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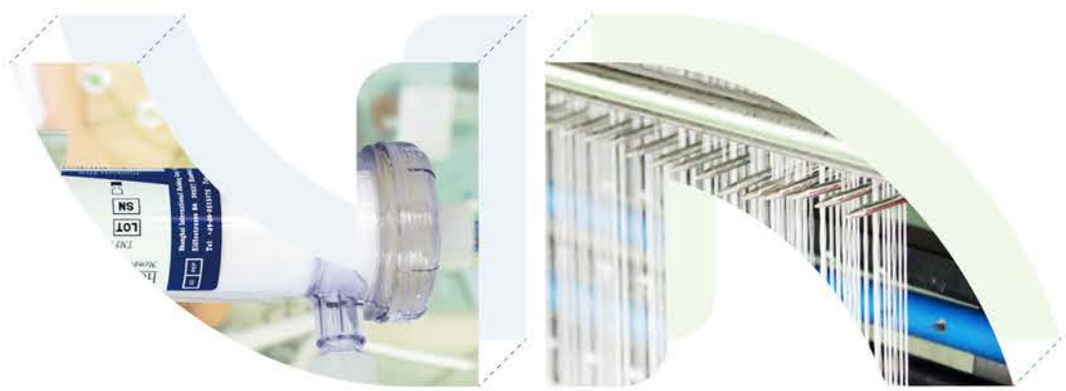
君康医疗 JUNKANG MEDICAL

FOCUS ON
HEMODIALYSIS TECHNOLOGY



Membrane Technical Advantage

Three layer asymmetrical sponge structure
Higher clearance, less residues.

Diameter of the 200 μm & wall thickness of the 40 μm
Improve blood flow to avoid coagulation, maximize the use of membrane wall.

Microwave wave design
Larger overlapping area and angle, higher clearance efficiency.

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TÜV SÜD CE 0123

High Flux Hemodialyzer

Model & Specification		HiF10	HiF12	HiF14	HiF16	HiF18	HiF20
Membrane Material		Medical-grade polyether sulfone (PES)					
Housing & Blood caps Material		Medical-grade Polycarbonate (PC)					
Potting sealants Material		Bi-component polyurethane sealants (PU)					
Inner diameter of membrane (μm)		200					
Wall thickness of membrane (μm)		40					
Max. operation pressure (kPa/mmHg)		66.5/500					
Max. flow rate (mL/min)		Max. Q_B=500mL/min, Max. Q_D=500～800mL/min					
Effective membrane area (m^2)		1.0	1.2	1.4	1.6	1.8	2.0
UFR (mL/h*mmHg)		40	45	50	55	60	65
Blood compartment Volume (mL)		70	78	85	98	110	125
Clearance rate	Test condition	Q_B=200mL/min					
	Urea	189	192	194	196	197	198
	Creatinine	181	185	188	191	194	196
	Phosphate	176	180	184	188	192	195
	Vitamin B_{12}	105	124	137	150	162	175
	Inulin	65	78	94	107	120	130
	Test condition	Q_B=300mL/min					
	Urea	248	255	262	270	276	280
	Creatinine	225	235	243	250	256	262
	Phosphate	224	230	236	242	248	254
	Vitamin B_{12}	128	142	156	170	183	196
	Inulin	90	98	110	120	128	134
	Test condition	Q_B=400mL/min					
	Urea	-	297	306	315	324	330
	Creatinine	-	274	282	290	297	304
	Phosphate	-	260	270	280	290	298
	Vitamin B_{12}	-	154	170	185	198	212
	Inulin	-	110	118	128	136	142
Sieving coefficient	Test condition	Q_B=300mL/min, Q_F=65mL/min					
	Albumin(%)	≤1					
	Inulin(%)	90±10					
	Myoglobin(%)	55±10					
	β_2-microglobulin(%)	70±10					
Sterilization		γ - rays					

Note: Vitro performance parameter condition for UFR: Q_B =200 mL/min, TMP=100 mmHg, T=37℃, test by anticoagulation bovine plasma, total protein content 60±5 g/L.
Vitro performance parameter condition for clearance rate: Q_B =500 mL/min, Q_D =10 mL/min, T=37℃, test by simulated body fluid (EN 1283).BDF

Hollow Fiber Hemodialyzer

Model & Specification		LoF10	LoF12	LoF14	LoF16	LoF18	LoF20
Membrane Material		Medical-grade polyether sulfone (PES)					
Housing & Blood caps Material		Medical-grade Polycarbonate (PC)					
Potting sealants Material		Bi-component polyurethane sealants (PU)					
Inner diameter of membrane (μm)		200					
Wall thickness of membrane (μm)		40					
Max. operation pressure (kPa/mmHg)		66.5/500					
Max. flow rate (mL/min)		Max. Q_B=500mL/min, Max. Q_D=500mL/min					
Effective membrane area (m^2)		1.0	1.2	1.4	1.6	1.8	2.0
UFR (mL/h*mmHg)		15	18	22	25	28	30
Blood compartment Volume (mL)		70	78	85	98	110	125
Clearance rate	Test condition	Q_B=200mL/min					
	Urea	186	188	190	192	194	196
	Creatinine	175	178	181	184	187	190
	Phosphate	165	170	175	180	185	189
	Vitamin B_{12}	88	100	110	118	126	133
	Test condition	Q_B=300mL/min					
	Urea	238	245	252	260	267	275
	Creatinine	206	220	233	245	257	270
	Phosphate	192	203	214	225	235	245
	Vitamin B_{12}	92	104	120	136	150	165
	Test condition	Q_B=400mL/min					
	Urea	-	268	279	290	300	312
	Creatinine	-	248	261	275	288	300
	Phosphate	-	230	244	257	270	283
	Vitamin B_{12}	-	110	125	142	158	173
Sterilization		γ - rays					

Note: Vitro performance parameter condition for UFR: Q_B =200 mL/min, TMP=100 mmHg, T=37℃, test by anticoagulation bovine plasma, total protein content 60±5 g/L.
Vitro performance parameter condition for clearance rate: Q_B =500 mL/min, Q_D =10 mL/min, T=37℃, test by simulated body fluid (EN 1283).BDF