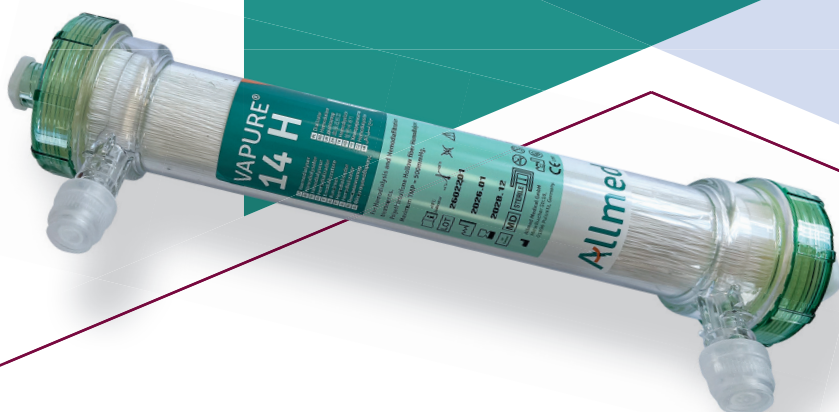


VAPURE® HF

High Flux Series





VAPURE® HF - High Flux Series

The Polyethersulfone (PES) membrane of the Hollow Fiber Haemodialyser is engineered with a unique microstructure that optimises its filtration capabilities. This structure is characterised by an interconnected network of micropores, which are specifically designed to allow the selective removal of waste products and toxins from the blood while maintaining the integrity of essential blood components.

Optimal Clearance Performance

The waved fiber design maximises contact between the dialysate and blood, improving the efficiency of toxin removal. This results in better patient outcomes and increased overall effectiveness of the dialysis process.

Improved Device Performance

The micro-undulated structure provides superior flow dynamics, reducing pressure drops and enhancing the stability of the dialysis treatment.

- Patients experience more consistent and reliable dialysis sessions.
- Superior Clearance of Uremic Toxins: Effective removal of middle molecules and small solutes.
- Improved Haemodynamic Stability: Minimises intradialytic hypotension.
- Reduced Inflammatory Markers: Supports lower cytokine production and inflammation.
- Enhanced Patient Comfort: Smooth treatment experience with reduced risk of febrile reactions.

Autoclaved steam sterilisation

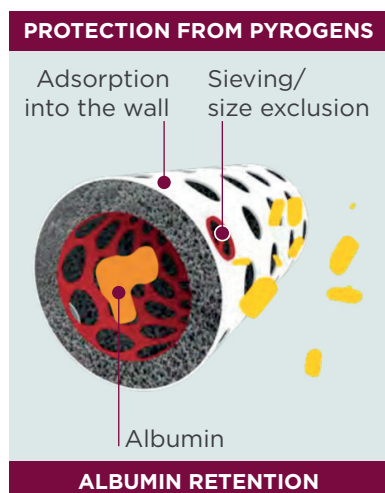
- Provides maximum sterility assurance without residual chemicals, maintaining membrane integrity.
- No potentially dangerous substances are generated during autoclaved steam sterilisation.
- Lower priming requirements compared to other sterilisation methods for the same product.
- Optimised rheology during clinical use.
- Less impact on the environment compared with irradiation and ethylene oxide.
- Autoclave steam sterilisation is the only steam sterilisation method recognised by The International Pharmacopoeia (Methods of Sterilisation).

VAPURE® HF		10H	13H	14H	16H	18H	20H	22H
Q_B = 200 ml/min	Urea	184	190	191	193	194	196	197
	Creatinine	170	181	183	184	190	191	192
	Phosphate	163	175	178	182	185	187	189
	Vitamin B12	121	136	140	146	152	160	161
	Inulin	81	95	98	100	104	112	115
Q_B = 300 ml/min	Urea	242	259	262	269	274	276	283
	Creatinine	213	240	241	248	256	260	265
	Phosphate	196	225	230	236	244	255	260
	Vitamin B12	139	158	163	171	183	195	202
	Inulin	89	108	110	113	118	127	135
Q_B = 400ml/min	Urea	273	302	305	310	319	334	338
	Creatinine	236	266	273	280	300	301	314
	Phosphate	218	253	259	273	280	290	301
	Vitamin B12	147	170	175	187	200	210	214
	Inulin	96	116	117	119	126	136	145
Q_B = 500 =ml/min	Urea	333	367	370	380	391	408	426
	Creatinine	276	319	325	340	354	370	388
	Phosphate	259	298	307	324	340	356	371
	Vitamin B12	159	188	197	213	230	245	164
	Inulin	101	123	125	128	141	151	162
Clearance in vitro (ml/min)								
QD = 500 ml/min	Blood Priming Volume (ml)	60	74	78	90	110	117	130
QF = 0 ml/min	Surface Area (m2)	1.0	1.3	1.4	1.6	1.8	2.0	2.2
T = 37°C	KUF ml/hr/mmHg	35	55	58	63	75	79	86
Max TMP = 500mmHg		▼	▼	▼	▼	▼	▼	▼
Sieving coefficient		Max			Min			
	Albumin	0.0035			0.0022			
	Inulin	1.03			0.97			
	B2 microglobulin	≥0.7						
	Myoglobin	≥0.55						

*Performance data were measured in vitro according to standards BS EN ISO 8637-1.

*Typical values obtained with an individual batch of fiber; the clinical use may determine difference in results in relation to different Ultrafiltration and measuring technique and possible variation between batches of fibers. Operation of the dialyser under clinical conditions may produce values different from those illustrated because of variables involved in the clinical dialysis procedure, in the membrane, and in the manufacture of the device. Therefore, the values given are for approximation only.

Available to order via NHS Supply Chain



Internal diameter 200 µm	Wall thickness 40 µm	Membrane material Polyethersulfone
Housing material Polycarbonate	Potting material Polyurethane	Sterilisation Steam

DISCLAIMER: This document was produced May 2026 to provide a general outline only. Information, illustrations, images or figures (together “materials”) contained in this document (which does not purport to be comprehensive) are illustrative and/or indicative only and are subject to change.

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