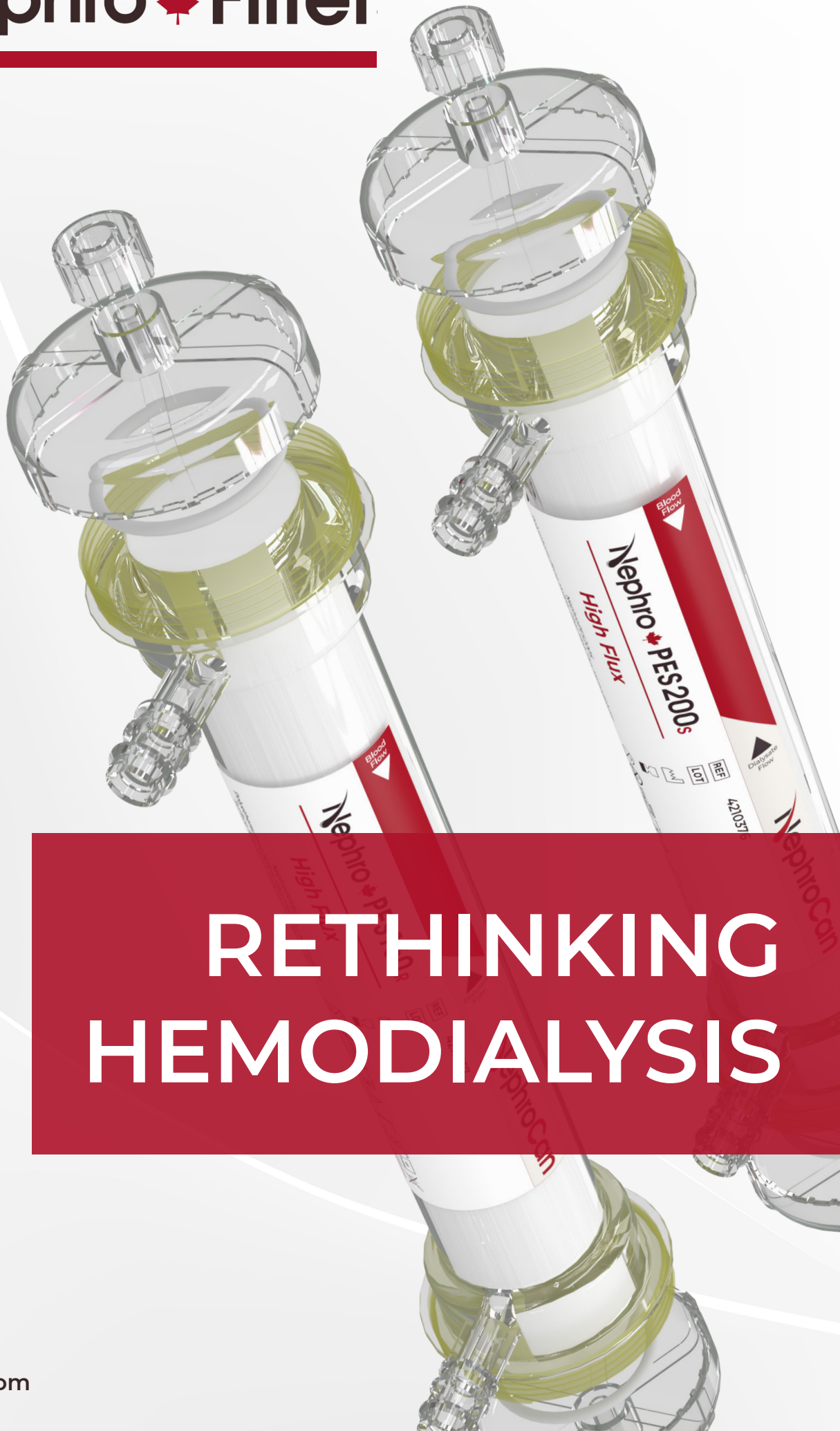


Nephro Filter™

NephroCan

POLYETHERSULFONE DIALYZER



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.

