

# Revaclear

DESIGNED FOR:  
**HFHD** [High flux]

OTHER APPLICABLE THERAPIES:  
**CONVECTIVE** [HDF]

MEMBRANE:  
**PORACTON** [PAES/PVP, BPA-free]

## OPTIMIZING HIGH FLUX PERFORMANCE

The **Revaclear** dialyzer series is a range of high efficiency high-flux dialyzers designed to enhance safety and biocompatibility for your patients, while optimizing clearance with a smaller surface area.<sup>1</sup>

## OPTIMIZING PERFORMANCE FOR ALL YOUR PATIENTS<sup>2</sup>

The **Revaclear** dialyzers are designed to optimize the performance of high-flux treatments.

- The **Poracton** membrane provides effective permeability with minimal resistance to diffusion<sup>3,4,5</sup>
- Three surface area options are available to meet individual patient needs
- Study in HD showed **Revaclear 400** to remove small solutes and  $\beta_2$ -microglobulin to a similar extent as a 22% larger surface area dialyzer<sup>2</sup>

## WITH SAFETY AND BIOCOMPATIBILITY IN MIND

The relative compact surface area of the **Revaclear** dialyzers may help manage some patient risks.

- Reduces exposure of blood, potentially reducing clotting and micro inflammation<sup>6</sup>
- Produces less biohazardous waste and reduces saline need, compared to dialyzers of the same performance<sup>7,8</sup>



# Revaclear Specifications

MATERIALS	REVACLEAR 300	REVACLEAR 400	REVACLEAR 500
Membrane	<b>Poracton</b> Polyarylethersulfone and Polyvinylpyrrolidone blend BPA-free		
Potting	Polyurethane (PUR)		
Housing	Polycarbonate (PC)		
Gaskets	Silicone rubber (SIR)		
Protection caps	Polypropylene (PP)		
Sterilization	Steam (inside-out)		
Sterile barrier	Tyvek		

SPECIFICATIONS			
UF-Coefficient (mL/h*mmHg)*	48	54	65
KoA urea*	1186	1439	1578
Blood Compartment volume (mL)	74	93	106
Minimum recommended priming volume (mL)	300		
Maximum TMP (mmHg)	600		
Recommended Q <sub>B</sub> (mL/min)	200-500	200-600	250-600
Storage conditions	<30°C (or <86°F)		
Units per box	24		
Gross/net weight (g)	215/160	225/170	250/190

MEMBRANE			
Effective Membrane Area (m <sup>2</sup> )	1.4	1.8	2.1
Fiber inner diameter (µm)	190		
Fiber wall thickness (µm)	35		

SIEVING COEFFICIENTS*	
Vitamin B12 (1,4 kDa)	1.0
Inulin (5,2 kDa)	1.0
β <sub>2</sub> -microglobulin (11,8 kDa)	0.95
Myoglobin (17 kDa)	0.68
Albumin (66,4 kDa)	0.0027

- \* According to ISO 8637-1  
 - UF-Coefficient: measured with bovine blood, Hct 32%, Pct 60g/L, 37°C  
 - KoA urea: calculated at Q<sub>B</sub>=300 mL/min, Q<sub>D</sub>=500mL/min, UF=0 mL/min  
 - Sieving coefficients: measured with human plasma, Q<sub>B</sub>=300 mL/min, UF=60 mL/min  
 - Clearances In-Vitro: measured at UF=0 mL/min, ±10%

CLEARANCES IN VITRO (mL/min)*	REVACLEAR 300	REVACLEAR 400	REVACLEAR 500
<b>Urea (60 Da)</b> (Q <sub>B</sub> -Q <sub>D</sub> , mL/min)			
200-250**/500	196	198	244
300/500	272	281	284
400/500	323	338	345
400/800	355	369	375
500/800	408	430	439
<b>Creatinine (113 Da)</b>			
200-250**/500	191	195	238
300/500	256	267	272
400/500	298	315	323
400/800	330	348	355
500/800	373	398	409
<b>Phosphate (142 Da)</b>			
200-250**/500	185	191	230
300/500	242	255	261
400/500	278	297	306
400/800	309	330	338
500/800	345	373	384
<b>Vitamin B12 (1.4 kDa)</b>			
200-250**/500	146	158	183
300/500	174	191	200
400/500	191	213	223
400/800	212	236	247
500/800	228	256	269

\*\* REVACLEAR 500

1. Baxter. *REVACLEAR White Paper*. USMP/MG3/140052, May 2013.
2. Mauric A, et al. *Poster SP401*, presented at 50th ERA-EDTA congress. Istanbul (Turkey), 2013.
3. Ronco C, et al. *Evolution of synthetic membranes for blood purification: the case of the Polyflux family*. *Nephrol Dial Transplant* 2003;18(Suppl 7):vii10-20.
4. Ward R, et al. *Abstract SA-P0510*, presented at the 40th ASN congress. San Francisco (USA), 2007.
5. Bhimani JP, et al. *Effect of increasing dialysate flow rate on diffusive mass transfer of urea, phosphate and beta2-microglobulin during clinical haemodialysis*. *Nephrol Dial Transplant* 2010; 25:3990-3995.
6. Yao Q, et al. *Inflammation as a cause of malnutrition, atherosclerotic cardiovascular disease, and poor outcome in hemodialysis patients*. *Hemodial Int* 2004; 8:118-129.
7. Baxter. Data on file. *Biohazardous waste cost calculation*, 2015.
8. Baxter. *REVACLEAR dialyzer priming guide*. 306150152\_C, 2009.

Revaclear 300, Revaclear 400 and Revaclear 500 dialyzers are indicated for treatment of chronic & acute renal failure by Hemodialysis or Hemodiafiltration. The products meet the applicable provisions of Annex I (Essential Requirements) and Annex II (Full quality assurance system of the Council Directive 93/42/EEC of 14 June 1993, amended by Directive 2007/47/EC).

**For safe and proper use of the device, please refer to the Instructions for Use**



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