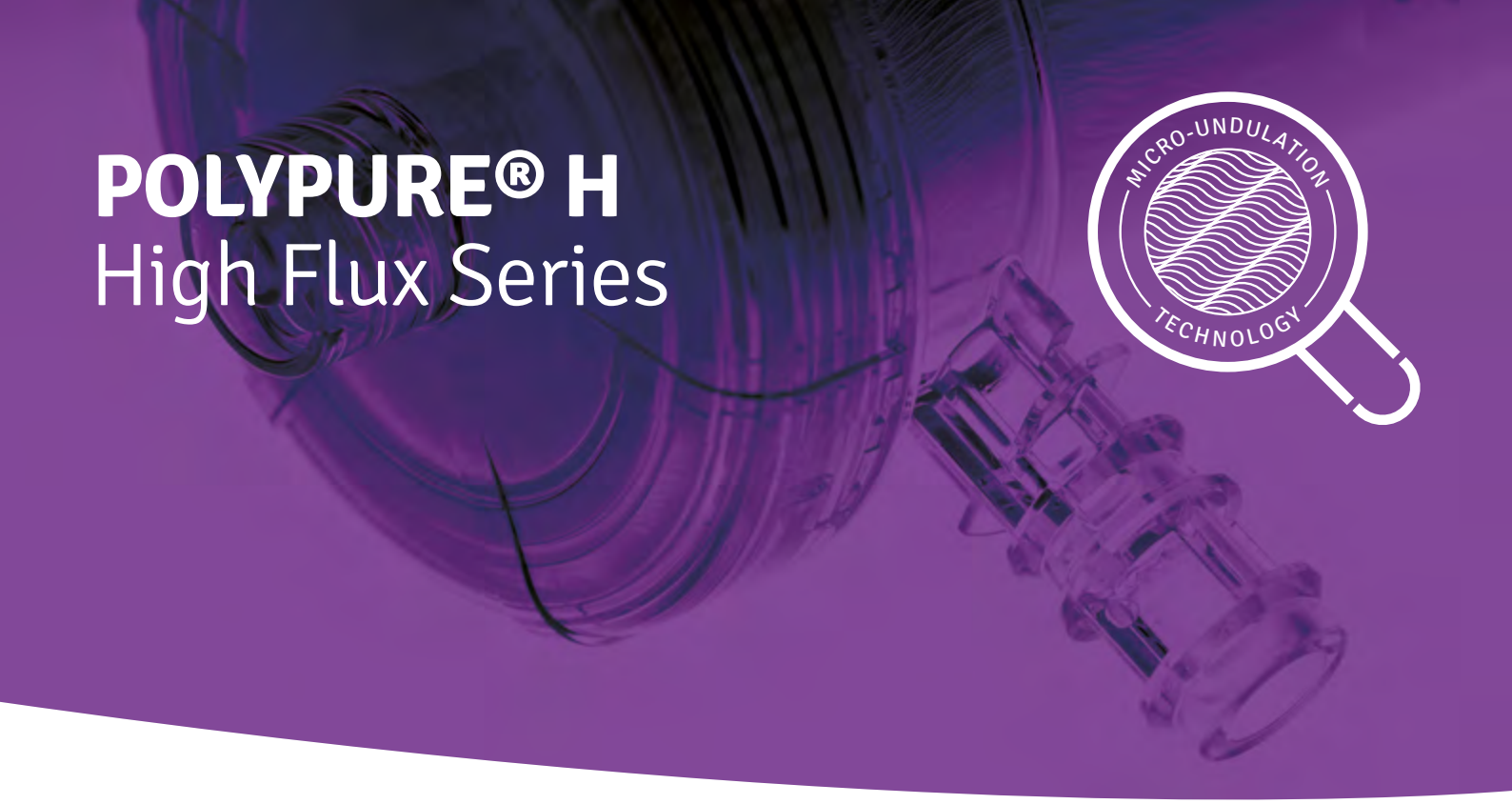
POLYPURE® H
High Flux Series



POLYPURE® H–Allmed's high flux dialyser, using our micro-undulated polysulfone membrane. Manufactured and developed by Allmed in our world class fibre production facility in northern Germany.

POLYPURE® H is the ideal dialyser to perform Haemodiafiltration (HDF) or High Flux Dialysis (HFD) therapies, offering optimal clearances for middle molecules, but with the added benefit of albumin retention.

Micro-undulated technology: highest efficacy

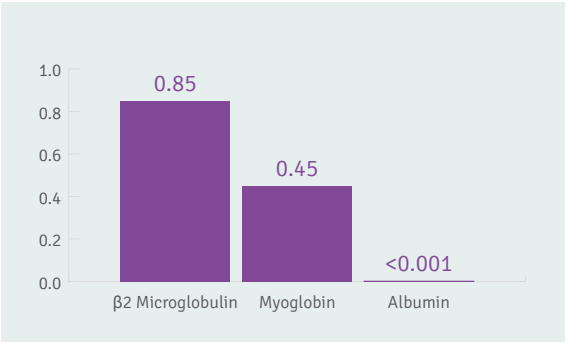
Micro-undulation technology ensures the highest efficiency and clearances thanks to "bundles" and "dead-zones" prevention together with the optimally increased surface exchange of blood-membrane-dialysate.

Optimal middle molecule removal and albumin retention: Safeguarding patient nutritional status

Our optimal membrane structure perfects the delicate balance between substantial middle molecule removal and loss of albumin.

POLYPURE® H is characterised by excellent S & C for ß2 microglobulin (0.85) and for myoglobin (0.45), while albumin loss is practically negligible (SC < 0.001).

POLYPURE® H is the best choice for effective HDF or HFD treatments.

