

prismaflex

HF1000 Set / HF1400 Set

Preconnected hemofilter sets for CRRT

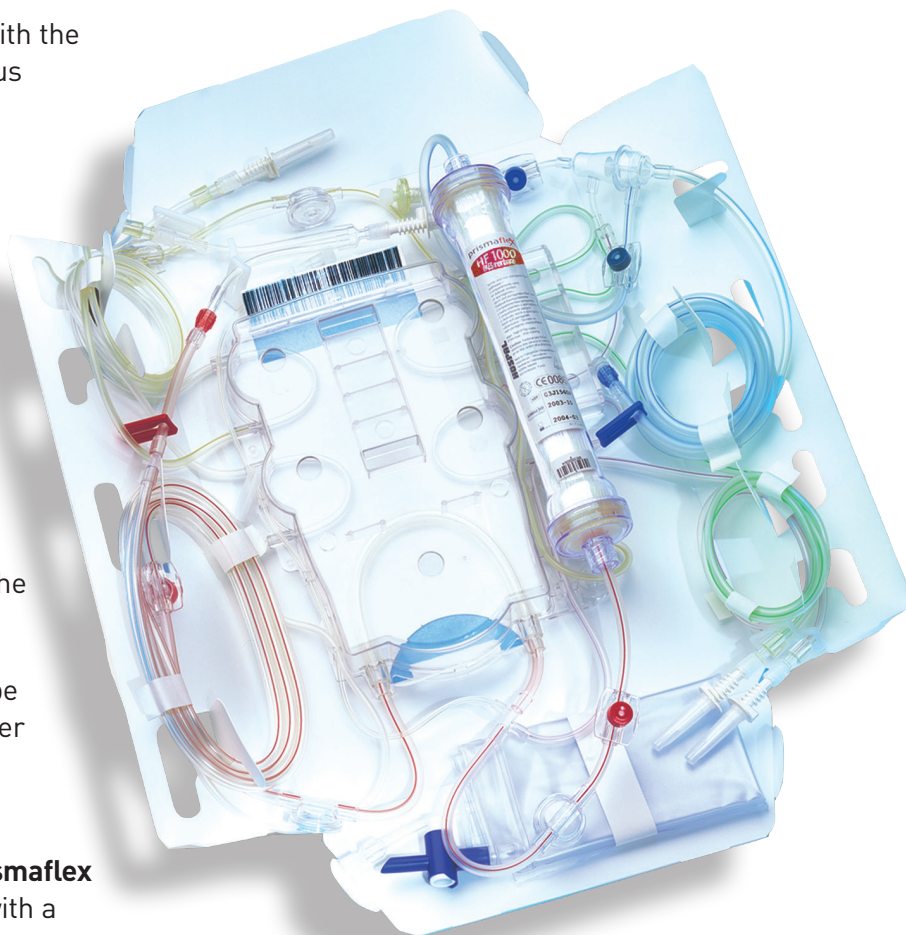
The **Prismaflex** Set is indicated for use only with the **Prismaflex** Control Unit in providing continuous fluid management and renal replacement therapies. The system is intended for patients who have acute renal failure, fluid overload, or both.

This set is intended for use in the following veno-venous therapies: SCUF; CVVH; CVVHD; CVVHDF.

All treatments administered via the **Prismaflex** Set must be prescribed by a physician. The size, weight, state of uremia, cardiac status, and general physical condition of the patient must be carefully evaluated by the prescribing physician before each treatment.

The **Prismaflex** HF1000/HF1400 sets should be restricted to patients with a body weight greater than 30 kg (66 lb).

The HF1000 and HF1400 hemofilter sets are designed for prescription flexibility on the **Prismaflex** System. Both set configurations are created with a Polyarylethysulfone (PAES) membrane and can be used to perform all CRRT therapies (SCUF, CVVH, CVVHD and CVVHDF). The HF1000 and HF1400 PAES membranes are designed for ultrafiltration of solutes with minimal protein absorption.



HF1000
HF1400

Prismaflex System sets
with the PAES membrane

Baxter

prismaflex HF1000 Set / HF1400 Set

Product Description

- Not made with natural rubber latex
- Hollow fiber hemofilter
- Ethylene Oxide (EtO) sterilization
- Hemofilter with preconnected tubing

- Features Include:**
- access line
 - return line
 - replacement line
 - dialysate line
 - effluent line
 - 5-liter effluent bag

General Data

	HF1000 Set	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

Materials

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

Filter Operating Specifications

- Maximum TMP* (mmHg/kPa): 500 mmHg / 66.6 kPa
- Maximum filter pressure (mmHg/kPa): 500 mmHg / 66.6 kPa
- Minimum blood flow rate:

Prismaflex HF1000 Set: 75 ml/min

Prismaflex HF1400 Set: 100 ml/min

Filter Data

Nominal physical characteristics

	HF1000 Set	HF1400 Set
Effective surface area:	1.1 m ²	1.4 m ²
Fiber internal diameter (wet):	215 µm	215 µm
Fiber wall thickness:	50 µm	50 µm

Sieving Coefficient

(bovine plasma, Pc 60 g/l, T = 37° C)

Q_B = 100 ml/min, Q_{UF} = 20 ml/min (HF1000/HF1400)

Urea = 1, Creatinine = 1, Vitamin B12 = 1, Inulin = 1, Albumin < 0.01

In Vitro Performance

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

	HF1000 Set	HF1400 Set
Q _B ** = 100 ml/min, QUF**** = 2 l/h	37 mmHg	29 mmHg
Q _B = 200 ml/min, QUF = 2 l/h	51 mmHg	41 mmHg
Q _B = 300 ml/min, QUF = 2 l/h	66 mmHg	53 mmHg
Q _B = 400 ml/min, QUF = 2 l/h	81 mmHg	64 mmHg
Q _B = 450 ml/min, QUF = 2 l/h	—	69 mmHg

CVVHD Clearance

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

		HF1000 Set				HF1400 Set			
		QB/QS** = 100 ml/min				QB/QS** = 200 ml/min			
		QUF**** = 0 ml/min				QUF**** = 0 ml/min			
Q _D	l/h	1	2.5	4	8	1	2.5	4	8
	ml/min	17	42	67	133	17	42	67	133
Urea	(±10%)	16.5	41	62	88	16.6	41	65	119
Vitamin B ₁₂	(±20%)	16.2	36	48	63	16.5	38	55	84
Inulin	(±20%)	16	32	42	52	16.4	35	46	69
Creatinine	(±10%)	16.5	41	61	84	16.6	41	65	114

*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

Catalog #	Description	Unit of sale
107140	Prismaflex HF1000 Set	4/case
107142	Prismaflex HF1400 Set	4/case

Rx Only. For the devices mentioned herein, please refer to the appropriate Operator's Manual.

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