

SmartFlux

PUREMA® DIALYZERS

Designed with expertise,
chosen with confidence



SmartFlux

HFP 120 130 150 170
190 210 230

**HIGH FLUX
PUREMA® DIALYZERS**

SmartFlux

LFP 110 120 140 160
180 200 220

**LOW FLUX
PUREMA® DIALYZERS**

SmartFlux

HFP 270

**2,7m² HIGH FLUX
PUREMA® DIALYZER
FOR HIGH VOLUME
HEMODIAFILTRATION**

MEDICA
SEAMLESS INNOVATION FOR LIFE QUALITY

TECHNICAL SPECIFICATIONS & PERFORMANCES



SmartFlux HFP eliminates middle molecular weight toxins without loss of usefull proteins.
SmartFlux HFP is available in 8 different surface areas, tailored to meet patients needs.

MODEL	SmartFlux HPF120	SmartFlux HPF130	SmartFlux HPF150	SmartFlux HPF170	SmartFlux HPF190	SmartFlux HPF210	SmartFlux HPF230	SmartFlux HPF270
Surface (m²)	1.2	1.3	1.5	1.7	1.9	2.1	2.3	2.7
Priming blood volume (ml)	69	75	89	101	113	123	133	156
kUf (ml/h/mmHg)	38.2	41.3	47.7	54.1	59.3	68.0	75.9	85.9
SC albumin	0.002							
Clearance (Qb= 200 ml/min; Qd= 500 ml/min; Quf= 10 ml/min / Sieving Coefficient*)								
Urea	190	194	196	197	197	198	198	199
Creatinine	179	184	188	185	194	195	196	197
Phosphate	172	174	178	176	184	187	191	193
Vitamin B12	139	144	149	149	160	152	166	163
Inulin	85	88	97	123	141	147	136	151
Clearance (Qb= 300 ml/min; Qd= 500 ml/min; Quf= 10 ml/min / Sieving Coefficient*)								
Urea	256	262	272	277	277	285	294	295
Creatinine	235	242	250	259	265	280	276	283
Phosphate	214	223	234	242	244	254	258	264
Vitamin B12	157	158	176	185	202	201	205	210
Inulin	89	97	109	153	158	158	152	168
Clearance (Qb= 400 ml/min; Qd= 500 ml/min; Quf= 10 ml/min / Sieving Coefficient*)								
Urea	297	301	321	331	337	344	348	351
Creatinine	262	273	282	292	310	320	333	331
Phosphate	239	244	269	276	288	286	291	300
Vitamin B12	170	180	192	200	214	217	224	231
Inulin	91	95	116	177	191	178	161	178
Tolerance limit: ± 10%								
Membrane	PUREMA® H							
Cut-off (kDa)	45							
Potting compound	Polyurethane							
Cartridge housing material	Polycarbonate							
Sterilisation	Beta rays							
Fiber wall thickness (µm)	30							
Max TMP (mmHg)	600							
Fiber internal diameter (µm)	200							
Product code	M03537	M90098	M03538	M90032	M03539	M90033	M03540	M90081
UDI-DI code	8033772321938	8033772327206	8033772321945	8033772327176	8033772321952	8033772327183	8033772321969	8033772327121

* Sieving coefficient (QF = 30 ml/(min x m2).
In vitro performances according to ISO 8637:2017.

PUREMA® is a registered trademark of Membrana GmbH.

TECHNICAL SPECIFICATIONS & PERFORMANCES



SmartFlux LFP offers enhanced clearance of small molecular uraemic toxins with outstanding stable clearance performance. SmartFlux LFP is available in 7 different surface areas, tailored to meet patients needs.