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HIGH FLUX POLYETHERSULFONE HEMODIALYZER FILTERS

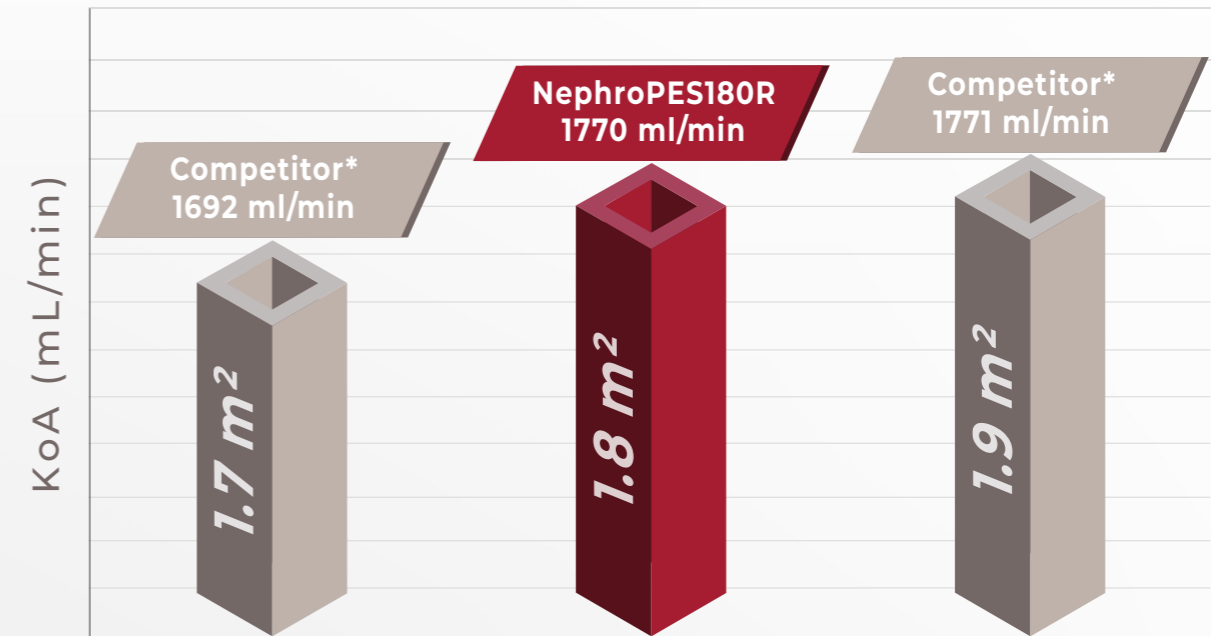
Polyethersulfone High Flux Hollow Fiber Hemodialyzer Specifications*						
Sterilized with Gamma Irradiation (R)						
Clearances (mL/min)	Blood Flow Rate (mL/min)	NephroPES130R	NephroPES160R	NephroPES180R	NephroPES200R	
		Urea	QB= 200	197	196	198
	QB= 300	270	285	288	291	
Creatinine	QB= 200	192	193	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.

REMOVAL OF UREMIC TOXINS IN HIGH FLUX DIALYZERS



Dialyzer Sizes, High Flux, Gamma Sterilization

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

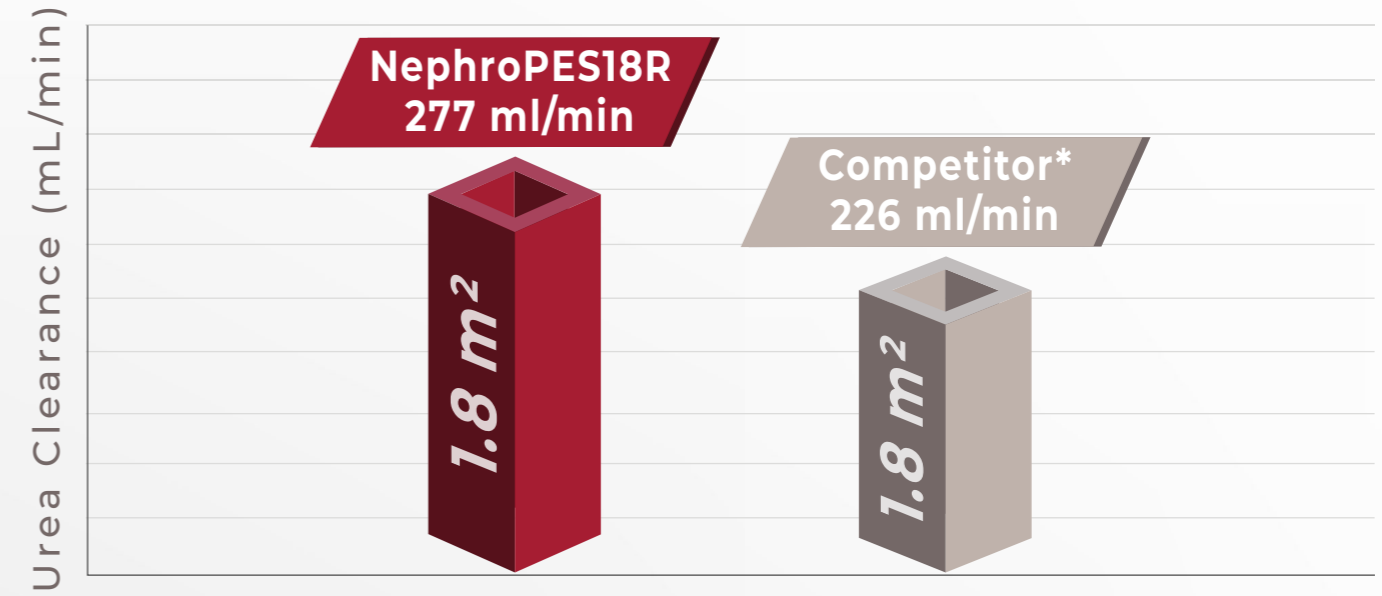
NEPHROFILTER CHARACTERISTICS



LOW FLUX POLYETHERSULFONE HEMODIALYZER FILTERS

REMOVAL OF UREMIC TOXINS IN LOW FLUX DIALYZERS

Polyethersulfone Low Flux Hollow Fiber Hemodialyzer Specifications*							
Sterilized with Gamma Irradiation (R)							
Clearances (mL/min)		Blood Flow Rate (mL/min)	Nephro PES10R	Nephro PES13R	Nephro PES16R	Nephro PES18R	Nephro PES20R
			Urea	QB= 200	174	185	190
		QB= 300	220	237	251	277	283
Creatinine		QB= 200	158	172	180	184	190
		QB= 300	190	212	230	258	267
Phosphate		QB= 200	137	152	161	171	178
		QB= 300	157	180	192	212	228
Vitamin B ₁₂		QB= 200	98	117	126	134	141
		QB= 300	107	131	141	152	159
Inulin		QB= 200	-	-	-	-	-
		QB= 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					



Dialyzer Sizes, Low Flux, Gamma Sterilization

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



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.



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