

# Polyflux 2H/6H

DESIGNED FOR: <b>HFHD</b> (High flux)	OTHER APPLICABLE THERAPIES: <b>CONVECTIVE</b> (HDF-HF)	MEMBRANE: <b>POLYAMIX</b> (PAES, PVP, PA, BPA-free)
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The **Polyflux 2H/6H** dialyzer is intended to be used for the treatment of chronic or acute renal failure by hemodialysis, hemodiafiltration and hemofiltration. In consideration of extracorporeal blood volume, blood flow and body weight, the **Polyflux 2H/6H** dialyzer can be used for low weight patients.

## SPECIALIZED FOR LOW BODY WEIGHT PATIENTS

The **Polyflux 2H/6H** dialyzer series enables high flux dialysis compatibility and performance to low body weight patients, typically children.<sup>1,2,3</sup>

## FOCUSED ON LOW BLOOD COMPARTMENT VOLUME

- > The **Polyamix** membrane has been integrated into a more compact housing design, aiming at supporting effective high flux performance for this specific patient population<sup>2,3</sup>
- > Blood compartment volume reduced down to 17 mL and 52 mL respectively for **Polyflux 2H/6H**
- > Small dialyzer compartments also help promote simple and easy priming<sup>2</sup>

## WITH BIOCOMPATIBILITY IN MIND

The **Polyflux 2H/6H** dialyzers are compatible with conventional high-flux hemodialysis, as well as convective therapies (HDF or HF mode).

- > The 3-layer-membrane structure has been designed to optimize the combination of high diffusive and convective transport rates,<sup>4</sup> while acting as a safety barrier to endotoxins<sup>5</sup>
- > Composed of the **Polyamix** membrane, which is BPA-free, the Polyflux H dialyzers may limit the risk of clotting events<sup>1</sup>
- > The **Polyflux 2H/6H** dialyzers are steam sterilized inside-out to promote biocompatibility, avoiding exposure to chemicals such as ethylene oxide and manufacturing residues<sup>6</sup>



# Polyflux 2H/6H Specifications

MATERIALS	POLYFLUX 2H	POLYFLUX 6H
Membrane	<b>Polyamix</b> 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))*	15	30
KoA urea*	146	461
Blood Compartment volume (mL)	17	52
Minimum recommended priming volume (mL)	500	1000
Maximum TMP (mmHg)	600	
Recommended Q <sub>B</sub> (mL/min)	20–200	50–300 (HDF, HF: 50–200)
Storage conditions	< 30°C (or < 86°F)	
Units per box	24	
Gross/net weight (g)	98/75	152/140

## MEMBRANE

Effective Membrane Area (m <sup>2</sup> )	0.2	0.6
Fiber inner diameter (µm)	215	
Fiber wall thickness (µm)	50	

## SIEVING COEFFICIENTS\*

Vitamin B12 (1.4 kDa)	1.0	
Inulin (5.2 kDa)	1.0	0.99
β <sub>2</sub> -Myoglobin (17 kDa)	0.7	0.63
Albumin (66.4 kDa)	< 0.01	

\*According to EN 1283/ISO 8637:

- > UF-Coefficient: measured with bovine blood, Hct 32%, Pct 60 g/L, 37°C
- > KoA for urea: calculated at UF = 0 mL/min, at Q<sub>B</sub> = 60 mL/min and Q<sub>D</sub> = 300 mL/min for P2H, at Q<sub>B</sub> = 200 mL/min and Q<sub>D</sub> = 500 mL/min for P6H
- > Sieving coefficients: measured with human plasma, Q<sub>B</sub> = 300 mL/min, UF = 60 mL/min
- > Clearances In-Vitro: measured at UF = 0 mL/min, ± 10%
- HDF/HF mode: measured at UF = 20 mL/min (2H) or UF = 30 mL/min (6H), ± 10%

CLEARANCES IN VITRO (mL/min)*	2H	6H	2H	6H
	HEMODIALYSIS MODE (HD)		HEMODIAFILTRATION MODE (HDF/HF)	
<b>Urea (60 Da)</b> (Q <sub>B</sub> -Q <sub>D</sub> , mL/min)				
20/30	16			
60/30	24			
100/30	26			
60/300	53			
100/300	72		79	
50/500			50	
100/500	76		97	
150/500			136	
200/500			167	
200/500			174	

## Phosphate (95 Da)

20/30	14			
60/30	22			
100/30	24			
60/300	44			
100/300	55		64	
50/500			49	
100/500	59		89	
150/500			116	
200/500			136	
200/500			147	

## Creatinine (113 Da)

20/30	15			
60/30	23			
100/30	25			
60/300	48			
100/300	62		70	
50/500			50	
100/500	65		97	
150/500			124	
200/500			146	
200/500			156	

## Vitamin B12 (1.4 kDa)

20/30	10			
60/30	15			
100/30	18			
60/300	27			
100/300	32		43	
50/500			45	
100/500	35		68	
150/500			81	
200/500			90	
200/500			104	

## Inulin (5.2 kDa)

20/30	7			
60/30	10			
100/30	11			
60/300	19			
100/300	21		33	
100/500	23			
150/500			65	
200/500			74	
200/500			79	

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