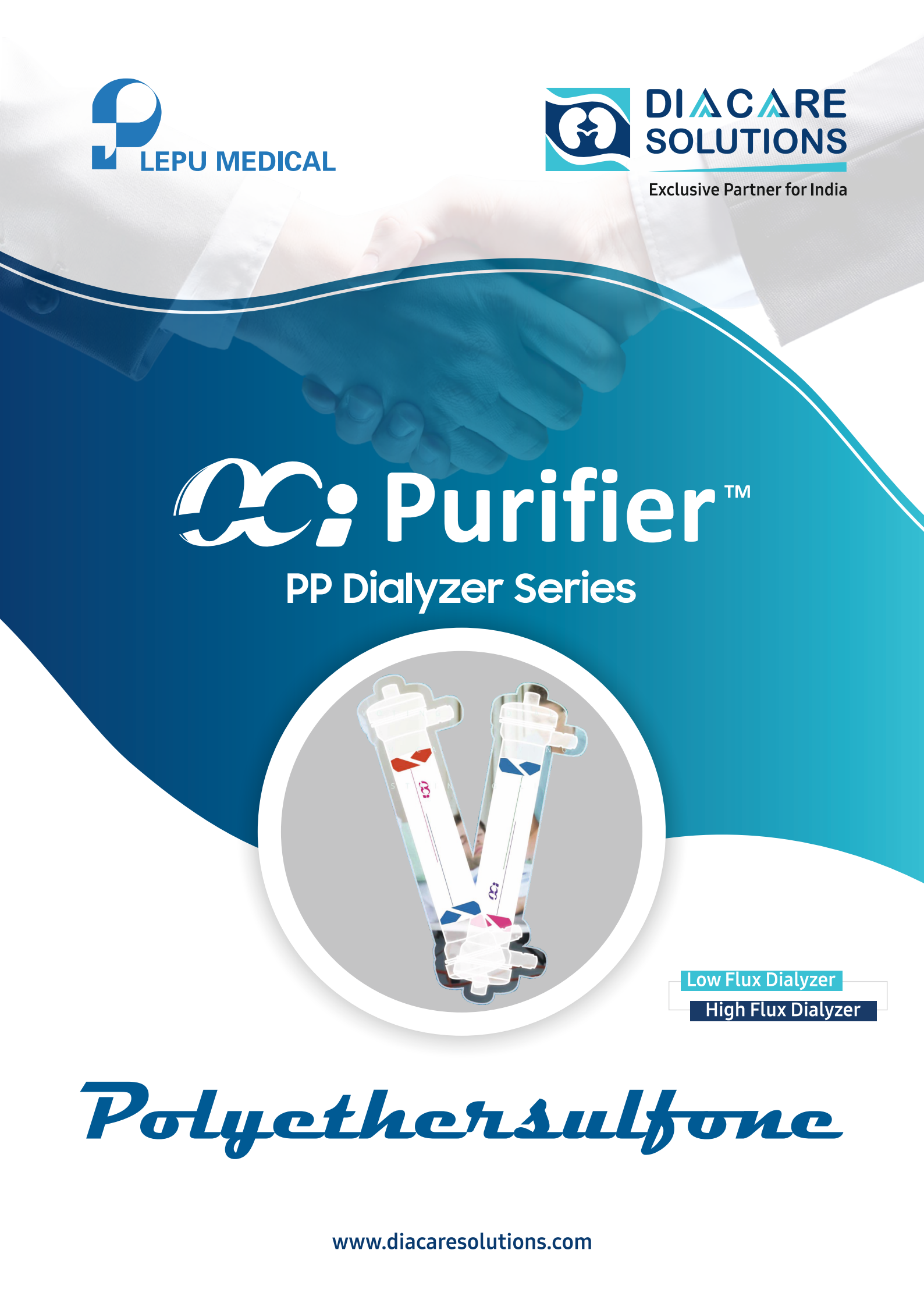




Purifier™

PP Dialyzer Series



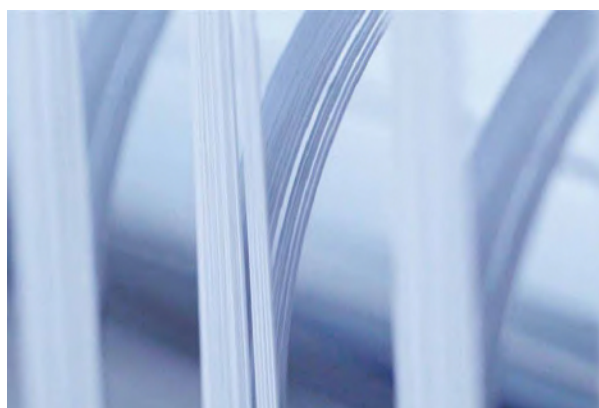
Low Flux Dialyzer

High Flux Dialyzer

Polyethersulfone

HEPL[®]