MODEL	SmartFlux LPF110	SmartFlux LPF120	SmartFlux LPF140	SmartFlux LPF160	SmartFlux LPF180	SmartFlux LPF200	SmartFlux LPF220
Surface (m²)	1.1	1.2	1.4	1.6	1.8	2.0	2.2
Priming blood volume (ml)	66	72	82	94	106	116	127
kUf (ml/h/mmHg)	13.9	14.4	17.6	20.2	22.7	25.2	27.7
Clearance (Qb= 200 ml/min; Qd= 500 ml/min; Quf= 10 ml/min / Sieving Coefficient*)							
Urea	179	180	180	192	191	197	198
Creatinine	156	164	168	161	177	190	192
Phosphate	138	138	141	145	165	175	180
Vitamin B12	88	85	115	94	123	120	131
Inulin	0.72*						
Clearance (Qb= 300 ml/min; Qd= 500 ml/min; Quf= 10 ml/min / Sieving Coefficient*)							
Urea	228	220	245	238	246	270	273
Creatinine	194	198	210	221	227	252	259
Phosphate	169	170	191	191	198	224	235
Vitamin B12	96	99	134	115	143	140	154
Inulin	0.72*						
Clearance (Qb= 400 ml/min; Qd= 500 ml/min; Quf= 10 ml/min / Sieving Coefficient*)							
Urea	254	268	283	283	295	319	329
Creatinine	222	236	246	257	261	297	304
Phosphate	180	184	218	203	225	252	259
Vitamin B12	105	106	130	117	149	151	160
Inulin	0.72*						
Tolerance limit: ± 10%							
Membrane	PUREMA® LX						
Cut-off (kDa)	23						
Potting compound	Polyurethane						
Cartridge housing material	Polycarbonate						
Sterilisation	Beta rays						
Fiber wall thickness (µm)	35						
Max TMP (mmHg)	600						
Fiber internal diameter (µm)	200						
Product code	M03533	M90097	M03534	M90030	M03535	M90031	M03536
UDI-DI code	8033772321891	8033772327190	8033772321907	8033772327152	8033772321914	8033772327169	8033772321921

* Sieving coefficient (QF = 30 ml/(min x m2).
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SmartFlux HPF | PEDIATRIC SYNTHETIC HIGH FLUX DIALYZERS

MODEL	SmartFlux HPF-03	SmartFlux HPF-06
Surface (m ²)	0.3	0.6
Priming blood volume (ml)	21	39
kUf (ml/h/mmHg)	9.4	19.1
SC albumin	0.002	0.002
	Clearance (Qb= 100 ml/min; Qd= 500 ml/min; Quf= 10 ml/min / Sieving Coefficient*)	Clearance (Qb= 200 ml/min; Qd= 500 ml/min; Quf= 10 ml/min / Sieving Coefficient*)
Urea	84	160
Creatinine	73	138
Phosphate	62	130
Vitamin B12	39	88
Inulin	25	55
Membrane	PUREMA® H	
Cut-off (kDa)	45	
Potting compound	Polyurethane	
Sterilisation	Beta rays	
Fiber wall thickness (µm)	30	
Max TMP (mmHg)	600	
Max blood flow rate (ml/min)	150	300
Fiber internal diameter (µm)	200	
Product code	M03690	M03987
UDI-DI code	8033772323338	8033772326674

SmartFlux LFP | PEDIATRIC SYNTHETIC LOW FLUX DIALYZERS

MODEL	SmartFlux LFP-03	SmartFlux LFP-06
Surface (m ²)	0.3	0.6
Priming blood volume (ml)	20	37
kUf (ml/h/mmHg)	4.0	7.6
	Clearance (Qb= 100 ml/min; Qd= 500 ml/min; Quf= 10 ml/min / Sieving Coefficient*)	Clearance (Qb= 200 ml/min; Qd= 500 ml/min; Quf= 10 ml/min / Sieving Coefficient*)
Urea	95	134
Creatinine	72	108
Phosphate	56	79
Vitamin B12	25	47
Inulin	0.72*	0.72*
Membrane	PUREMA® LX	
Cut-off (kDa)	23	
Potting compound	Polyurethane	
Sterilisation	Beta rays	
Fiber wall thickness (µm)	35	
Max TMP (mmHg)	600	
Max blood flow rate (ml/min)	150	300
Fiber internal diameter (µm)	200	
Product code	M03689	M03986
UDI-DI code	8033772323321	8033772326667

* Sieving coefficient (QF = 30 ml/(min x m2).

In vitro performances according to ISO 8637:2017.

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