

Nephro Filter™



POLYSULFONE DIALYZER



NephroCan
www.NephroCan.com



CANADIAN LEADER IN HEMODIALYSIS



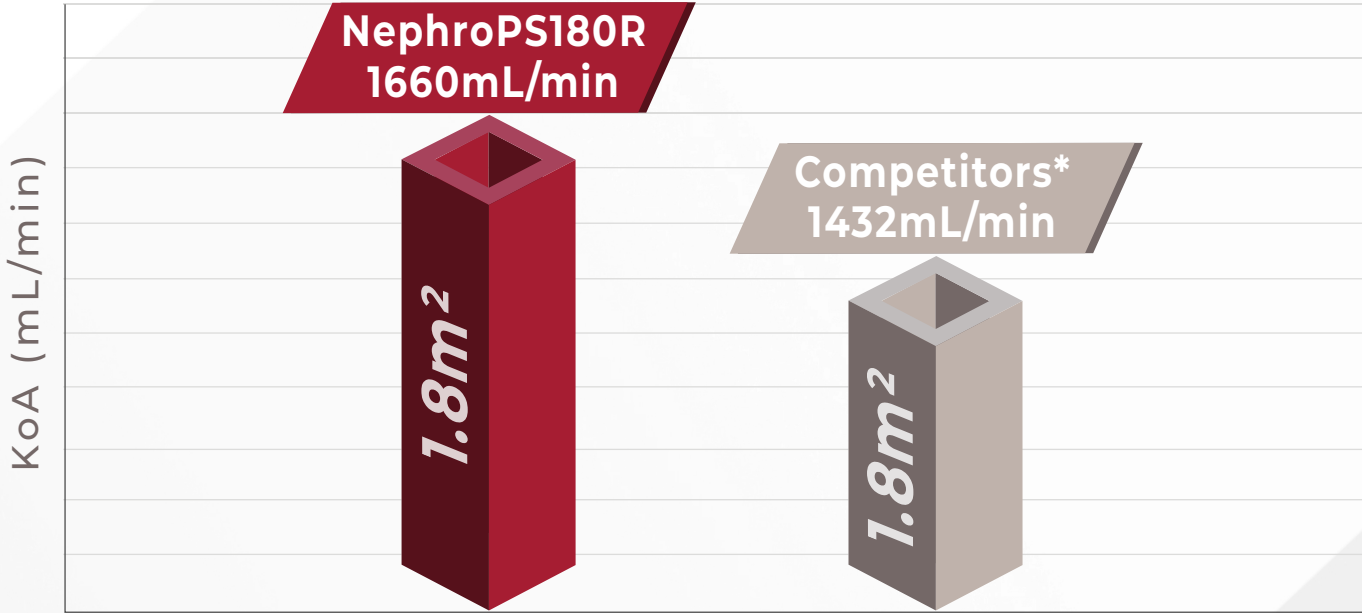
As a trusted Canadian provider, we are committed to delivering high-quality hemodialysis consumables, machinery, and equipment worldwide. Our goal is to ensure that our offerings are accessible and enhance patient care. We are dedicated to pioneering innovative therapies that revolutionize renal therapy,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

HIGH FLUX POLYSULFONE HEMODIALYZER FILTERS

Polysulfone High Flux Hollow Fiber Hemodialyzer Specifications*												
Sterilized with Gamma Irradiation (R)												
		Blood Flow Rate (mL/min)	Nephro PS100R	Nephro PS130R	Nephro PS140R	**Nephro PS150R	Nephro PS160R	**Nephro PS170R	Nephro PS180R	**Nephro PS190R	Nephro PS200R	Nephro PS220R
Clearances (mL/min)	Urea	QB= 200	190	195	196	197	197	197	198	198	199	199
		QB= 300	258	264	272	278	284	285	286	288	290	293
	Creatinine	QB= 200	173	180	186	189	193	193	194	195	196	198
		QB= 300	217	234	247	257	267	271	276	279	283	291
	Phosphate	QB= 200	160	174	179	183	188	190	192	193	195	196
		QB= 300	199	219	230	239	249	254	259	268	277	288
	Vitamin B ₁₂	QB= 200	113	130	139	146	153	157	161	164	168	174
		QB= 300	127	146	159	168	178	184	190	199	208	221
	Inulin	QB= 200	78	93	104	110	117	121	125	128	131	135
		QB= 300	84	103	113	121	130	135	141	146	152	163
Surface Area (m²)			1.0	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.2
Blood Priming Volume (mL)			59	69	74	82	86	101	105	106	107	116
Ultrafiltration Coefficient (mL/mmHg.hr)			34.6	46.4	50.6	55	59.4	61.5	63.7	69.2	74.6	80.9
KoA (mL/min)			930	1030	1190	1350	1570	1610	1660	1770	1900	2160
Membrane												
Membrane Material			Dry Non-Cellulosic Membrane, High Flux Polysulfone									
Wall Thickness (µm)			40 ± 7									
Inner Diameter (µm)			200 ± 15									
Maximum TMP (mmHg)			500									
Sieving Coefficient***												
β2-Microglobulin			>0.8									
Albumin			<0.001									

QB: Blood flow rate
QF: Ultrafiltration rate
QD: Dialysate flow rate
*Specifications and performance data at QB = 200/300mL/min, QD = 500mL/min, QF = 0mL/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
**In progress
***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 PS 1.8m² High Flux Polysulfone membranes
QB = 300mL/min, QD = 500mL/min, QF = 0mL/min
*Specifications and performance based on public data available on average competing hemodialyzers with Polysulfone membranes
QB = 300mL/min, QD = 500mL/min, QF = 0mL/min

