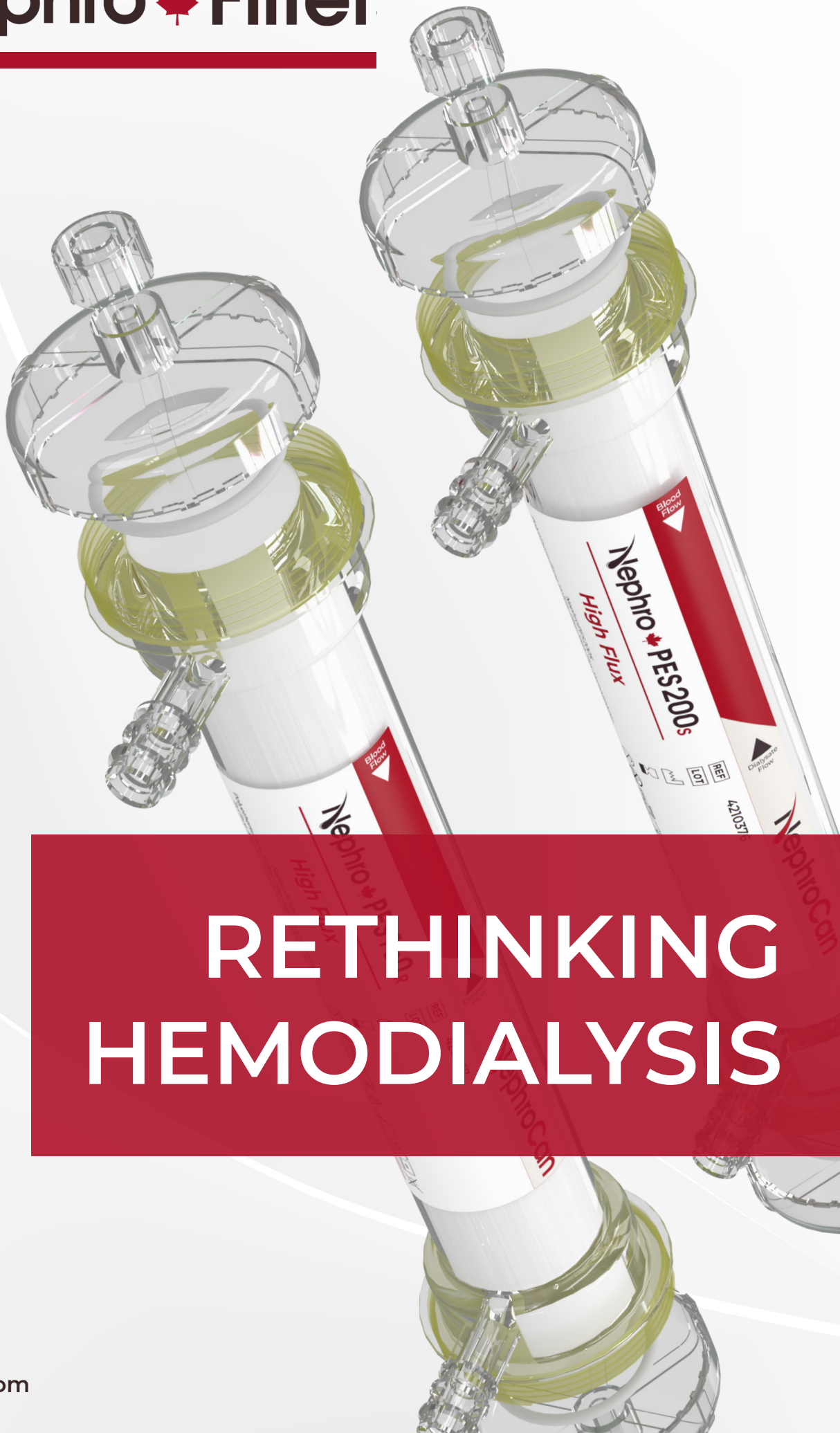
Nephro Filter™

POLYETHERSULFONE DIALYZER

NephroCan



RETHINKING HEMODIALYSIS

2025

www.NephroCan.com

CANADIAN LEADER IN HEMODIALYSIS

As a trusted Canadian provider, we are committed to delivering high-quality hemodialysis consumables, machinery, and equipment worldwide. Our goal is to ensure that our offerings are accessible and enhance patient care. We are dedicated to pioneering innovative therapies that revolutionize renal therapy, improving outcomes and enhancing the quality of life for patients globally.

