

Technical Specifications-HD series

Model		OCI-HD150	OCI-HD180	OCI-HD200	OCI-HD14L	OCI-HD16L	OCI-HD18L	OCI-HD20L
Ultrafiltration coefficient (mL/h·mmHg)		47	49	52	11	16	17	18
Surface Area (m ²)		1.5	1.8	2.0	1.4	1.6	1.8	2.0
Membrane material		Polyethersulfone (PES)						
Housing material		Polycarbonate (PC)						
Potting compound		Polyurethane (PU)						
Maximum TMP (kPa/mmHg)		66.5/500						
Clearances (mL/min) Q _B /Q _D (mL/min)								
Urea	200/500	190	193	195	180	183	188	192
	300/500	264	272	282	216	220	226	230
	400/500	306	317	333	252	256	263	268
Creatinine	200/500	186	188	192	170	175	180	183
	300/500	241	248	260	204	210	216	219
	400/500	269	279	300	221	227	234	237
Phosphate	200/500	183	186	189	160	163	167	172
	300/500	232	240	256	176	195	200	190
	400/500	256	267	289	208	253	217	223
Vitamin B ₁₂	200/500	152	157	160	80	91	102	113
	300/500	176	186	203	88	100	112	124
	400/500	196	206	232	94	105	122	129
Blood flow range (mL/min)		200~400						
Dialysate flow range (mL/min)		500~800						
Priming volume (mL)		105	120	136	90	105	118	130
Sieving coefficients	β ₂ -microglobulin	0.85						
	Inulin	1						
	Myoglobin	0.35						
	Albumin	≤0.01						

In vitro performance data was measured according to ISO 8637 / EN 1283
 Clearance: Q_B=500mL/min, Q_F=0mL/min, T=37 C
 Ultrafiltration coefficients: anticoagulant bovine plasma, protein content of 60±5g/L, Q_B=400mL/min
 In vitro results are likely to differ from in vivo results
 The performance might change with the duration of observation



Technical Specifications-HDF series

Model		OCI-HF160			OCI-HF170			OCI-HF180			OCI-HF200		
Ultrafiltration coefficient (mL/h·mmHg)		71			72			73			80		
Surface Area (m ²)		1.6			1.7			1.8			2.0		
Priming volume (mL)		100			107			112			123		
Membrane material		Polyethersulfone (PES)											
Housing Material		Polypropylene (PP)											
Potting compound		Polyurethane (PU)											
Maximum TMP (kPa/mmHg)		66.5/500											
Clearances (mL/min)		Q _B =500 mL/min, Q _F =50 mL/min											
Q _B (mL/min)		200	300	400	200	300	400	200	300	400	200	300	400
Urea		197	280	330	198	282	335	198	285	340	199	288	345
Creatinine		195	262	310	195	266	316	196	269	320	197	273	330
Phosphate		185	245	281	187	250	291	189	255	296	192	260	308
Vitamin B ₁₂		152	183	201	156	189	210	159	194	215	164	202	223
β ₂ -microglobulin		65	/	/	67	/	/	70	/	/	75	/	/
Blood flow range (mL/min)		200~400											
Dialysate flow range (mL/min)		500~800											
Sieving coefficients	Inulin	1											
	Myoglobin	0.4											
	Albumin	≤0.01											

In vitro performance data was measured according to ISO 8637 / EN 1283
 Clearance: Q_B=500 mL/min, Q_F=50 mL/min, T=37 C
 Ultrafiltration coefficients: anticoagulant bovine plasma, protein content 60±5g/L
 In vitro results are likely to differ from in vivo results
 The performance might change with the duration of observation

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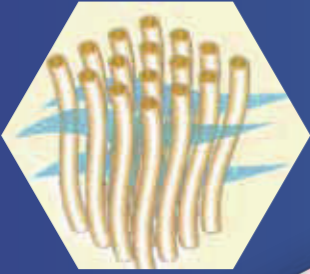


Advanced Membrane Design, higher clearance of uremic toxins especially for middle molecules



3D microwave structure

- The 3-dimensional microwave structure of the fibre ensures uniform radial dialysate flow around each fibre within the bundle by preventing fluid channeling, increasing contact area and time thereby further enhancing clearance values and improving the overall performance

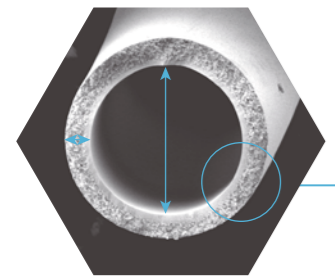


Ultrasonic bonding

- Ultrasonic bonding of the cap, avoid blood and dialysate leakage

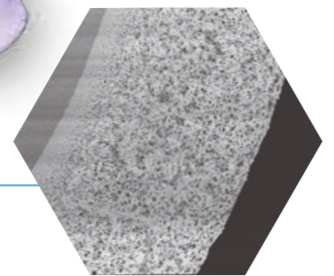
Smooth inlet port

- Smooth dialysate inlet port, friendly for connector of dialysis machine



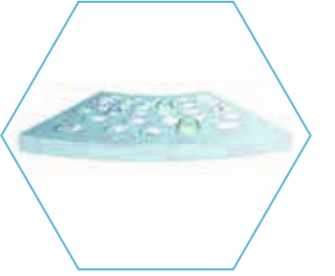
Designed fibre thickness & diameter

- The designed fibre thickness makes high ultrafiltration and clearance
- The specific inner fibre diameter ensures a good clearance effect while reducing the probability of blood clotting



