

**Baxter**



# **PRISMAFLEX System**

## **HF1000/HF1400**

Hemofilter Sets

Making possible personal.

# PRISMAFLEX System

## HF1000/HF1400 Sets

### Preconnected Hemofilter Sets with the PAES Membrane 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 Polyarylethersulfone (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.

#### 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 <sup>2</sup>	1.4 m <sup>2</sup>
Fiber internal diameter (wet)	215 µm	215 µm
Fiber wall thickness	50 µm	50 µm

## Sieving Coefficient

(bovine plasma,  $P_c$  60 g/l,  $T = 37^\circ C$ )

$Q_B = 100$  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%,  $C_p^{***} = 60$  g/l,  $T = 37^\circ C$ )

	HF1000 Set	HF1400 Set
$Q_B^{**} = 100$ ml/min, $Q_{UF}^{****} = 2$ l/h	37 mmHg	29 mmHg
$Q_B = 200$ ml/min, $Q_{UF} = 2$ l/h	51 mmHg	41 mmHg
$Q_B = 300$ ml/min, $Q_{UF} = 2$ l/h	66 mmHg	53 mmHg
$Q_B = 400$ ml/min, $Q_{UF} = 2$ l/h	81 mmHg	64 mmHg
$Q_B = 450$ ml/min, $Q_{UF} = 2$ l/h	—	69 mmHg

## CVVHD Clearance

Clearance versus inlet dialysate flow rate

(Continuous venovenous hemodialysis) (Saline,  $T = 37^\circ C$ )

$Q_D$ l/h ml/min	HF1000 Set $Q_B/Q_S^{**} = 100$ ml/min $Q_{UF}^{****} = 0$ ml/min				HF1400 Set $Q_B/Q_S^{**} = 200$ ml/min $Q_{UF}^{****} = 0$ ml/min			
	1 17	2.5 42	4 67	8 133	1 17	2.5 42	4 67	8 133
Urea ( $\pm 10\%$ )	16.5	41	62	88	16.6	41	65	119
Vitamin B12 ( $\pm 20\%$ )	16.2	36	48	63	16.5	38	55	84
Inulin ( $\pm 20\%$ )	16	32	42	52	16.4	35	46	69
Creatinine ( $\pm 10\%$ )	16.5	41	61	84	16.6	41	65	114

\*Transmembrane pressure.

\*\*Access blood flow rate.

\*\*\*Protein concentration.

\*\*\*\*Ultrafiltration flow rate - 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



**Contact your local Baxter sales representative to learn more about the product.**  
**For Customer Support, call 800-525-2623.**

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**Rx Only.** For the devices mentioned herein, please refer to the appropriate *Instructions for Use*.

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