

Polyflux™ H

For superior high-flux performance

Unique membrane

Effective and selective removal of middle molecules

- By using Polyflux H dialyzers you ensure effective removal of a wide range of middle molecules while protecting from unwanted loss of albumin. This is due to the high selectivity of its unique Polyamix™ membrane, made from a polymer blend of polyarylethersulfone, polyvinylpyrrolidone and polyamide. The membrane's asymmetric 3-layer surface structure provides excellent diffusive properties as well as the right sieving properties for both high-flux dialysis and convective HDF and HF treatments.

Biocompatibility

- By using Polyflux H dialyzers you minimize the inflammatory effects of the dialysis treatment, and you reduce the risk of membrane-induced clotting events. This is a result of a breakthrough membrane surface configuration known as microdomains.

Endotoxin rejection

- The properties provided by the unique Polyamix membrane's hydrophobic polymers ensure high binding capacity for endotoxins and other cytokine-inducing substances of bacterial origin.

Enhanced design

Advanced fiber distribution and geometry

- Effective dialysis fluid utilization results from well-defined fiber undulations
- Low blood side pressure drops make convective treatments easy to perform, and results from the fibers' optimized inner diameter

Optimized header

- Risk of clotting is reduced as blood effectively distributes to all fibers

Convenient and easy to use

- Small priming solution volume is needed for effective deaeration, as the dialyzer is steam sterilized
- Effective rinse back of blood is facilitated by the effective design of headers and fibres



Performances in vitro

Measured according to
EN 1283

Polyflux™ H

For high-flux and convective dialysis treatment

Clearances in vitro

(ml/min) +/-10%:

Hemodialysis

UF=0 ml/min, Q_D=500 ml/min

Q_B (ml/min)

	Polyflux 140H				Polyflux 170H				Polyflux 210H			
	200	300	400	500	200	300	400	500	200	300	400	500
Urea	193	262	309	-	196	270	321	-	-	281	339	378
Creatinine	181	232	266	-	186	243	281	-	-	259	303	334
Phosphate	174	220	250	-	180	232	266	-	-	249	289	317
Vitamin B ₁₂	128	149	163	-	137	162	178	-	-	183	203	218
Inulin	91	102	109	-	100	113	121	-	-	131	143	151

Hemodiafiltration

UF=60 ml/min, Q_D=500 ml/min

Q_B (ml/min)

	200	300	400	500	200	300	400	500	200	300	400	500
Urea	198	277	332	-	199	283	343	-	-	290	359	406
Creatinine	191	252	292	-	194	262	306	-	-	274	327	363
Phosphate	187	242	277	-	191	252	292	-	-	266	314	347
Vitamin B ₁₂	152	177	193	-	159	189	208	-	-	208	232	249
Inulin	120	133	141	-	128	143	153	-	-	161	174	183

KoA for Urea

	993	1145	1450
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Ultrafiltration*

(ml/min) +/- 10%, measured at

Q_B=300 ml/min and TMP=300 mmHg

UF-coefficient*

(ml/h. mmHg) +/-20%

Priming volume (ml)

	94	115	125
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Fluid volume for priming (ml)

Residual blood volume (ml)

Maximum TMP (mmHg)

	> 500	> 500	> 500
	< 1	< 1	< 1
	600	600	600

Recommended Q_B (ml/min)

	200-400	250-500	300-500
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Sieving coefficients**

Vitamin B ₁₂	1.0	1.0	1.0
Inulin	1.0	1.0	1.0
β ₂ -Microglobulin	0.70	0.70	0.70
Albumin	<0.01	<0.01	<0.01

Specifications

Membrane

Effective surface area (m ²)	1.4	1.7	2.1
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Fiber dimensions

Wall thickness (μm)	50	50	50
Inner diameter (μm)	215	215	215

Components	Materials	Sterilizing agent	Sterile barrier	Quantity per case
Membrane	Polyamix™ ***	Steam	Medical grade paper	24
Potting material	Polyurethane (PUR)			
Housing, caps	Polycarbonate (PC)			
Protective plugs	Polypropylene (PP)			
O-ring	Silicon rubber (SIR)			

* Measured with bovine blood, Hematocrit=32%, Protein 60 g/l, at 37°C.

** Typical values measured with Polyflux 170H, with bovine plasma, protein 60 g/l, at 37°C.

*** Polyarylethersulfone, Polyvinylpyrrolidone, Polyamide blend.

These specifications are subject to change without notice.

For further information and operating instructions please refer to the operator manual.

Gambro Lundia AB

PO Box 10101, SE-22010 Lund, Sweden

Phone + 46 46 16 90 00

partner@gambro.com, www.gambro.com

