

Blood Filtration Systems

Meditechlab launches a new dialyser housing designed to improve the dialysance of the widest range of fibres available on the market. The new housing improves the rheology of both blood and dialysate flow, leading to improved clearances while minimizing extra-cellular blood volume. Although beta sterilisation is offered, the reduced polyurethane layer lowers the sensitisation to EO.



Polysulfone MF™ Dialysers

	Ref	UF* ml/mmHg.h	Clearance* ml/min				Sieving Coef Cyt C	V _{ex} (ml)	Surface (m ²)
			Urea	Creatinine	Phosphates	Vit B12			
Low Flux	MF 5	6	170	155	144	45	~15%	72	1.0
	MF 6	7	188	165	163	55	~15%	83	1.3
	MF 7	8	190	171	168	62	~15%	102	1.6
	MF 8	9	193	175	171	68	~15%	140	1.8
	MF 10	11	194	177	174	72	~15%	145	2.0
Mid Flux	MF 15	12	172	157	146	59	~35%	72	1.0
	MF 16	14	189	168	167	65	~35%	83	1.3
	MF 17	16	192	173	173	75	~35%	102	1.6
	MF 18	18	193	178	175	90	~35%	140	1.8
	MF 20	20	194	180	178	93	~35%	142	2.0
High Flux	MF 50	25	175	160	149	90	~63%	72	1.0
	MF 60	35	190	175	169	95	~63%	83	1.3
	MF 70	45	192	181	177	110	~63%	102	1.6
	MF 80	70	193	185	182	119	~63%	140	1.8
	MF 100	80	195	188	188	125	~63%	145	2.0

Polysulfone HF™ Hemofilters & Hemoconcentrators

Ref	UF* ml/mmHg.h	V _{ex} (ml)	Surface (m ²)
HF 1	15-100	45	0.7
HF 2	15-100	70	1.0
HF 3	15-100	82	1.3
HF 4	15-100	140	1.8
HF 5	15-100	145	2.0

Meditechlab®

Polysulfone MX™ high efficiency Dialysers

	Ref	UF* ml/mmHg.h	Clearance* ml/min				Sieving Coef Cyt C	V _{ex} (ml)	Surface (m ²)
			Urea	Creatinine	Phosphates	Vit B12			
Hi Efficiency Flux	MX 10	10	175	159	148	61	≥ 40%	70	1.0
	MX 12	12	180	163	156	65	≥ 40%	75	1.2
	MX 13	13	181	164	157	68	≥ 40%	77	1.3
	MX 14	14	190	170	169	70	≥ 40%	80	1.4
	MX 15	15	191	172	170	73	≥ 40%	90	1.5
	MX 17	17	193	174	175	76	≥ 40%	100	1.7
	MX 19	19	194	179	177	92	≥ 40%	140	1.9
	MX 20	20	195	181	180	95	≥ 40%	155	2.0
	MX 22	22	196	182	181	97	≥ 40%	160	2.2
	Super Flux	MF 100	30	177	161	150	91	≥ 70%	70
MX 120		33	181	164	157	92	≥ 70%	75	1.2
MX 140		35	191	175	170	95	≥ 70%	80	1.4
MX 150		40	192	177	172	100	≥ 70%	90	1.5
MF 170		50	193	181	177	110	≥ 70%	100	1.7
MF 190		70	195	185	182	119	≥ 70%	140	1.9
MF 200		80	196	188	188	125	≥ 70%	155	2.0
MF 220		90	196	189	189	130	≥ 70%	160	2.2

* values at : Q_a = 200 ml/min & Q_b = 500 ml/min : EN 1283

MF™, HF™, MP™, MXP™ are trade marks of Meditechlab

General Manufacturing Data

Raw Materials / Matières Premières		
PES Low Flux fibers	Fiber Diameter $\phi_{ext} = 200 \mu$	Wall thickness $\delta_w = 35 \mu$
PES High Flux fibers	Fiber Diameter $\phi_{ext} = 200 \mu$	Wall thickness $\delta_w = 30 \mu$
Purima High Flux PES fibers	Fiber Diameter $\phi_{ext} = 200 \mu$	Wall thickness $\delta_w = 30 \mu$
PSU Low Flux Fibers	Fiber Diameter $\phi_{ext} = 200 \mu$	Wall thickness $\delta_w = 40 \mu$
PSU High Flux Fibres	Fiber Diameter $\phi_{ext} = 200 \mu$	Wall thickness $\delta_w = 40 \mu$
Housing & blood caps	Coque et capots	Polycarbonate
O-ring	Joint torique	Silicone
Potting material	Empotage	Polyurethane

Chemical specifications / Spécifications chimiques		
Sterilization	Stérilisation	EO & R

Hydraulic specifications / Spécifications hydrauliques		
Maximum TMP	PTM max.	500 mmHg
Residual blood	Restitution	< 1 ml
Pressure drop @ Q _a = 200 ml/min	Perte de charge à Q _a = 200 ml/min	< 30 mm Hg

Manufacturing Standards & Sterilisation / Normes de Fabrication & Stérilisation		
Sterilization	Stérilisation	EO & R / EN 550 & 554
Values at / Valeurs à : Q _a = 200 ml/min & Q _b = 500 ml/min		EN 1283
European Norms	Normes & Directive Européenne	DDM 93/42/EEC ISO 13485 v-2003 ISO 9001 v-2000
US FDA Norms	Normes Américaines	GMP
Notified Body	Organisme Notifié	CE 0086

Packing specifications / Unités de commande		
Number of units per box	Nombre d'unités par carton	20 or 25
Weight of box	Poids du carton	3.5 - 4.5 Kg
Box dimensions	Dimensions du carton	365 x 282 x 220 mm