NEPHROFILTER CHARACTERISTICS

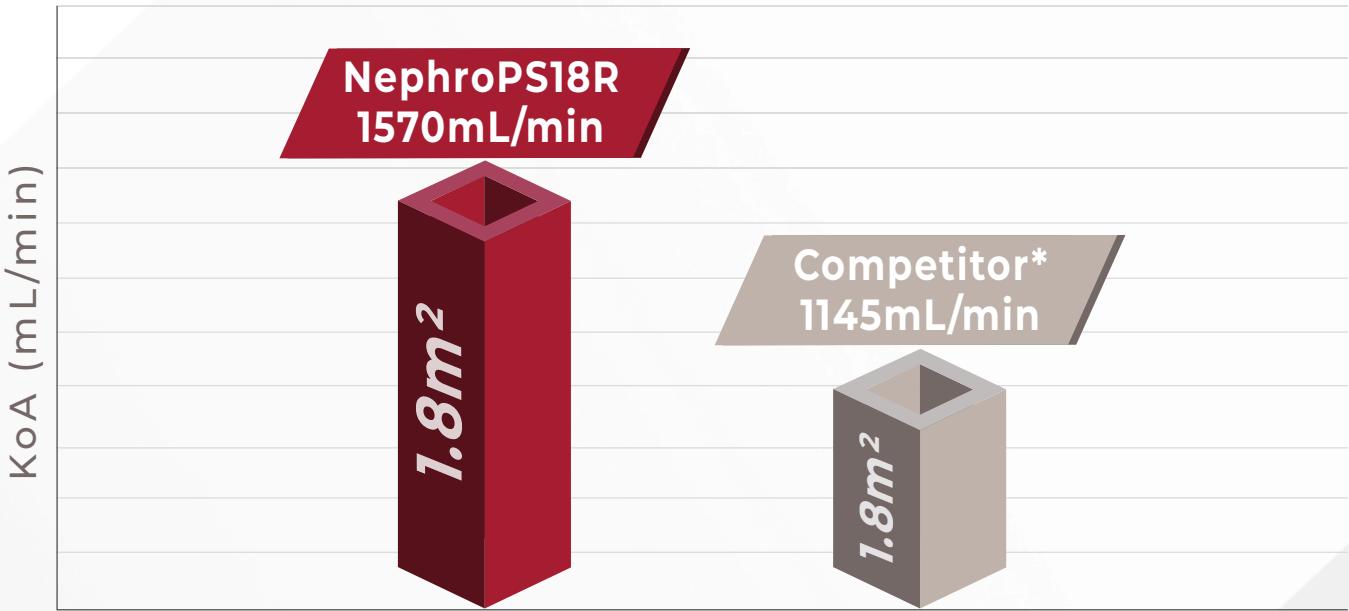


LOW FLUX POLYSULFONE HEMODIALYZER FILTERS

Polysulfone Low Flux Hollow Fiber Hemodialyzer Specifications*												
Sterilized with Gamma Irradiation (R)												
		Blood Flow Rate (mL/min)	Nephro PS10R	Nephro PS13R	Nephro PS14R	**Nephro PS15R	Nephro PS16R	**Nephro PS17R	Nephro PS18R	**Nephro PS19R	Nephro PS20R	Nephro PS22R
Clearances (mL/min)	Urea	QB= 200	187	195	196	197	197	198	198	199	199	199
		QB= 300	238	250	253	263	274	279	284	285	285	291
	Creatinine	QB= 200	167	180	184	186	189	189	189	190	191	193
		QB= 300	201	223	226	234	243	254	265	266	268	283
	Phosphate	QB= 200	143	153	157	160	164	169	174	175	177	182
		QB= 300	161	182	188	192	196	205	215	217	220	234
	Vitamin B ₁₂	QB= 200	79	93	98	108	120	129	139	142	145	149
		QB= 300	84	100	117	126	135	143	156	158	161	176
	Inulin	QB= 200	-	-	-	-	-	-	-	-	-	-
		QB= 300	-	-	-	-	-	-	-	-	-	-
Surface Area (m²)			1.0	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.2
Blood Priming Volume (mL)			59	69	74	82	86	101	105	106	107	110
Ultrafiltration Coefficient (mL/mmHg.hr)			7.3	9.5	11.9	12.9	13.9	15.3	16.7	17.2	17.8	19.8
KoA (mL/min)			698	824	977	1010	1240	1380	1570	1610	1610	1980
Membrane												
Membrane Material			Dry Non-Cellulosic Membrane Low Flux Polysulfone									
Wall Thickness (µm)			40 ± 7									
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 = 200/300mL/min, QD = 500mL/min, QF = 0mL/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
**In progress

REMOVAL OF UREMIC TOXINS IN LOW FLUX DIALYZERS



Dialyzer Sizes, Low Flux, Gamma Sterilization

Specifications and performance based on NephroCan's PS 1.8m² Low Flux Polysulfone membranes
QB = 300mL/min, QD = 500mL/min, QF = 0mL/min
*Specifications and performance based on public data available on average competing hemodialyzers with Polysulfone membranes
QB = 300mL/min, QD = 500mL/min, QF = 0mL/min

NEPHROFILTER CHARACTERISTICS





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