VAPURE® HF
High Flux Series

STEAM STERILE

The Polyethersulfone (PES) membrane of the Hollow Fiber Hemodialyzer is engineered with a unique microstructure that optimizes its filtration capabilities. This structure is characterized 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

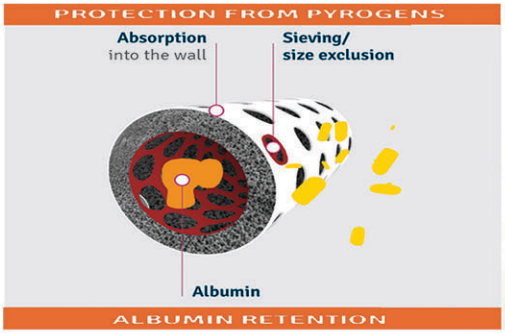
The waved fiber design maximizes contact between the dialysate and blood, improving the efficiency of toxin removal.
This results in better patient outcomes and increased overall effectiveness of the dialysis process.

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 Hemodynamic Stability: Minimizes 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 sterilization

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





	VAPURE® HF	10 H	13 H	14 H	16 H	18 H	20 H	22 H
QB 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
QB 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
QB 400 =ml/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	224
	Inulin	96	116	117	119	126	136	145
QB 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	264
	Inulin	101	123	125	128	141	151	162
Clearance in vitro (ml/min)	Blood Priming Volume (ml)	60	74	78	90	110	117	130
QD = 500ml/min	Surface Area (m2)	1.0	1.3	1.4	1.6	1.8	2.0	2.2
QF = 0ml/min	KUF ml/hr/mmHg	35	55	58	63	75	79	86
T = 37 0C								
Max TMP = 500mmHg								

Sieving Coefficient	
Albumin	0.0022
Inulin	1.0
B2 Microglobulin	0.8
Myoglobin	≥ 0.55

- Performance data were measured in vitro according to standard 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 dialyzer under clinical conditions may procedure values different from those illustrated because of the 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.

Internal Diameter (µm)
200 µm

Wall Thickness (µm)
40 µm

Membrane Material
Polyethersulfone

Housing Material
Polycarbonate

Potting Material
Polyurethane

Sterilization
Steam

CE

2797

Manufactured by:

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Further information is available to download at allmedgroup.com