

Targeting for a high volume hemofiltration CRRT?



Prismaflex sets with PAES membrane
HF1000 set
HF1400 set

Leading the way

 **GAMBRO**[®]

Prismaflex HF1000 set / HF1400 set

General data

	Prismaflex HF1000 Set	Prismaflex HF1400 Set
Weight	780 g	820 g
Overall dimensions	27 x 22 x 9 cm	27 x 22 x 9 cm
Blood volume in set ± 10 %	165 ml	186 ml
Minimal patient weight	30kg	30kg

Materials

- PAES hollow fiber: Polyarylethersulfone
- Filter housing and headers: Polycarbonate
- Filter potting compound: Polyurethane
- Tubing material: plasticized polyvinyl chloride (PVC)
- Cartridge: PETG
- Sterilization mode: EtO (ethylene oxide)

Filter operating specifications

- Maximum TMP* (mmHg/kPa): 500/66.6
- Maximum blood pressure (mmHg/kPa): 500/66.6
- Minimum blood flow rate:
Prismaflex HF1000 Set: 75 ml/min
Prismaflex HF1400 Set: 100 ml/min

Filter data

- Nominal physical characteristics
 - Effective surface area:
Prismaflex HF1000 Set: 1.15 m²
Prismaflex HF1400 Set: 1.40 m²
 - Fiber internal diameter: 215 µm
 - Fiber wall thickness: 50 µm

In vitro performances

- Blood pressure drop (in post dilution mode)
(bovine blood, Hematocrit 32%, Pc*** = 60 g/l, T = 37°C)

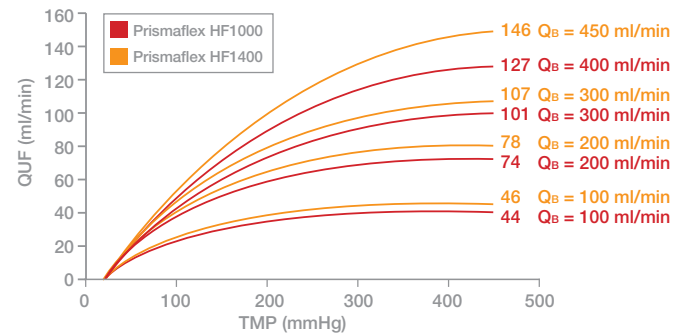
	Prismaflex HF1000 Set	Prismaflex HF1400 Set
$Q_B^{**} = 100 \text{ ml/min} - Q_{UF}^{****} = 2 \text{ l/h}$	37 mmHg	29 mmHg
$Q_B = 200 \text{ ml/min} - Q_{UF} = 2 \text{ l/h}$	51 mmHg	41 mmHg
$Q_B = 400 \text{ ml/min} - Q_{UF} = 2 \text{ l/h}$	81 mmHg	64 mmHg

Sieving coefficient

(bovine plasma, Pc 60 g/l, T = 37°C)
 QB = 100 ml/min, QUF = 20 ml/min (HF1000);
 QB = 300 ml/min, QUF = 60 ml/min (HF1400);
 Urea = 1, Creatinine = 1, Vitamin B12 = 1,
 Inulin = 0.99, Albumin <0.01

CVH Performances

- "In vitro" ultrafiltration with blood (in post-dilution)
(values ±15%) (Continuous venovenous hemofiltration)
(Bovine blood at 37°C, Hematocrit 32%, Pc*** 60 g/l).



CVHD Clearances

- Clearances versus inlet dialysate flow rate (Continuous venovenous hemodialysis) (Saline, T = 37°C).

	l/h ml/min	Prismaflex HF1000 Set $Q_B^{**} = 100 \text{ ml/min}$ $Q_{UF}^{****} = 0 \text{ ml/min}$				Prismaflex HF1400 Set $Q_B^{**} = 200 \text{ ml/min}$ $Q_{UF}^{****} = 0 \text{ ml/min}$			
		1	2.5	4	8	1	2.5	4	8
Q _o		17	42	67	133	17	42	67	133
Urea (±10%)		17	41	62	88	17	41	65	119
Vitamin B12 (±20%)		16	36	48	63	17	38	55	84
Inulin (±20%)		16	32	42	52	16	35	46	69

*Transmembrane pressure. **Access blood flow rate.

Protein concentration. *Ultrafiltration flow rate (1).

(1) The ultrafiltration flow rate is the "patient fluid removal flow rate + replacement flow rate + pre-blood-pump flow rate".

Ordering information	Factory ID	Code N°	N° units/box
PRISMAFLEX HF1000 Set	8399030	107140	4
PRISMAFLEX HF1400 Set	8399040	107142	4
SP414 - 5-liter bag	6032957	106690	50
SP418 - 9-liter bag	6033765	107650	30