HepL[®] Polyethersulfone Hollow Fiber Membrane



Enhanced Hydrophilicity



Customized Production Service



Decreased Protein Adsorption

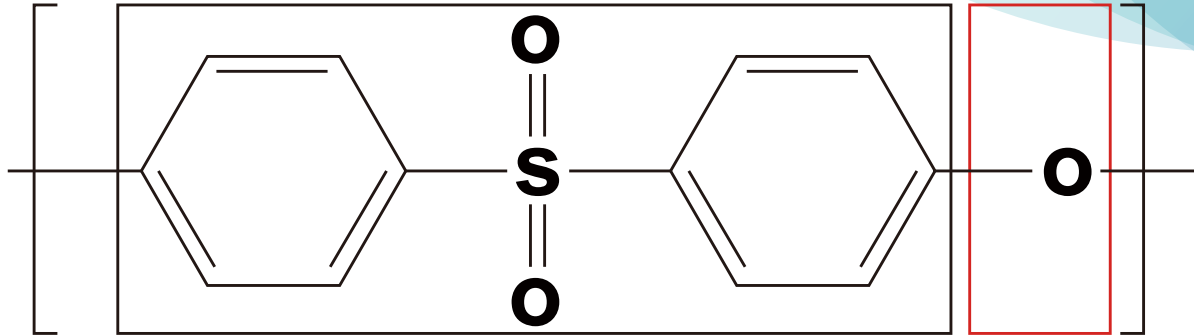


Anti-coagulant

MEMBRANE MATERIAL

★ Membrane material: PES

Better Choice



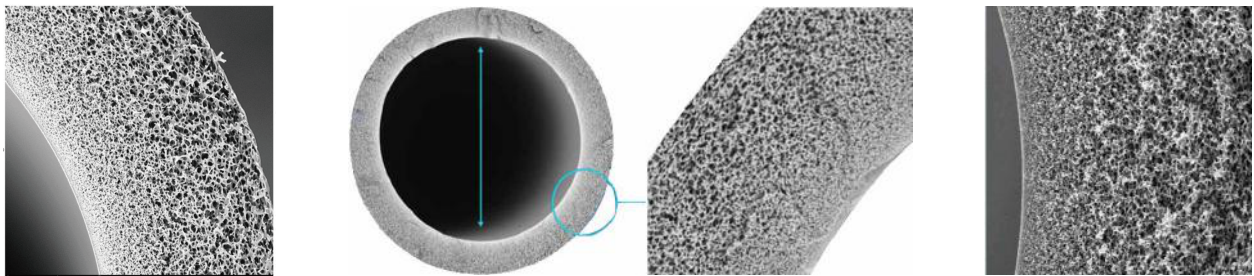
● BPA Free

||| Uniform pore distribution

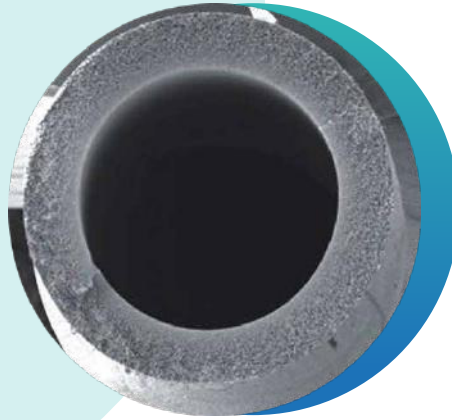
📈 Stable mechanical properties

✓ Excellent biocompatibility

CROSS SECTION OF THE HEPL® MEMBRANE



- Smooth endothelium improves the blood compatibility and biocompatibility of the product;
- Extremely thin endothelium ensures high clearance efficiency;
- Uniform pore size enhances the clearance rate of the medium molecular substances while retaining-endotoxin.



- Specific inner diameter ensures the product's good clearance effect and reduces the probability of coagulation;
- The special design of spongy structure guarantees the maximum pressure of the membrane;