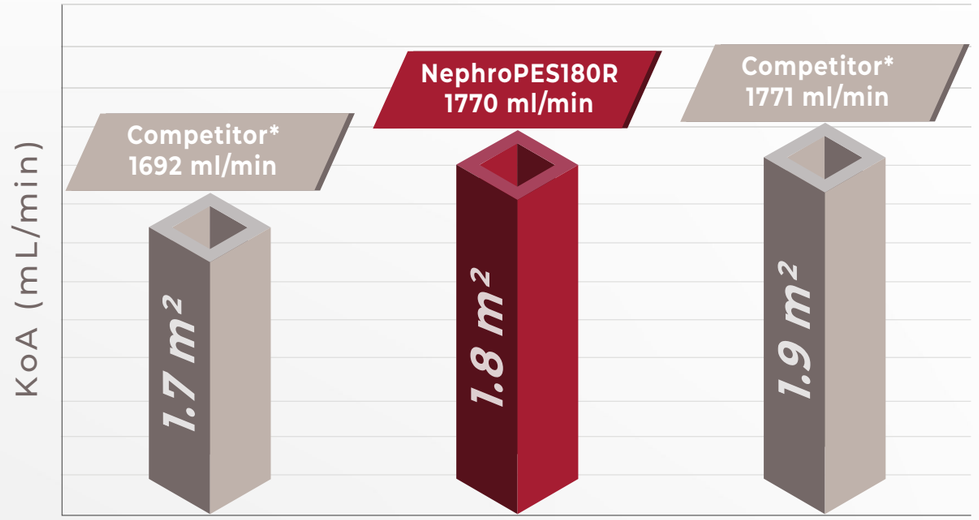
HIGH FLUX POLYETHERSULFONE HEMODIALYZER FILTERS

Polyethersulfone High Flux Hollow Fiber Hemodialyzer Specifications*						
Sterilized with Gamma Irradiation (R)						
		Blood Flow Rate (mL/min)	NephroPES130R	NephroPES160R	NephroPES180R	NephroPES200R
Clearances (mL/min)	Urea	QB= 200	197	196	198	199
		QB= 300	270	285	288	291
	Creatinine	QB= 200	192	193	197	197
		QB= 300	255	269	279	286
	Phosphate	QB= 200	181	189	194	196
		QB= 300	236	254	262	279
	Vitamin B_{12}	QB= 200	147	160	165	172
		QB= 300	168	186	194	211
	Inulin	QB= 200	107	120	127	132
		QB= 300	116	134	144	154
Surface Area (m^2)			1.3	1.6	1.8	2.0
Blood Priming Volume (mL)			72	89	110	114
Ultrafiltration Coefficient (mL/mmHg.Hr)			58.3	67.0	84.2	87.5
KoA (mL/ min)			1140	1610	1770	1980
Membrane						
Membrane Material			Synthetic Polyethersulfone			
Wall Thickness (µm)			30 ± 5			
Inner Diameter (µm)			200 ± 15			
Maximum TMP (mmHg)			500			
Sieving Coefficient**						
β2-Microglobulin			> 0.5			
Albumin			< 0.002			

QB: Blood flow rate
QF: Ultrafiltration rate
QD: Dialysate flow rate
*Specifications and performance data at QB = 200/300 mL/min, QD = 500 mL/min, QF = 0 mL/min, T: 37 °C. Performance data was measured in vitro as according to standards BS EN ISO 8637-1:2020. Clearance data may vary depending on testing conditions
**Sieving coefficient is an absolute value that is related to the hollow membrane fiber

L720RDG010 R02, 2025 Jan 01

REMOVAL OF UREMIC TOXINS IN HIGH FLUX DIALYZERS



Specifications and performance based on NephroCan's PES 1.8M² Polyethersulfone membranes.
QB = 300 mL/min, QD = 500 mL/min, QF = 0 mL/min
*Specifications and performance based on public data available on competing hemodialyzers with Polyethersulfone membranes.
QB = 300 mL/min, QD = 500 mL/min, QF = 10 mL/min