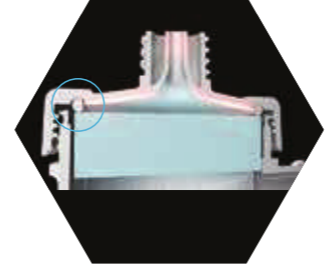
Smooth inner surface

- Extremely smooth inner surface improves the blood compatibility as well as biocompatibility



Specific pore diameter

- The specific pore diameter in inner surface ensure the removal of broad range of middle molecules as well as of low molecular weight substances, at the same time retent beneficial molecules like albumin



D-shape ring

- The D-shape ring improves the blood shear stress at the edge, and preventing the blood residuals effectively



Transparent cap

- Transparent cap, clear to see blood residuals after hemodialysis

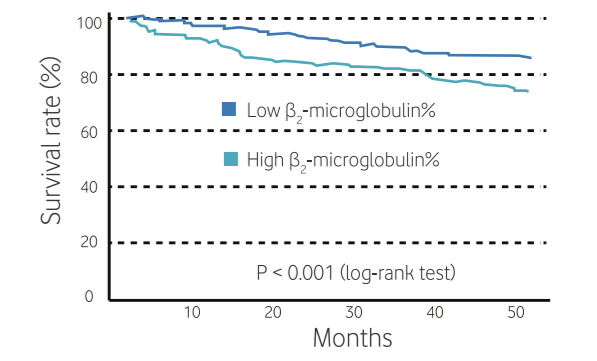
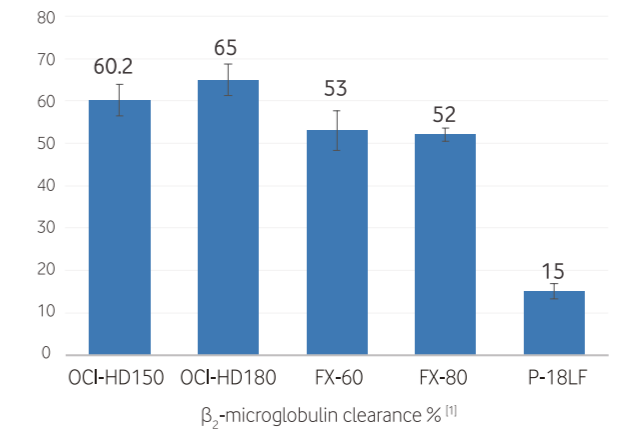
Spongy & porosity support region

- The spongy support region, optimizing porosity and therefore also the convective filtration of middle and large uremic toxins such as β_2 -microglobulin

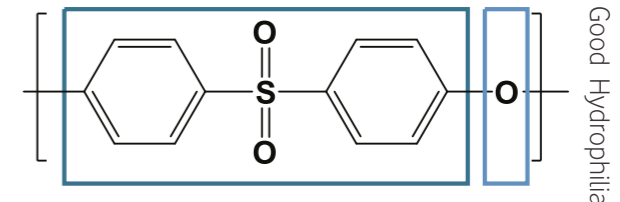
Diligent Housing and Port Design, optimizing for safety and performance

Outstanding middle molecules removal with high-flux dialyzer

- Improve patient survival rates
- Reduce inflammation markers
- Relieve the cutaneous pruritus
- Reduce the risk of developing amyloidosis



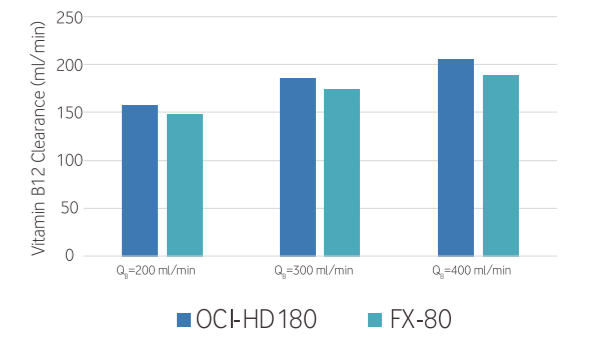
PES-Polyethersulfone



The most stable membrane material

- Better biocompatibility and hydrophilia
- Better physical and chemical properties
- Extremely low complement and albumin activation

OCI dialyzer has excellent toxins clearance



1. Reference: Bai ZZ, Chen JW, Zhang JJ, Wang SZ, Ma JY. Clinic investigation for domestic high-flux dialyzers of β_2 -microglobulin clearance[J]. Chinese Journal of Practical Internal Medicine. 2017, 37(9):75-77.
2. Okuno S, et al. Nephrol Dial Transplant. 2009; 24:571-577.