



RETHINKING HEMODIALYSIS

POLYSULFONE DIALYZER BROCHURE



2024

www.NephroCan.com



NephroCan provides a fully integrated product and service offering for patients living with End Stage Renal Disease (ESRD), in accordance with medical device regulations and international standards. NephroCan equipment and consumables are made with high quality components, enabling healthcare providers to customize safe, effective, and efficient dialysis treatments for patients.

CANADIAN LEADER IN HEMODIALYSIS



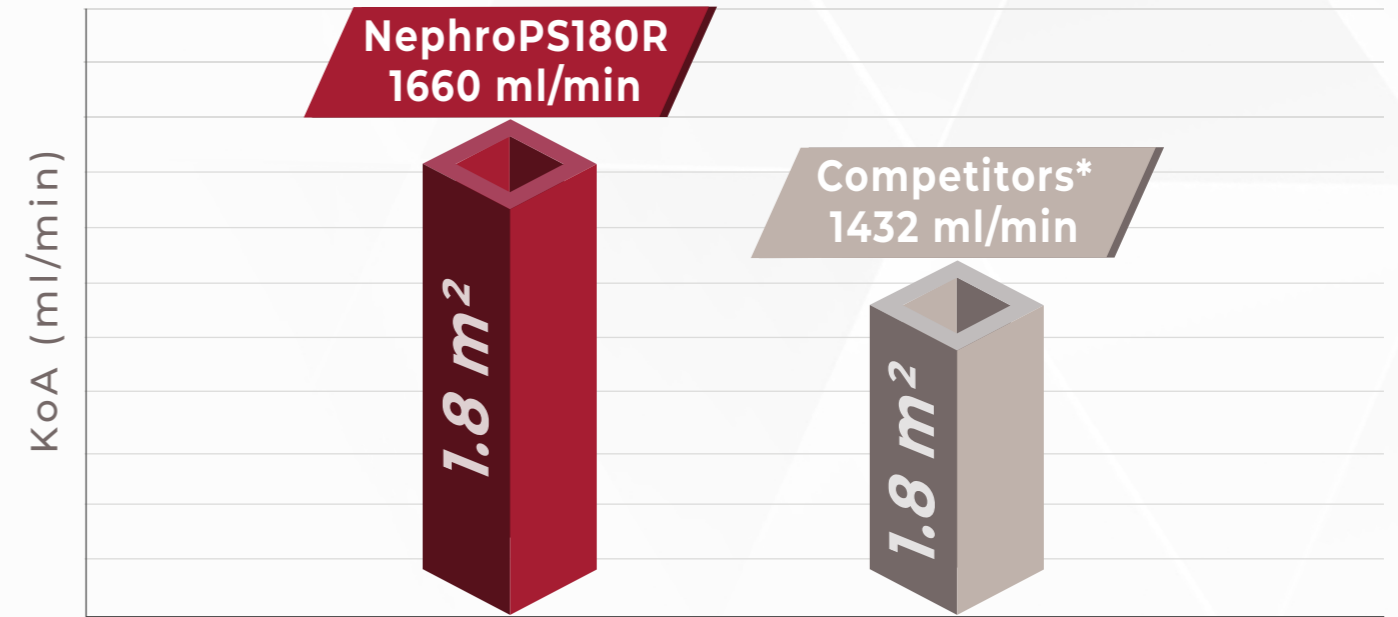
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HIGH FLUX POLYSULFONE SPECIFICATIONS

Polysulfone High Flux Hollow Fiber Hemodialyzer Specifications*									
Sterilized with Gamma Irradiation (R)									
Clearances (mL/min)	Blood Flow Rate (mL/min)	Nephro PS100R	Nephro PS130R	Nephro PS140R**	Nephro PS160R	Nephro PS180R	Nephro PS200R	Nephro PS220R**	
	QB= 300	258	264	272	284	286	290	293	
Creatinine	QB= 200	173	180	186	193	194	196	198	
	QB= 300	217	234	247	267	276	283	291	
Phosphate	QB= 200	160	174	179	188	192	195	196	
	QB= 300	199	219	230	249	259	277	288	
Vitamin B ₁₂	QB= 200	113	130	139	153	161	168	174	
	QB= 300	127	146	159	178	190	208	221	
Inulin	QB= 200	78	93	104	117	125	131	135	
	QB= 300	84	103	113	130	141	152	163	
Surface Area (m ²)		1.0	1.3	1.4	1.6	1.8	2.0	2.2	
Blood Priming Volume (mL)		59	69	74	86	105	107	116	
Ultrafiltration Coefficient (mL/mmHg.hr)		34.6	46.4	50.6	59.4	63.7	74.6	80.9	
KoA (mL/ min)		930	1030	1190	1570	1660	1900	2160	
Membrane									
Membrane Material		Dry Non-Cellulosic Membrane High Flux Polysulfone							
Wall Thickness (µm)		40							
Inner Diameter (µm)		200							
Maximum TMP (mmHg)		500							
Sieving Coefficient***									
β ₂ -Microglobulin		> 0.8							
Albumin		< 0.001							

QB: Blood flow
 QF: Ultrafiltration flow
 QD: Dialysate flow
 *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.
 ** Sizes available based on request
 *** Sieving coefficient is an absolute value that is related to the fiber itself.