- Specific membrane thickness enabled the product with high ultrafiltration performance and clearance rate, while avoiding the reverse entry of endotoxin from dialysate into human body.



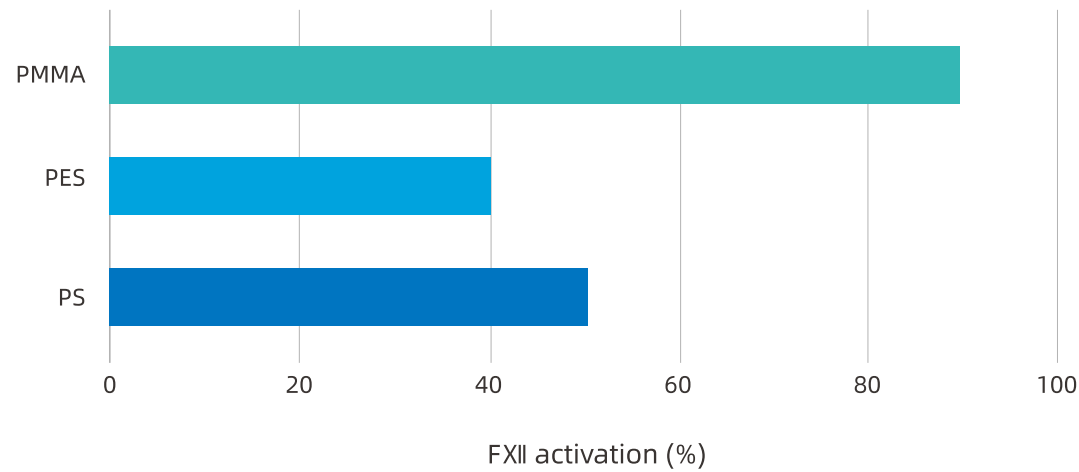
Each optimizing index is the commitment to duty, we contribute our effort and knowledge to the critical equipment, with strict standard in every manufacturing process. From raw material to clinical use, we concern every details, improve performance from the beginning, and do our best to make the right choice for each life and every moment.

GOOD BIOCOMPATIBILITY

In vitro and in vivo experiments show that the polyethersulfone hemodialyzer of OCI has a low probability of coagulation factor activation (FXII activation), and has good biocompatibility.

Reference

The Contact Activation of Factor XII During Plasma Incubation with Blood Purification Materials.
"Journal of Sichuan University (Engineering Science Edition)", 2005.

