

Polyflux H

DESIGNED FOR:

CONVECTIVE [HDF-HF]

OTHER APPLICABLE THERAPIES:

HFHD [High flux]

MEMBRANE:

POLYAMIX [PAES/PVP/PA, BPA-free]

FOR EFFECTIVE CONVECTIVE THERAPIES

The **Polyflux H** dialyzer series deliver proven biocompatibility¹ with consistent performance. The **Polyflux H** dialyzers effectively support the delivery of high-volume convective therapies² while helping control the loss of essential proteins such as albumin³ particularly challenging at high flows and TMPs.

DESIGNED TO PROMOTE BIOCOMPATIBILITY¹

The **Polyflux H** dialyzers deliver convective treatments (HDF or HF mode), as well regular high-flux hemodialysis.

- Since 1988, over 300 million **Polyflux** dialyzers have been used globally⁴
- Composed of the **Polyamix** membrane, which is BPA-free, the **Polyflux H** dialyzers may limit the risk of clotting events¹
- The **Polyflux H** dialyzers are steam sterilized inside-out, designed to promote biocompatibility, avoiding the risks associated with the exposure to chemicals such as ethylene oxide and manufacturing residues^{5,6}

WITH HIGH CONVECTIVE VOLUMES IN MIND

The **Polyflux H** dialyzers are aimed at delivering stable and high performing convective treatments, supporting a consistent reach of high volumes of substitution fluid.

- Narrow pore size distribution is responsible for a carefully controlled albumin selectivity, combined with an effective permeability to small and conventional middle molecules¹
- The 3-layer-membrane structure has been designed to optimize the combination of high diffusive and convective transport rates, while acting as a barrier to endotoxins⁷
- Facilitates obtention of high convective flow rate, and provides effective clearance of conventional middle molecules such as β_2 -microglobulin (β_2m)^{8,9}



Polyflux H Specifications

MATERIALS	POLYFLUX 140 H	POLYFLUX 170 H	POLYFLUX 210 H
Membrane	Polyamix Polyarylethersulfone, Polyvinylpyrrolidone and Polyamide blend BPA-free		
Potting	Polyurethane (PUR)		
Housing	Polycarbonate (PC)		
Gaskets	Silicone rubber (SIR)		
Protection caps	Polypropylene (PP)		
Sterilization	Steam (inside-out)		
Sterile barrier	Medical Grade Paper		
SPECIFICATIONS	↑	↑	↑
UF-Coefficient (mL/h*mmHg)**	60	70	85
KoA urea*	998	1153	1452
Blood Compartment volume (mL)	94	115	141
Minimum recommended priming volume (mL)		500	
Maximum TMP (mmHg)		600	
Recommended Q _B (mL/min)	200-400	250-500	300-500
Storage conditions	<30°C (or <86°F)		
Units per box	24		
Gross/net weight (g)	274/245	304/275	317/300
MEMBRANE	↑	↑	↑
Effective Membrane Area (m²)	1.4	1.7	2.1
Fiber inner diameter (µm)	215		
Fiber wall thickness (µm)	50		

SIEVING COEFFICIENTS*	POLYFLUX 140 H	POLYFLUX 170 H	POLYFLUX 210 H
Vitamin B12 (1,4 kDa)		1.0	
Inulin (5,2 kDa)		1.0	
β₂-microglobulin (11,8 kDa)**		0.82	
Myoglobin (17 kDa)**		0.37	
Albumin (66,4 kDa)**		0.0022	

* According to ISO 8637-1
 – UF-Coefficient: measured with bovine blood, Hct 32%, Pct 60g/L, 37°C
 – KoA urea: calculated at Q_B=300 mL/min, Q_D=500 mL/min, UF=0 mL/min
 – Sieving coefficients: measured with bovine (or human*) plasma, Q_B=300 mL/min, UF=60 mL/min
 – Clearances In-Vitro: measured at UF=0 mL/min, ±10%
 HDF/HF mode: measured at UF=60 mL/min, ±10%

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- Baxter. Data on file. *Dialyzers Sales Report*. 2018.
- Golli-Bennour EE, et al. *Cytotoxic effects exerted by polyarylsulfone dialyser membranes depend on different sterilization processes*. Int Urol Nephrol. 2011; 43:483-490.
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The capillary dialyzer/filter is intended for use in hemodialysis, hemodiafiltration and hemofiltration for the treatment of chronic or acute renal failure. The products meet the applicable provisions of Annex I (Essential Requirements) and Annex II (Full quality assurance system of the Council Directive 93/42/EEC of 14 June 1993, amended by Directive 2007/47/EC).

For safe and proper use of the device, please refer to the Instructions for Use



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CLEARANCES IN VITRO (mL/min)*	POLYFLUX 140 H	POLYFLUX 170 H	POLYFLUX 210 H
HEMODIALYSIS MODE (HD)			
Urea (60 Da) (Q_B-Q_D, mL/min)			
200/500	193		
300/500	262	270	281
400/500	309	321	339
500/500			378
Creatinine (113 Da)			
200/500	181		
300/500	232	243	259
400/500	266	281	303
500/500			334
Phosphate (142 Da)			
200/500	174		
300/500	220	232	249
400/500	250	266	289
500/500			317
Vitamin B12 (1.4 kDa)			
200/500	128		
300/500	149	162	183
400/500	163	178	203
500/500			218
Inulin (6.2 kDa)			
200/500	91		
300/500	102	113	131
400/500	109	121	143
500/500			151
HEMODIAFILTRATION MODE (HDF)			
Urea (60 Da) (Q_B-Q_D, mL/min)			
200/500	198		
300/500	277	283	290
400/500	332	343	359
500/500			406
Creatinine (113 Da)			
200/500	191		
300/500	252	262	274
400/500	292	306	327
500/500			363
Phosphate (142 Da)			
200/500	187		
300/500	242	252	266
400/500	277	292	314
500/500			347
Vitamin B12 (1.4 kDa)			
200/500	152		
300/500	177	189	208
400/500	193	208	232
500/500			249
Inulin (6.2 kDa)			
200/500	120		
300/500	133	143	161
400/500	141	153	174
500/500			183

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