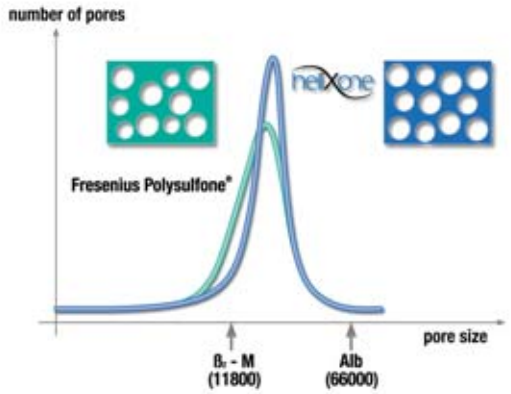
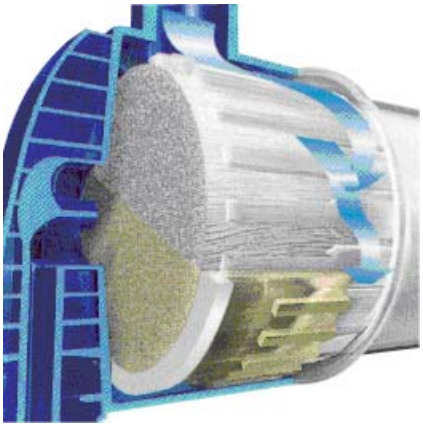
High Flux Class FX

FRESENIUS MEDICAL CARE

New membrane - Helixone
It is made based on Nanotechnology, which allows for the structure and distribution of exceptionally defined pores. In addition, the three-dimensional micro-wave of the Helixone and its optimised geometry contribute to the significant improvement in the diffusive and convective clearance.



New design and haemodynamic
The structure of the pins built in the involucre of the polypropylene ensures the radial and uniform flux of the dialyser.
The lateral blood entrance defines a homogeneous flow of blood avoiding stagnation areas. It eliminates the risk of hemolysis that arises from possible accidental folds in the blood lines.



Greater environmental preservation
The materials used in production of the Class FX dialysers are only composed of hydrogen and carbon. In addition to being less dense, which significantly reduces their weight, its incineration does not release harmful substances into the environment.

Technical Characteristics

		FX40	FX50	FX60	FX80	FX100
Ultra filtration coefficient (ml/h x mmHg)		20	33	46	59	73
Clearance: QB 200 ml/min						
	Urea	170	189	193	197	198
	Creatinine	144	170	182	189	194
	Phosphate	138	165	177	185	189
	Vitamin B12	84	115	135	148	161
	Insulin	54	76	95	112	125
Clearance: QB 300 ml/min						
	Urea	209	250	261	276	278
	Creatinine	168	210	230	250	261
	Phosphate	160	201	220	239	248
	Vitamin B12	91	130	155	175	192
	Insulin	56	81	104	125	142
Clearance: QB 400 ml/min						
	Urea	233	286	303	326	331
	Creatinine	182	233	262	287	304
	Phosphate	173	222	248	272	284
	Vitamin B12	94	137	167	190	213
	Insulin	57	84	109	133	152

The in vitro performances were obtained with QD = 500 ml/min, QF = 0 ml/min; Temperature = 37°C (EN1283)
The ultra-filtration coefficients were measured with human blood, Hct = 32%, protein content 6%.

Sieving Coefficient , Qb = 300 ml/min, Qf=60 ml/min

Insulin	1
ß - Microglobulin	0,8
Albumin	0,001

Surface (m2)	0,6	1,0	1,4	1,8	2,2
Wall thickness/internal diameter (µm)	35/185	35/185	35/185	35/185	35/185
Priming volume (ml)	32	53	74	95	116

Membrane	helixone
Involucre material	Polypropylene
Fixation substance	Polyurethane
Sterilisation method	INLINE Vapour
Application	HD/HDF/HF