NEPHROFILTER CHARACTERISTICS

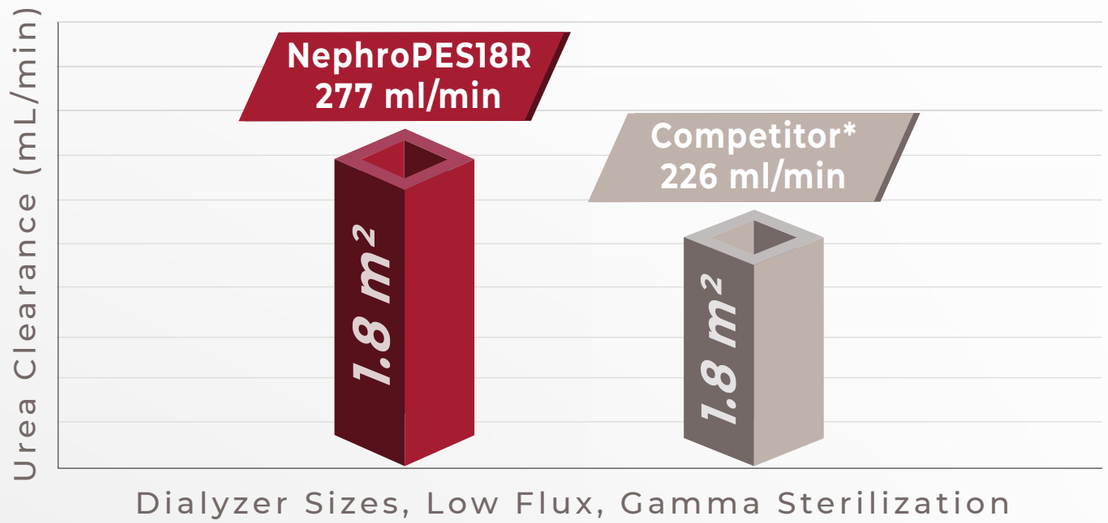
LOW FLUX POLYETHERSULFONE HEMODIALYZER FILTERS

Polyethersulfone Low Flux Hollow Fiber Hemodialyzer Specifications*							
Sterilized with Gamma Irradiation (R)							
		Blood Flow Rate (mL/min)	Nephro PES10R	Nephro PES13R	Nephro PES16R	Nephro PES18R	Nephro PES20R
Clearances (mL/min)	Urea	Q_B= 200	174	185	190	197	198
		Q_B= 300	220	237	251	277	283
	Creatinine	Q_B= 200	158	172	180	184	190
		Q_B= 300	190	212	230	258	267
	Phosphate	Q_B= 200	137	152	161	171	178
		Q_B= 300	157	180	192	212	228
	Vitamin B_{12}	Q_B= 200	98	117	126	134	141
		Q_B= 300	107	131	141	152	159
	Inulin	Q_B= 200	-	-	-	-	-
		Q_B= 300	-	-	-	-	-
Surface Area (m^2)			1.0	1.3	1.6	1.8	2.0
Blood Priming Volume (mL)			59	71	90	112	114
Ultrafiltration Coefficient (mL/mmHg.hr)			8.8	10.9	12.7	17.9	20.7
KoA (mL/ min)			556	689	836	1320	1530
Membrane							
Membrane Material			Synthetic Polyethersulfone				
Wall Thickness (µm)			35 ± 5				
Inner Diameter (µm)			200 ± 15				
Maximum TMP (mmHg)			500				

QB: Blood flow rate
QF: Ultrafiltration rate
QD: Dialysate flow rate
*Specifications and performance data at QB = 200/300 mL/min, QD = 500 mL/min, QF = 0 mL/min, T: 37 °C. Performance data was measured in vitro according to standards BS EN ISO 8637-1:2020. Clearance data may vary depending on testing conditions

L720RDG010 R02, 2025 Jan 01

REMOVAL OF UREMIC TOXINS IN LOW FLUX DIALYZERS



Specifications and performance based on NephroCan's PES 1.8M² Polyethersulfone membranes.
QB = 300 mL/min, QD = 500 mL/min, QF = 0 mL/min
*Specifications and performance based on public data available on average competing hemodialyzers with Polyethersulfone membranes. QB = 300 mL/min, QD = 500 mL/min, QF = Not Reported

NEPHROFILTER CHARACTERISTICS

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NephroCan Inc.
Suite 940-1040 West Georgia St. Vancouver, BC V6E 4H1
Canada

EC REP

NephroCan S.r.l.
Via Savoia 78 00198 Roma, Italy
www.NephroCan.com/EU-Rep

Phone:
+1 (604) 922-3110

Fax:
+1 (604) 922-3160

Email:
info@NephroCan.com
sales@NephroCan.com

Website:
www.NephroCan.com