How can diffusion, convection and adsorption be combined for an optimally balanced CRRT?

Envisioned HOSPAL

Prismaflex sets with the AN69 membrane

M60 set

M100 set

M150 set

Leading the way

GAMBRO®

Prismaflex M60 set / M100 set / M150 set

General data

	Prismaflex M60 Set	Prismaflex M100 Set	Prismaflex M150 Set
Weight	780 g	800 g	860 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	20Kg	30 Kg	30 Kg

Materials

- AN69 HF hollow fiber: - Acrylonitrile and sodium methallyl sulfonate copolymer
- 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 M60 Set: 50 – 180 ml/min
  Prismaflex M100 Set: 75 – 400 ml/min
  Prismaflex M150 Set: 100 – 450 ml/min

Filter data

- Nominal physical characteristics
  - Effective surface area:
    Prismaflex M60 Set: 0.6 m²
    Prismaflex M100 Set: 0.9 m²
    Prismaflex M150 Set: 1.5 m²
  - Fiber internal diameter (wet): 240 µm
  - Fiber wall thickness: 50 µm

In vitro performances

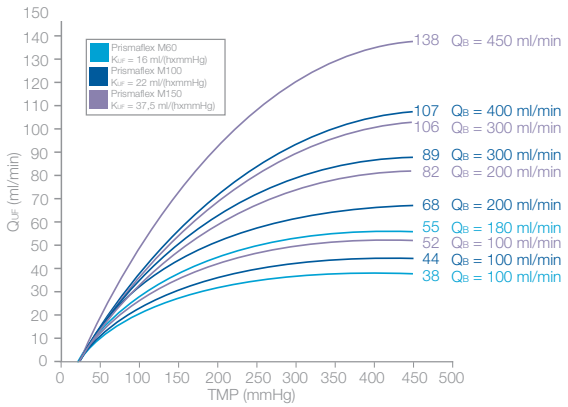
- Blood priming volume in filter ±10%,
  TMP = 100 mmHg
  Prismaflex M60 Set: 42 ml
  Prismaflex M100 Set: 66 ml
  Prismaflex M150 Set: 105 ml
- Blood pressure drop (in post dilution mode)
  (bovine blood, Hematocrit 32%, Pc*** = 60 g/l, T = 37°C)

	Prismaflex M60 Set	Prismaflex M100 Set	Prismaflex M150 Set
Q_B** = 100 ml/min - Q_{UF}**** = 1l/h	47 mmHg	31 mmHg	20 mmHg
Q_B = 180 ml/min - Q_{UF} = 2l/h	91 mmHg	60 mmHg	–
Q_B = 300 ml/min - Q_{UF} = 2l/h	–	73 mmHg	51 mmHg
Q_B = 400 ml/min - Q_{UF} = 2l/h	–	105 mmHg	64 mmHg

- Sieving coefficient
  (bovine plasma, Pc 60 g/l, T = 37°C)
  Urea = 1, Creatinine = 1, Vitamin B12 = 1,
  Inulin = 0.95, Myoglobin = 0.55, 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 versus inlet dialysate flow rate (Continuous venovenous hemodialysis) (Saline, T = 37°C).

	Prismaflex M60 Set QB** = 100 ml/min QUF**** = 0 ml/min			Prismaflex M100 Set QB** = 150 ml/min QUF**** = 0 ml/min				Prismaflex M150 Set QB** = 200 ml/min QUF**** = 0 ml/min			
QD l/h ml/min	1 17	2.5 42	4 67	1 17	2.5 42	4 67	8 133	1 17	2.5 42	4 67	8 133
Urea (±10%)	17	39	54	17	41	63	95	17	42	66	117
Vitamin B12 (±20%)	14	23	28	16	30	37	45	17	37	49	64
Inulin (±20%)	12	17	19	14	23	26	30	16	31	37	45

*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 M60 Set	8353510	106696	4
PRISMAFLEX M100 Set	8353520	106697	4
PRISMAFLEX M150 Set	8353584	109990	4
SP414 - 5-liter bag	6032957	106690	50
SP418 - 9-liter bag	6033765	107650	30

Gambro Lundia AB, Branding & Market Communication, P O Box 10101, SE-22010 Lund, Sweden, Phone +46 46 16 90 00, Fax +46 46 16 91 75, www.gambro.com

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