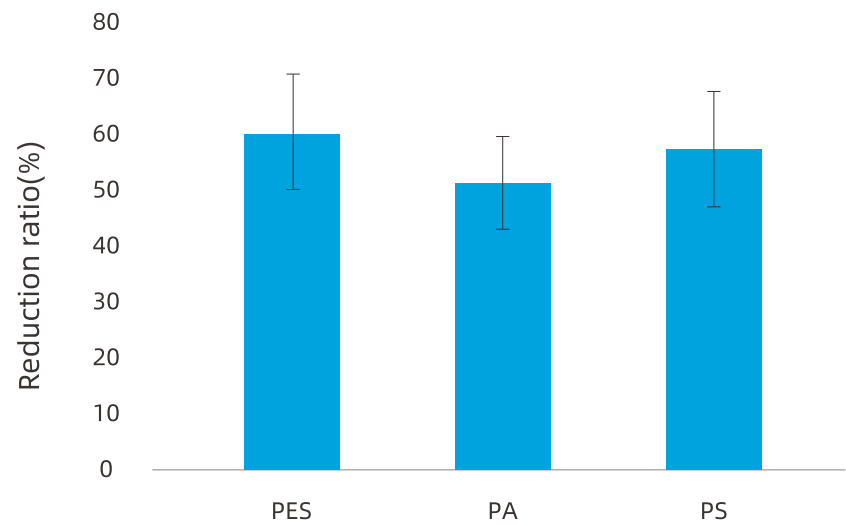


HIGHER CLEARANCE OF β_2 -MG

Effectively clear β_2 -microglobulin, delay dialysis-associated amyloidosis, reduce cardiovascular complications.

Reference

Clinical Evaluation of Polyethersulfone High-flux Hemodialysis Membrane Compared to Other Membranes.
"Journal of Applied Polymer Science", 2012.

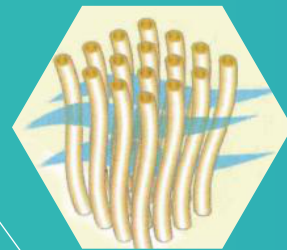


Polyethersulfone Hollow Fiber Hemodialyzer

Optimize the structure and process design to improve
the dynamic performance and safety of dialysis

3D microwave structure

Ensure uniform radial dialysate flow
around each fibre within the bundle

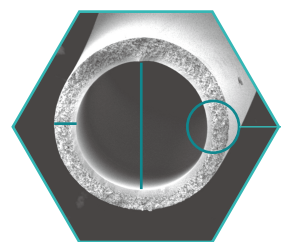


Ultrasonic bonding

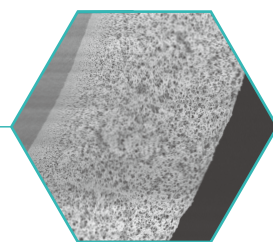
Ultrasonic bonding of the cap,
avoid blood and dialysate leakage

Smooth inlet port

Smooth dialysate inlet port, friendly
for connector of dialysis machine



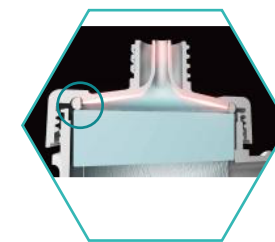
Designed fibre thickness & diameter



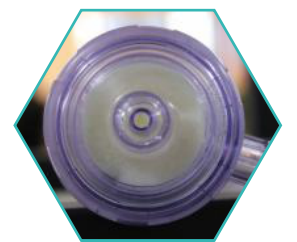
Smooth inner surface



Specific pore diameter



D-shape ring



Transparent cap

DIALYZER

PP series High Flux

Polyethersulfone Hemodialyzer

NMPA CE



FEATURES:

- Lightweight polypropylene(PP) housing, easy to operate
- Totally BPA free, safe and environmentally friendly
- Wide range of the surface area available
- Optimized structure and technological design to improve product safety and clearance rate

TECHNICAL SPECIFICATIONS

Model		OCI-HD13M	OCI-HD15M	OCI-HD16M	OCI-HD17M	OCI-HD18M	OCI-HD19M	OCI-HD20M	OCI-HD21M	OCI-HD23M	OCI-HD25M
Ultrafiltration coefficient (mL/h·mmHg)		39	48	57	60	63	64	67	69	73	77
Surface Area (m²) (mL)		1.3	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.3	2.5
Chamber volume		84	90	95	101	106	112	120	126	136	146
Maximum TMP (kPa/mmHg)		66.5/500									
Screening coefficient	β ₂ -microglobulin	0.85									
	Inulin	1									
	Myoglobin	0.4									
	Albumin	≤0.01									
Membrane material		HepL® Polyethersulfone (PES)									
Housing material		Polypropylene (PP)									
Potting compound		Polyurethane (PU)									
Valid period		Irradiation sterilization, Valid for three years									

CLEARANCES (ML/MIN)

Test conditions: Q_D = 500 ml/min, In vitro simulation experiment.

