

Nephros Dual Stage Ultrafilter (DSU-D)

Filters Water or Bicarbonate Concentrate for use in Hemodialysis Devices

The Nephros Dual Stage Ultrafilter (DSU-D) assists in preparing water or bicarbonate concentrate to meet the requirements for the production of ultrapure dialysate according to the ANSI/AAMI 11663:2014 standard. The filter's unique proprietary 2-stage filter design enables all the filtration to occur in the first stage while the second stage serves as a redundant safety filter. The DSU-D filter removes bacteria, viruses, endotoxins and other contaminants greater than 5 nanometers, and has an expected life of one year.

Standard Features

- To be used in conjunction with other water treatment equipment
- Unique proprietary 2-stage filter design
- Removes bacteria, viruses, endotoxins and other contaminants greater than 5 nm
- Withstands chemical and heat disinfection procedures
- Compatible with Wall Box or Individual RO Installation
- Not made with BPA
- Expected life of one year
- Dialysis Kit for complete and easy installation in various settings
- Carries a 510(k) clearance

Medical Device



Technical Data

Specifications	Nephros DSU-D
Compatible Disinfection Methods	Chemical, Heat
Max Inlet Pressure	75 psi (5 bar)
<u>Filter Membrane</u>	Medisulfone®
Material	Polysulfone
Pore Size	5 nm
Bacteria Retention	> 10 ¹¹ (<i>B. diminuta</i>)
Virus Retention	>10 ⁸ (PhiX-174)
Endotoxin Retention	> 10 ⁵ EU/ml
Dimensions	13" L x 2.5" D
Connections	CPC (APC)
Recommended Replacement	1 year

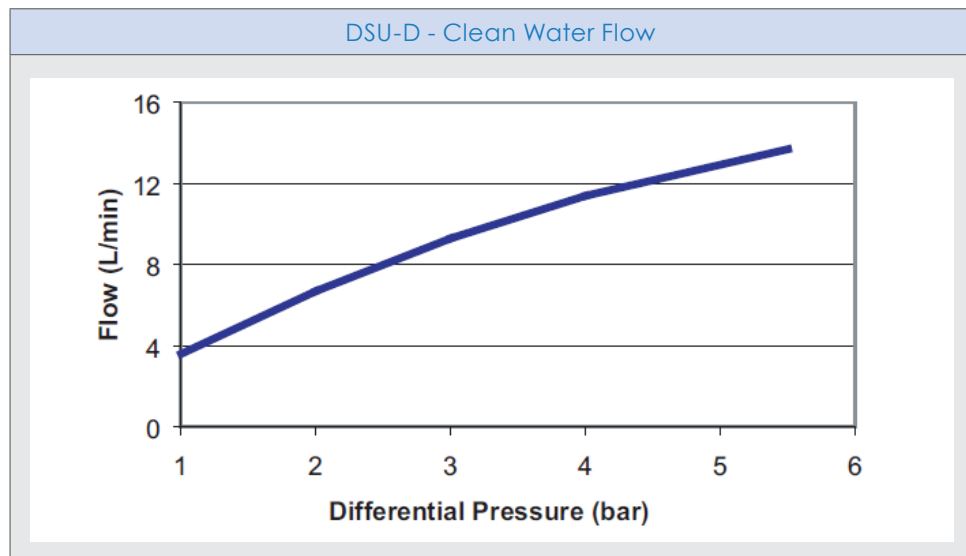
Ordering Information

Part	Part Number	Description
DSU-D Filter	3029360	Filter Only
Dialysis Install Kit	3029362	Quick connects, Mounting clips and hardware, hose, clamps, check valve, and sample port



Clean Water Flow

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.^{1,2} The DSU-D can be used as the last component in the water or bicarbonate concentrate purification process to assist with the delivery of water or bicarbonate concentrate for the production of ultrapure dialysate.



References

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

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Nephros Dual Stage Ultrafilter (DSU-D) is manufactured by Nephros, Inc.



Mar Cor Purification
4450 Township Line Road
Skipack, PA 19474-1429
Tel: (484) 991-0220
Toll Free: (800) 346-0365
Fax: (484) 991-0230

Mar Cor Purification
14550 28th Avenue North
Plymouth, MN 55447
Tel: (484) 991-0220
Toll Free: (800) 633-3080
Fax: (763) 210-3868

Mar Cor Purification
3250 Harvester Road - Unit 6
Burlington, ON L7N 3W9
Tel: (905) 639-7025
Toll Free: (800) 268-5035
Fax: (905) 639-0425

Mar Cor Purification
Sourethweg 11
6422 PC Heerlen
The Netherlands
Tel: (+31) 45 5471 471
Fax: (+31) 45 5429 695

Mar Cor Purification
1A International
Business Park, #05-01
Singapore 609933
Tel: (+65) 6227 9698
Fax: (+65) 6225 6848