

# PEDIATRIC FILTERS

## CARE FROM THE VERY BEGINNING

The MEDICA range of pediatric filters has been developed to create the best treatment for low body weight patients.

MEDICA provides a complete choice of filters to cover all your treatment requirements.

MEDICA uses highly innovative membrane technology to ensure the best treatment option giving your staff more time to care for your most precious patients.



## DIALYSIS

Medica's product range for low body weight patients includes a total of four dialyser models, amongst those, two sizes are high flux and two low flux. All have been developed to obtain the lowest priming volume and provide the best patient care.

### SmartFlux LFP | SYNTHETIC LOW FLUX DIALYZERS

Model	SmartFlux LPF-03	SmartFlux LPF-06
Surface (m <sup>2</sup> )	0.3	0.6
Priming 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*	
Membrane	PUREMAT™ LX	
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   UDI-DI Code	M03986   8033772326667	M03689   8033772323321



### SmartFlux HFP | SYNTHETIC HIGH FLUX DIALYZERS

Model	SmartFlux HPF-03	SmartFlux HPF-06
Surface (m <sup>2</sup> )	0.3	0.6
Priming Volume (ml)	21	39
Kuf (ml/h/mmHg)	9.4	19.1
Sieving coefficient albumin	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	PUREMAT™ 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   UDI-DI Code	M03987   8033772326674	M03690   8033772323338



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

# RANGE FOR LOW BODY WEIGHT PATIENTS

## THERAPEUTIC APHERESIS

To complete its current adult product range MEDICA has developed three new small size plasmafilters based on Versatile-PES® membrane.

 Versatile-PES® is a registered trade mark of MEDICA S.p.A.

Model	Plasmart 25	Plasmart 50	Plasmart 100	Plasmart 200
Hollow fiber material	Versatile-PES® (polyethersulfone)			
Membrane area (m <sup>2</sup> )	0.01	0.05	0.10	0.20
Fiber internal diameter (µm)	300			
Fiber external diameter (µm)	470			
Fiber wall thickness (µm)	85			
Fiber length (mm)	60	127	140	
Filter housing internal diameter (mm)	11	14	24	
Internal Fiber volume (ml)	1.2	3.9	8.6	13.2
Port volume (ml)	0.5		2.4	
Priming blood volume (ml)	2.2	4.4	11	15.6
Max. TMP (mmHg) *	100			
Max. blood flow (ml/min)	20	50	80	100
Plasma flow	10-30 % of blood flow			
Potting compound	Polyetherane			
Cartridge housing material	Copolyester BPA FREE or Polycarbonate			
Cartridge blood port material				
Cartridge blood connectors	LLF	LLM	Twist Lock	
Cartridge filtrate/dialysate connectors	LLF Female luer lock			
Unit (mm) Length	90	155	180	
Sterilization method	ETO or Beta Rays			
Product code ETO Sterile	M90291	M03863	M03864	M03865
UDI-DI Code	8056992332829	8033772327015	8033772327022	8033772327039
Qty/Box	15	10	10	10
Product code Beta Rays Sterile		M03857	M03858	M03859
UDI-DI Code	NA	8033772325479	8033772325486	8033772325493
Qty/Box		15	10	10



\* Tested with human blood (Hct 32 ± 3%; TP 60 ± 5 gr/L)



## CRRT

Leveraging advanced fiber spinning expertise, MEDICA presents MediSulfone®: a high-flux, highly biocompatible polysulfone.

Model	DP03HE	D050	D150
Hollow fiber material	PUREMA™ H	Medisulfone®	
Membrane area (m <sup>2</sup> )	0,3	0,075	0,25
Fiber wall thickness (µm)	30	50	50
Housing inner diameter (mm)	24	14	24
Priming volume (ml)	21	5	19
Max TMP (mmHg)	600		
Potting Material	Polyurethane		
Housing and blood port material	Copolyester		
Blood connectors	Twist Lock	Male Luer Lock	Twist Lock
Effluent connectors	Female Luer Lock		
Ultrafiltration coefficient* (ml/h/mmHg)	9	1,3	5,5
Sieving coefficient	Albumin: about 0,002**	Albumin: 0,004***	
Cut-off (Da)	40.000	50.000	
Sterilization	ETO - Beta rays		
Sterilization validity	3 years		
Product code ETO sterilized UDI-DI Code	M03912 8033772326179	M03698 8033772322379	M03069 8033772320054
Product code Beta sterilized UDI-DI Code	M03915 8033772326193	M03745 8033772323161	M03137 8033772320061
Quantity/box	10	15	10



\*Tests performed according to ISO8637 on bovine blood, Hct 32 ± 3%, TP = 60 ± 5 gr/L

\*\* (QF = 30 ml/(min x m<sup>2</sup>)) \*\*\* Ref. ISO 8637 5.6.2

## CARDIOLOGY

MEDICA hemoconcentrators can be easily inserted in the extracorporeal circuit at any time.

Model	D050	D100	D150	DP03HC
Intended use	Pediatric	Pediatric	Pediatric	Pediatric
Hollow fiber material	Medisulfone® Polysulfone	Medisulfone® Polysulfone	Medisulfone® Polysulfone	PUREMA™ Polyethersulfone
Membrane area (m <sup>2</sup> )	0,07	0,15	0,25	0,3
Fiber inner diameter (µ)	250			200
Fiber wall thickness (µ)	50			30
Priming volume (ml)	6	11,5	19	21
Max TMP (mmHg)	500			
Cartridge blood connectors	MLL	Tube site	Twist lock	
Cartridge filtrate connectors	FLL			
KUF ml/h/mmHg	1.3	3.0	5.5	12
Product code - ETO sterilized	-	-	-	M03957 8033772326216
Product code - Beta sterilized	M03665 8033772328210	M03985 8033772329125	M03098 8033772328227	M03967 8033772326315
Quantity/box	15	15	10	10