REMOVAL OF UREMIC TOXINS IN HIGH FLUX DIALYZERS



Dialyzer Sizes, High Flux, Gamma Sterilization

Membrane: Polysulfone | Values based on QB = 300ml/min, QD = 500ml/min, QF: 0ml/min.
 Competitors: QB = 300ml/min, QD = 500ml/min, QF: 0ml/min.
 *Average of competing dialyzers in industry

NEPHROFILTER CHARACTERISTICS

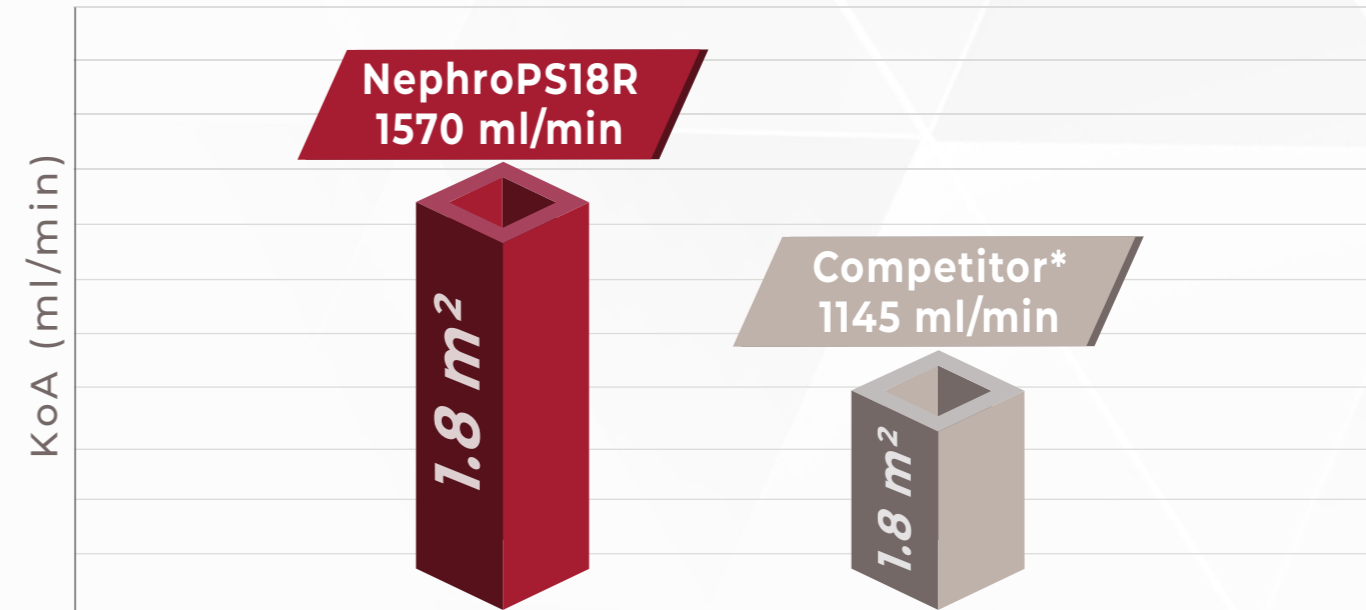


LOW FLUX POLYSULFONE SPECIFICATIONS

Polysulfone Low Flux Hollow Fiber Hemodialyzer Specifications*									
Sterilized with Gamma Irradiation (R)									
Clearances (mL/min)	Blood Flow Rate (mL/min)	Nephro PS10R	Nephro PS13R	Nephro PS14R**	Nephro PS16R	Nephro PS18R	Nephro PS20R	Nephro PS22R**	
		Urea	QB= 200	187	195	196	197	198	199
	QB= 300	238	250	253	274	284	285	291	
Creatinine	QB= 200	167	180	184	189	189	191	193	
	QB= 300	201	223	226	243	265	268	283	
Phosphate	QB= 200	143	153	157	164	174	177	182	
	QB= 300	161	182	188	196	215	220	234	
Vitamin B ₁₂	QB= 200	79	93	98	120	139	145	149	
	QB= 300	84	100	117	135	156	161	176	
Inulin	QB= 200	-	-	-	-	-	-	-	
	QB= 300	-	-	-	-	-	-	-	
Surface Area (m ²)		1.0	1.3	1.4	1.6	1.8	2.0	2.2	
Blood Priming Volume (mL)		59	69	74	86	105	107	110	
Ultrafiltration Coefficient (mL/mmHg.hr)		7.3	9.5	11.9	13.9	16.7	17.8	19.8	
KoA (mL/ min)		698	824	977	1240	1570	1610	1980	
Membrane									
Membrane Material		Dry Non-Cellulosic Membrane Low Flux Polysulfone							
Wall Thickness (µm)		40							
Inner Diameter (µm)		200							
Maximum TMP (mmHg)		500							

QB: Blood flow
 QF: Ultrafiltration flow
 QD: Dialysate flow
 *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.
 ** Sizes available based on request

REMOVAL OF UREMIC TOXINS IN LOW FLUX DIALYZERS



Dialyzer Sizes, Low Flux, Gamma Sterilization
 Membrane: Polysulfone | Values based on QB = 300ml/min, QD = 500ml/min, QF: 0ml/min.
 Competitor: QB = 300ml/min, QD = 500ml/min, QF: 0ml/min.
 *Based on competing dialyzer in industry

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