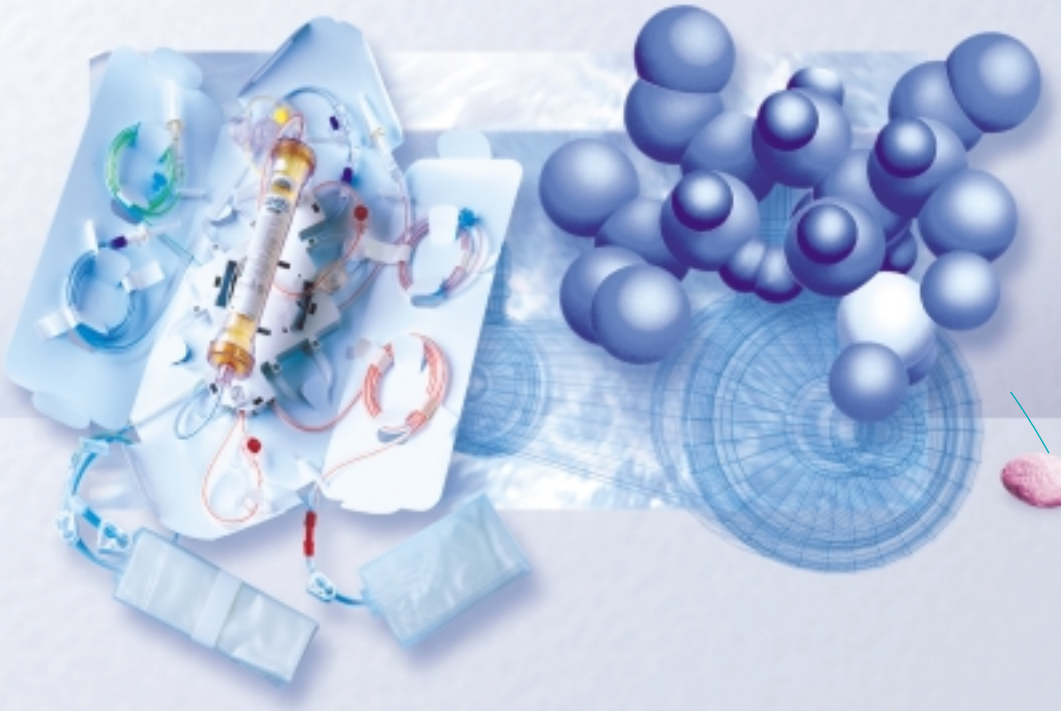
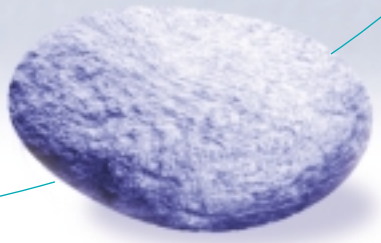
PRISMA

SETS



Disposables including filters
equipped with the AN69 membrane
uniquely combining diffusion,
convection and adsorption properties



leading the way...

HOSPAL

Renal Intensive Care

New design for improved safety

General data

- Weight:
  Prisma M60 Set: 600 g
  Prisma M100 Set: 620 g
- Overall dimensions:
  Prisma M60 Set: 38 x 21 x 9 cm
  Prisma M100 Set: 38 x 21 x 10 cm
- Blood volume in set ±10%:
  Prisma M60 Set: 84 ml
  Prisma M100 Set: 107 ml

Materials

- Tubing material:
  plasticized polyvinyl chloride (PVC)
- Cartridge plate and filter bracket:
  Acrylonitrile-butadiene-styrene (ABS)
- Sterilization mode:
  EtO (ethylene oxide)

Filter operating specifications

- Maximum TMP* (mmHg/kPa): 450/60
- Minimum blood flow rate:
  Prisma M60 Set: 50 ml/min
  Prisma M100 Set: 75 ml/min
- Maximum blood pressure (mmHg/kPa): 500/66.6

Filter data

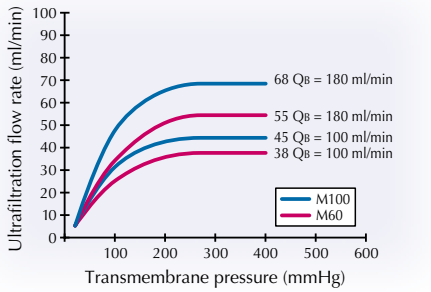
- Materials
  - AN69HF hollow fiber:
    Acrylonitrile and sodium methallyl sulfonate copolymer
  - Housing and headers: polycarbonate
  - Potting compound: polyurethane
- Nominal physical characteristics
  - **Effective surface area:**
    Prisma M60 Set: 0.60 m²
    Prisma M100 Set: 0.90 m²
  - Fiber internal diameter (wet): 240 µm
  - Fiber wall thickness: 50 µm

In vitro performances

- Blood priming volume ±10% - TMP = 100 mmHg
  Prisma M60 Set: 42 ml
  Prisma M100 Set: 65 ml
- Blood pressure drop (in post dilution mode)
  (bovine blood, Hematocrit 32%, Pc*** = 60 g/l, T = 37°C)
  Q_B** = 100 ml/min - Q_{UF}**** = 1l/h
  Prisma M60 Set: 47 mmHg
  Prisma M100 Set: 27 mmHg
  Q_B = 180 ml/min - Q_{UF} = 2l/h
  Prisma M60 Set: 91 mmHg
  Prisma M100 Set: 45 mmHg
- Ultrafiltration coefficient with blood
  TMP 25 to 100 mmHg
  (bovine blood, Hematocrit 32%, Pc 60 g/l, T = 37°C)
  Prisma M60 Set: 16 ± 3 ml/(h x mmHg)
  Prisma M100 Set: 22 ± 3 ml/(h x mmHg)
- Sieving coefficient
  (bovine plasma, Pc 60 g/l, T = 37°C, Q_B = 100 ml/min, Q_{UF} = 20 ml/min)
  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).



* 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".

CVVHD Clearances

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

	PRISMA M60 Set Q_B = 100 ml/min Q_{UF} = 5 ml/min			PRISMA M100 Set Q_B = 150 ml/min Q_{UF} = 10 ml/min		
Dialysate flow rate						
(l/h)	1	1.5	2	1	2	2.5
(ml/min)	17	25	33	17	33	42
Urea ±10% (ml/min)	22	29	37	27	43	51
Vit. B12 ±20% (ml/min)	18	22	25	26	35	38
Inulin ±20% (ml/min)	15	17	19	22	27	28

Ordering information

	catalog N°	units/box
Prisma M60 set (postdilution)	8353415	4
Prisma M60 Pre Set	8353402	4
Primsa M100 Set (postdilution)	8353490	4
Prisma M100 Pre Set	8353486	4

HOSPAL Renal Intensive Care

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