

AsahiKASEI

HEMODIALYZER

*ViE™ - X*

*VitabranE™*  
Vitamin E - interactive membrane



*Super HD & VitabranE*

ASAHI KASEI MEDICAL CO., LTD.  
A Pioneer in Blood Purification

HEMODIALYZER

# ViE™ - X

**VitabranE™**  
Vitamin E - interactive membrane

## Performance (in vitro)

	ViE-15X			ViE-18X			ViE-21X		
Blood Flow (mL/min)	200	300	400	200	300	400	200	300	400
Clearances (mL/min)									
Urea	196	268	319	197	274	327	198	278	339
Creatinine	194	265	312	197	272	319	198	276	331
Phosphate	183	229	267	188	241	281	191	250	293
Vitamin B <sub>12</sub>	141	162	181	151	177	195	159	188	210
Inulin (Qb=300mL/min)	-	103	-	-	113	-	-	124	-
KoA (Urea)* (mL/min)	1107			1239			1341		
KUF (mL/hr/mmHg (mL/hr/kPa))	76.1 (571)			87.9 (659)			104.3 (782)		
Effective Surface Area (m <sup>2</sup> )	1.5			1.8			2.1		
Sieving Coefficient									
Inulin	1.0								
β <sub>2</sub> -MG	0.9								
Myoglobin	0.8								
α <sub>1</sub> -MG	0.3								
Albumin	< 0.01								

**Conditions:** Clearances: Qd=500mL/min, Qf=0mL/min KUF: Bovine blood, Total protein = 60±5g/L, Hematocrit = 32±3%, Qb=300mL  
 Sieving Coefficient: Bovine plasma, Total protein = 60±5g/L EN ISO 8637-1:2020  
 \* KoA: Calculated from Urea clearance value obtained at Qb=300mL/min, Qd=500mL/min, Qf=0mL/min.

## Specifications

	ViE-15X	ViE-18X	ViE-21X
Membrane	VitabranE™ (Vitamin E-interactive Polysulfone)		
Internal Diameter of Hollow Fiber (µm)	185		
Wall Thickness of Hollow Fiber (µm)	45		
Priming Volume (mL)	86	103	117
Maximum TMP (mmHg(kPa))	500 (66)		
Maximum Blood Flow (mL/min)	500		
Maximum Dialysate Flow (mL/min)	800		
Dimensions (mm [L] x mm [D])	334 × 41	334 × 43	334 × 47
Weight (g)	463	520	604
Sterilization	Gamma-Ray		

Note: High permeability devices. Use only with ultrafiltration controlling equipment. EN ISO 8637-1:2020  
 Use ViE-X series dialyzers ONLY for HD.

### “Super HD” was defined as the following removal performances at

Qb=200±4mL/min, Qd=500±15mL/min, Qf=10±1mL/min/m<sup>2</sup>, surface area 1.5 m<sup>2</sup>,  
 β<sub>2</sub>-MG clearance: ≥70, Albumin Sieving coefficient: < 0.03

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