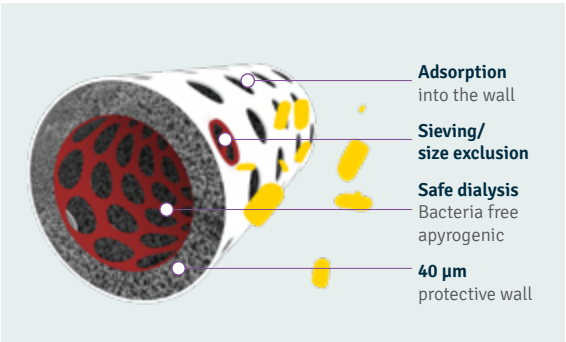


SIEVING COEFFICIENT

Protection from endotoxins: reduced inflammation

POLYPURE® asymmetrical membrane with an optimised micro-undulated fibre structure and a 40µm thickness prevents endotoxin transfer thanks to its geometrical and adsorption capacity capability.

Systemic inflammation is well recognised to be associated with an increased cardiovascular disease risk in patients with chronic renal disease. Exposure to endotoxins results in a release of a wide variety of pro-inflammatory cytokines, with subsequent chronic systemic inflammation and a broad range of negative cardiovascular effects. Chronic inflammation can also modify the process of erythropoiesis and probably induces resistance to erythropoietin.



PROTECTION FROM PYROGENS

Allmed

	POLYPURE® H	10 H	13 H	14 H	16 H	18 H	20 H	22 H
Q_B= 200 ml/min	Urea	184	192	193	195	196	198	199
	Creatinine	173	184	185	191	193	195	196
	Phosphate	160	174	177	183	187	190	192
	Vitamin B_{12}	111	129	135	142	149	156	161
	Inulin	80	95	99	108	116	123	129
Q_B= 300 ml/min	Urea	238	256	261	270	275	279	282
	Creatinine	215	237	239	252	260	266	271
	Phosphate	193	216	223	233	242	251	257
	Vitamin B_{12}	125	147	156	165	176	186	194
	Inulin	86	104	109	120	131	139	147
Q_B= 400 ml/min	Urea	270	300	303	315	326	334	341
	Creatinine	240	269	272	290	301	311	319
	Phosphate	213	242	250	265	277	288	297
	Vitamin B_{12}	132	157	168	179	192	204	214
	Inulin	89	109	115	128	139	150	159
Clearance in vitro (ml/min) QD = 500 ml/min QF = 0 ml/min T = 37°C Max TMP = 500mmHg	Surface area (m^2)	1.0	1.3	1.4	1.6	1.8	2.0	2.2
	UF coefficient (ml/hr*mmHg)	33	44	47	55	59	68	76
	Blood priming Volume (ml)	59	69	75	86	105	109	115
		▼	▼	▼	▼	▼	▼	▼
Sieving coefficient	Vitamin B_{12}				1.0			
	Inulin				1.0			
	ß2 microglobulin				0.85			
	Albumin				< 0.001			

- Performance data was measured in vitro according to standard ISO 8637
- UF measurement: using bovine/human blood (Hct 32%;protein 60g/l)
- Typical values obtained with an individual batch of fibres, clinical use may illustrate a difference in results in relation to different Ultrafiltration/measuring techniques and possible variation between batches of fibres

Internal diameter
200 µm

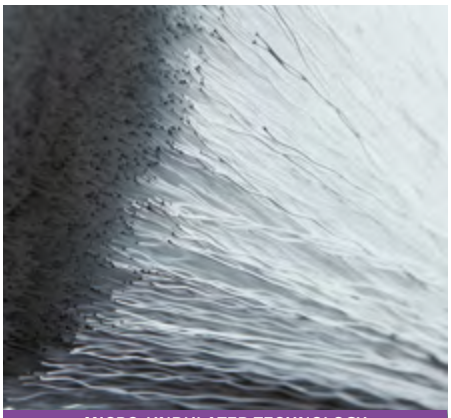
Wall thickness
40 µm

Membrane material
Micro-undulated polysulfone

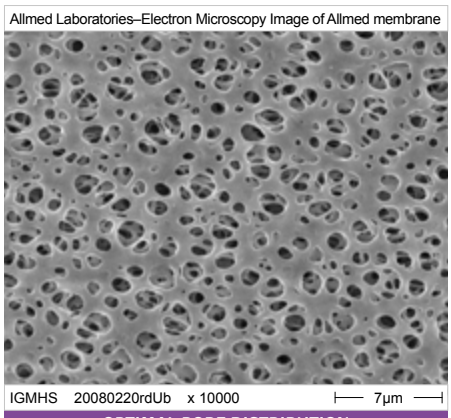
Housing material
Polycarbonate

Potting material
Polyurethane

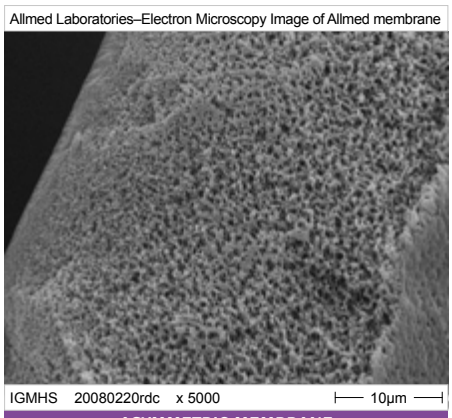
Sterilisation
Irradiation



MICRO-UNDULATED TECHNOLOGY



OPTIMAL PORE DISTRIBUTION



ASYMMETRIC MEMBRANE

CE
0086

Manufactured by:

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Further information is available to download at allmedgroup.com

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