

140H

170H

210H

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

- By effectively combining the advantages of both hydrophobic and hydrophilic surface properties, the microdomains of the Polyamix membrane improve biocompatibility by reducing the specific interactions with proteins and cells.

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)

Fluid volume for priming (ml)

Residual blood volume (ml)

Maximum TMP (mmHg)

Recommended Q_B (ml/min)

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.

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