard

Specifications

	DSU-D	SSU-D	SSUmini
Compatible Disinfection⁽¹⁾	Chemical, Heat	Chemical, Heat	Chemical, Heat
Max Inlet Pressure	75 psi (5 bar)	75 psi (5 bar)	75 psi (5 bar)
Filter Membrane⁽²⁾	Medisulfone®	Medisulfone®	Medisulfone®
Material	Polysulfone	Polysulfone	Polysulfone
Pore Size	5 nm (0.005 micron)	5 nm (0.005 micron)	5 nm (0.005 micron)
Bacteria Retention	>10 ¹¹ (B. diminuta)	>10 ¹¹ (B. diminuta)	>10 ¹¹ (B. diminuta)
Virus Retention	>10 ⁸ (PhiX-174)	>10 ⁸ (PhiX-174)	>10 ⁸ (PhiX-174)
Endotoxin Retention	>10 ⁵ EU/ml	>10 ⁵ EU/ml	>10 ⁵ EU/ml
Dimensions	13" L x 2.5"D	7" L x 2.5" D	6" L x 2" D
Connections Recommended	QC (CPC (APC))	QC (CPC (APC))	3/8" BSPP
Replacement	1 year	1 year	1 year
Safety	Dual-Stage Filtration	Single-Stage Filtration	Single-Stage Filtration
~60kDa Particle Retention	>10 ⁴ (Hgb)	>10 ² (Hgb)	>10 ² (Hgb)

The use of ultrapure dialysate in hemodialysis may result in a decrease in markers of inflammation and oxidative stress, and a decrease in erythropoietin resistance.^(3,4) The DSU-D, SSU-D and SSUmini can be used as the last component in the water or bicarbonate purification process to assist with the delivery of water or bicarbonate concentrate for the production of ultrapure dialysate.

Clean Water Flow



Product Numbers

70-0235D	DSU-D Filter
70-0243D	SSU-D Filter
70-0242	SSUmini Filter (3/8" BSPP)
70-0251	SSUmini Filter (1/4" John Guest)

Install Kit

70-0294	Dialysis Install Kit
70-0266	SSUmini Adapter Kit (3/8" BSPP – 1/4" Barb)

(1) Heat Disinfection: Weekly 30-minute cycles @ 85 C (See individual product Instruction for Use for disinfection requirements)

(2) Medisulfone® is a registered trademark of Medica S.p.A.

(3) Sitter T, Bergner A, Schiff H, Dialysate related cytokine induction and response to recombinant human erythropoietin in hemodialysis patients, Neph Dial Trans 2000; 15:1207-1211

(4) Susantitaphong P, Riella C, Jaber BL, Effect of ultrapure dialysate on markers of inflammation, oxidative stress, nutrition and anemia parameters: a meta-analysis, Neph Dial Trans 2013; 28:438-446