

# revaclear

## HIGH-PERFORMANCE IN HIGH FLUX TREATMENTS

The REVACLEAR dialyzers are high performing dialyzers designed specifically for maximizing the potential of dialysis. The REVACLEAR dialyzer series is a range of high efficiency, high-flux dialyzers that were designed to enhance safety and biocompatibility for your patients while maximizing clearance with a smaller surface area.<sup>1</sup>

## EXCEPTIONAL PERFORMANCE FOR YOUR PATIENTS<sup>2</sup>

Only the REVACLEAR dialyzers contain the unique PORACTON membrane designed to deliver high performance:

- Offers selective permeability with minimal resistance to diffusion<sup>3,4,5</sup>
- The removal of small and conventional middle molecules in high flux hemodialysis shown to be equivalent to a 22% larger surface area dialyzer<sup>2</sup>
- Three surface area options to meet your patients' clearance needs
- The 2.1m<sup>2</sup> REVACLEAR 500 dialyzer clears solutes similarly to a 19% larger competitor high-flux dialyzer<sup>6,7</sup>

## WITH SAFETY AND BIOCOMPATIBILITY IN MIND

- The REVACLEAR dialyzers offer less biohazardous waste and reduce saline use, compared to dialyzers of the same performance<sup>6,8</sup>
- Potentially reduces the risk of dialysis-induced clotting and micro inflammation<sup>9</sup>



# The revaclear Dialyzer

	revaclear 300	revaclear 400	revaclear 500
<b>MATERIAL</b>			
Membrane material	PORACTON (PAES + PVP) (BPA-free)		
Housing/header material	Polycarbonate (PC)		
Potting material	Polyurethane (PUR)		
O-rings (gasket material)	Silicon rubber (SIR)		
Sterilization agent	Steam		
Quantity per case	24		

<b>SPECIFICATIONS</b>			
KoA for urea*	1186	1439	1578
UF-Coefficient [ml/(h*mmHg)]	48	54	65
Blood flow rate (ml/min)	200-500	200-600	250-600
Dialysate flow rate (ml/min)	300-800		
Blood compartment volume (ml)	74	93	106
Residual blood volume (ml)	<1		
Recommended saline priming volume for rinsing (ml)	≥300		
Maximum TMP (mmHg)	600		

<b>MEMBRANE</b>			
Effective Membrane Area [m <sup>2</sup> ]	1.4	1.8	2.1
<b>Fiber dimensions</b>			
Wall thickness (μm)	35		
Inner diameter (μm)	190		

<b>SIEVING COEFFICIENT</b>		
Vitamin B <sub>12</sub> (1.4 kDa) <sup>a</sup>	1.0	
Inulin (5.2 kDa) <sup>a</sup>	1.0	
β <sub>2</sub> -microglobulin (11.8 kDa) <sup>b</sup>	0.95	
Myoglobin (17 kDa) <sup>b</sup>	0.68	
Albumin (66.4 kDa) <sup>b</sup>	0.0027	

<b>CLEARANCE IN VITRO (ml/min) ± 10% Q<sub>B</sub></b>	200	300	400	500	200	300	400	500	600	250	300	400	500	600
<b>Hemodialysis<sup>c</sup></b>														
Urea	196	272	323	356	198	281	338	375	401	244	284	345	384	410
Creatinine	191	256	298	326	195	267	315	348	370	238	272	323	357	381
Phosphate	185	242	278	303	191	255	297	326	346	230	261	306	336	358
Vitamin B <sub>12</sub>	146	174	191	204	158	191	213	228	240	183	200	223	240	252
<b>Hemodiafiltration<sup>d</sup></b>														
Urea	198	280	336	374	199	286	348	390	420	246	288	353	398	428
Creatinine	195	266	312	344	197	274	326	361	387	241	277	332	370	396
Phosphate	191	253	293	320	194	263	308	339	361	235	267	315	347	371
Vitamin B <sub>12</sub>	161	191	210	222	168	204	226	241	253	193	210	234	250	263

\* Q<sub>B</sub>=300ml/min, Q<sub>D</sub>=500ml/min, UF=0ml/min.

<sup>a</sup> In vitro according to EN 1283 / ISO 8637. Measured in bovine plasma.

<sup>b</sup> In vitro according to EN 1283 / ISO 8637. Measured in human plasma. Data on file, 2017.

<sup>c</sup> UF=0 ml/min, Q<sub>B</sub>=500 ml/min, Q<sub>D</sub> (ml/min)

<sup>d</sup> UF=60 ml/min, Q<sub>B</sub>=500 ml/min, Q<sub>D</sub> (ml/min)

For safe and proper use refer to the Instructions for Use

CE 0086

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