Q _B	OCI-HD13M	OCI-HD15M	OCI-HD16M	OCI-HD17M	OCI-HD18M	OCI-HD19M	OCI-HD20M	OCI-HD21M	OCI-HD23M	OCI-HD25M
Urea / (ml/min)										
200	180	184	186	188	190	192	195	196	200	200
300	259	264	267	270	274	277	280	283	289	295
400	292	305	312	318	325	332	340	348	358	364
Creatinine / (ml/min)										
200	164	168	170	173	175	178	180	182	186	190
300	239	243	245	248	250	252	255	258	264	270
400	259	265	268	271	274	277	280	283	289	295
Phosphate / (ml/min)										
200	164	172	176	179	182	185	188	191	197	203
300	244	248	250	253	256	259	262	265	271	277
400	284	290	293	296	298	300	304	308	316	324
Vitamin B12 / (ml/min)										
200	129	135	138	140	142	144	147	150	156	162
300	159	165	168	171	173	175	178	181	187	193
400	168	176	180	185	188	192	196	200	208	216
β2-MG / (ml/min)										
200	52	60	64	67	70	73	76	78	82	86

DIALYZER

PP series Low Flux

Polyethersulfone Hemodialyzer

NMPA CE



FEATURES

- PP series is lighter and easier for medical staff to handle.
- Totally BPA free and ensure patient safety
- Wide range of the surface area meet different patients' needs
- Optimized structure and technological design, improve product safety and clearance rate

TECHNICAL SPECIFICATIONS

Model	OCI-HD 110L	OCI-HD 130L	OCI-HD 140L	OCI-HD 150L	OCI-HD 160L	OCI-HD 170L	OCI-HD 180L	OCI-HD 190L	OCI-HD 200L	OCI-HD 210L	OCI-HD 230L
Ultrafiltration Coefficient (mL/h·mmHg)	10	12	13	13	14	16	17	21	24	25	28
Surface Area (m²)	1.1	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.3
Chamber Volume (mL)	72	80	85	90	95	101	106	112	118	123	145
Membrane Material	HepL® Polyethersulfone (PES)										
Housing Material	Polypropylene (PP)										
Potting Compound	Polyurethane (PU)										
Maximum TMP (kPa/mmHg)	66.5/500										
Valid Period	Irradiation sterilization, Valid for three years										

CLEARANCES (ML/MIN)

Test conditions: Q_D = 500 ml/min, In vitro simulation experiment.

Q _B	OCI-HD110L	OCI-HD130L	OCI-HD140L	OCI-HD150L	OCI-HD160L	OCI-HD170L	OCI-HD180L	OCI-HD190L	OCI-HD200L	OCI-HD210L	OCI-HD230L
Urea / (ml/min)											
200	176	178	180	182	185	187	190	192	194	195	197
300	224	227	230	233	235	238	242	246	250	254	262
400	262	266	270	274	278	284	290	295	300	305	315
Creatinine / (ml/min)											
200	166	168	170	172	175	178	182	185	188	191	197
300	207	211	215	218	220	223	227	231	235	239	247
400	239	243	247	251	255	260	265	270	275	280	290
Phosphate / (ml/min)											
200	147	151	155	158	160	164	168	170	172	174	178
300	177	181	185	188	191	195	200	205	210	215	225
400	200	205	210	215	220	222	225	232	240	248	264
Vitamin B12 / (ml/min)											
200	97	100	103	106	108	114	120	125	130	135	145
300	105	109	113	116	118	124	130	135	140	145	155
400	119	122	125	128	130	140	150	155	160	165	175



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