

Nephros Dialysis Filters for Portable RO/DI Equipment

In-line fluid purification for dialysis

Nephros dialysis filters offer advanced purification and polishing of water and bicarbonate concentrate. These filters are intended for in-line application following other water treatment equipment, such as reverse osmosis (RO), to assist in providing dialysis-quality water.

DSU-D

- Our most robust option, suitable for higher-volume setups
- Dual-stage ultrafiltration offers redundant purification step for added protection



SSU-D

- A mid-range option suitable for reduced pressure and space requirements
- Single-stage ultrafiltration offers effective performance with a smaller footprint



Contact us for more information
(201) 343-5202
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SSUmini

- Our most compact model, ideal for supporting low-flow setups
- Small footprint enables custom integrations within portable RO or dialysis equipment



Features & Benefits

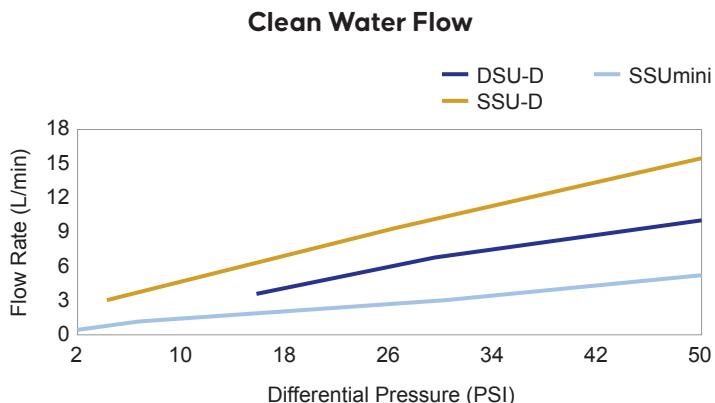
- FDA 510(k)-cleared as Class II filters to assist in preparation of water or bicarbonate concentrate for hemodialysis
- Effective barriers for bacteria, viruses, and endotoxins
- Proprietary hollow-fiber membrane technology
- 0.005 micron pore size retains contaminants through size exclusion
- Three size configurations to accommodate a range of installations upstream of dialysis machines
- Long, continuous filter life up to 12 months (1 year)

The endotoxin retention of Nephros dialysis filters exceeds the ISO 23500-5 standard for ultrapure dialysate production

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)
Material	Polysulfone	Polysulfone	Polysulfone
Pore Size	0.005 micron	0.005 micron	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	Up to 1 year	Up to 1 year	Up to 1 year
Filtration Type	Dual-stage ultrafiltration	Single-stage ultrafiltration	Single-stage ultrafiltration
~60kDa Particle Retention	>10 ⁴ (Hgb)	>10 ² (Hgb)	>10 ² (Hgb)

The use of ultrapure dialysate in hemodialysis may decrease markers of inflammation and oxidative stress, and reduce erythropoietin resistance.^(2,3)



Filters

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

Install Kits / Accessories

70-0294	Dialysis Install Kit
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(1) Heat Disinfection: Weekly 30-minute cycles @ 85°C (see individual product Instructions for Use for disinfection requirements).

(2) 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

(3) 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