

# Looking for reducing the thrombogenicity of the extracorporeal device?

Vienkartinio naudojimo filtru ir kraujo magistraliu komplektai, sumažinantys trombogeniškumą sistemoje, skirti ilgalaikiai venoveninei hemofiltracijai, hemodiafiltracijai ir hemodializei atlikti, tinkantys Gambro „Prismaflex“ tipo aparatams: dializatoriaus membrana iš akrilonitrilo ir natrio metilsulfonato kopolimero, paviršiaus plotas padengtas polietileniminu;

## **Prismaflex ST 100**

paviršiaus plotas 1,0 m<sup>2</sup>;  
kraujo turis sistemoje 152 ml;  
leistinas kraujo greitis procedūros metu 75-400 ml/min;  
magistralės iš polivinilchlorido;  
sterilizacija etileno oksidu.

## **Prismaflex ST 150**

paviršiaus plotas 1,5 m<sup>2</sup>;  
kraujo turis sistemoje 189 ml;  
leistinas kraujo greitis procedūros metu 100-450 ml/min;  
magistralės iš polivinilchlorido;  
sterilizacija etileno oksidu.

## **Prismaflex M100**

Vienkartinio naudojimo filtru ir kraujo magistralių komplektai skirti ilgalaikiai venoveninei hemofiltracijai, hemodiafiltracijai ir hemodializei atlikti, tinkantys Gambro „Prismaflex“ tipo aparatams: dializatoriaus membrana iš akrilonitrilo ir natrio metilsulfonato kopolimero;  
paviršiaus plotas 0,9 m<sup>2</sup>;  
kraujo turis sistemoje 152 ml;  
leistinas kraujo greitis procedūros metu 75-400 ml/min;  
magistralės iš polivinilchlorido;  
sterilizacija etileno oksidu.

## **Prismaflex M150**

Vienkartinio naudojimo filtru ir kraujo magistralių komplektai skirti ilgalaikiai venoveninei hemofiltracijai, hemodiafiltracijai ir hemodializei atlikti, tinkantys Gambro „Prismaflex“ tipo aparatams: dializatoriaus membrana iš akrilonitrilo ir natrio metilsulfonato kopolimero;  
paviršiaus plotas 1,5 m<sup>2</sup>;  
kraujo turis sistemoje 189 ml;  
leistinas kraujo greitis procedūros metu 100-450 ml/min;  
magistralės iš polivinilchlorido;  
sterilizacija etileno oksidu.

## Prismaflex sets with the AN69ST membrane

ST60 set

ST100 set

ST150 set

# Prismaflex ST60 set / ST100 set / ST150 set

## General data

	Prismaflex ST60 Set	Prismaflex ST100 Set	Prismaflex ST150 Set
Weight	780 g	805 g	905 g
Overall dimensions	27 x 22 x 9 cm	27 x 22 x 9 cm	27 x 22 x 9 cm
Blood volume in set ± 10 %	93 ml	152 ml	189 ml
Minimal patient weight	20 Kg	30 Kg	30 Kg

## Materials

- AN69 ST hollow fiber:
  - Acrylonitrile and sodium methallyl sulfonate copolymer
  - Surface treatment agent: Polyethylene imine
- 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): 450/60
- Maximum blood pressure (mmHg/kPa): 500/66.6
- Range of blood flow rate:
  - Prismaflex ST60 Set: 50 – 180 ml/min
  - Prismaflex ST100 Set: 75 – 400 ml/min
  - Prismaflex ST150 Set: 100 – 450 ml/min

## Filter data

- Nominal physical characteristics
  - Effective surface area:
    - Prismaflex ST60 Set: 0.6 m<sup>2</sup>
    - Prismaflex ST100 Set: 1.0 m<sup>2</sup>
    - Prismaflex ST150 Set: 1.5 m<sup>2</sup>
  - Fiber internal diameter (wet): 240 µm
  - Fiber wall thickness: 50 µm

## In vitro performances

- Blood priming volume in filter ±10%,
  - TMP = 100 mmHg
  - Prismaflex ST60 Set: 44 ml
  - Prismaflex ST100 Set: 69 ml
  - Prismaflex ST150 Set: 105 ml
- Blood pressure drop (in post dilution mode)
  - (bovine blood, Hematocrit 32%, Pc\*\*\* = 60 g/l, T = 37°C)

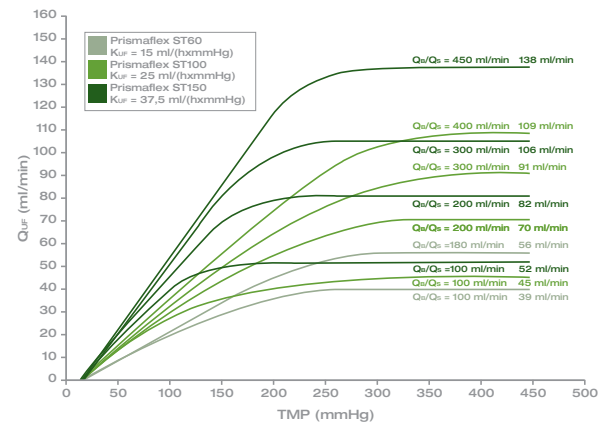
	Prismaflex ST60 Set	Prismaflex ST100 Set	Prismaflex ST150 Set
$Q_b^{**} = 100 \text{ ml/min} - Q_{UF}^{****} = 1 \text{ l/h}$	46 mmHg	31 mmHg	20 mmHg
$Q_b = 180 \text{ ml/min} - Q_{UF} = 2 \text{ l/h}$	84 mmHg	55 mmHg	—
$Q_b = 300 \text{ ml/min} - Q_{UF} = 2 \text{ l/h}$	—	79 mmHg	51 mmHg
$Q_b = 400 \text{ ml/min} - Q_{UF} = 2 \text{ l/h}$	—	100 mmHg	64 mmHg

## Sieving coefficient

(bovine plasma, Pc 60 g/l, T = 37°C)  
 Urea = 1, Creatinine = 1, Vitamin B12 = 1,  
 Inulin = 0.96, Myoglobin = 0.58, Albumin ≤0.01

## CVVH 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).



## CVVHD Clearances

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

	Prismaflex ST60 Set QB** = 100 ml/min QUF**** = 0 ml/min			Prismaflex ST100 Set QB** = 150 ml/min QUF**** = 0 ml/min				Prismaflex ST150 Set QB** = 200 ml/min QUF**** = 0 ml/min			
QD l/h	1	2.5	4	1	2.5	4	8	1	2.5	4	8
ml/min	17	42	67	17	42	67	133	17	42	67	133
Urea (±10%)	17	40	56	17	41	63	97	17	42	66	117
Vitamin B12 (±20%)	15	26	30	16	32	41	50	17	38	51	68
Inulin (±20%)	13	19	22	15	26	30	35	16	33	40	49

\*Transmembrane pressure. \*\*Access blood flow rate.

\*\*\*Protein concentration. \*\*\*\*Ultrafiltration flow rate (l).

(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 ST60 Set	8353551	107643	4
PRISMAFLEX ST100 Set	8353562	107636	4
PRISMAFLEX ST150 Set	8353573	107640	4
SP414 - 5-liter bag	6032957	106690	50
SP418 - 9-liter bag	6033765	107650	30

