Vantive

ST60/ST100/ST150 SETS WITH **AN69**

Membrane for Continuous Renal Replacement Therapy
Powered by **PrisMax** and **Prismaflex**

ST60 / ST100 / ST150 SETS

The **Prismaflex** set is indicated for use only with the **Prismaflex** control unit or with the **PrisMax** 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.

Physical characteristics (1)

	ST60 set	**ST100** set	**ST150** set
Membrane effective surface area	0.6 m^2	1 m^2	1.5 m^2
Fiber internal diameter (wet)	240 µm		
Fiber wall thickness	50 µm		
Blood volume in set	97 mL	155 mL	193 mL
Overall dimensions	27 x 22 x 9 cm	27 x 22 x 9 cm	27 x 22 x 9 cm
Weight	772 g	828 g	894 g
Minimal patient weight	11 kg	30 kg	30 kg

Materials

AN 69 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)

Operating parameters

Maximum TMP (mmHg/kPa)	450/60
Maximum blood pressure (mmHg/kPa)	500/66.6

	ST60 set	**ST100** set	**ST150** set
Minimum blood flow rate	50 mL/min	75 mL/min	100 mL/min
Maximum blood flow rate	180 mL/min	400 mL/min	450 mL/min

Performance Specifications (2)

Maximum ultrafiltration rate (mL/min) (3)
(bovine blood, Hct 32%, Cp 60 g/L, 37°C)

	ST60 set		**ST100** set				**ST150** set			
QB (mL/min)	100	180	100	200	300	400	100	200	300	450
Max.QUF (± 20%)	39	56	45	70	91	109	52	82	106	136

Sieving coefficient (bovine plasma, Cp 60 g/L, 37°C) QB = 100 mL/min, QUF = 20 mL/min	
> Urea	1
> Vitamin B_{12}	1
> Inulin	0.96

Sieving coefficient (human plasma, Cp 60 g/L, 37°C) QB = 100 mL/min, QUF = 20 mL/min	
> Myoglobin	0.70
> Albumin	< 0.0045

Clearance

Clearance (mL/min) (saline solution; 37°C)

Parameters:	**ST60** set			**ST100** set				**ST150** set			
QB/QS	100 mL/min			150 mL/min				200 mL/min			
QUF	0 mL/min			0 mL/min				0 mL/min			
QD L/h	1	2.5	4	1	2.5	4	8	1	2.5	4	8
QD 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 B_{12} (±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

(1) Nominal values – given for indication.
(2) Typical mean values obtained from laboratory testing of post-sterilization sample lots. Results may vary depending on patient and clinical conditions.
(3) Ultrafiltration is controlled by the control unit and is independent of the ultrafiltration coefficient (KUF).

Acronyms

TMP:	Transmembrane pressure
QB/QS:	Arterial blood flow rate
QUF:	Ultrafiltration flow rate (fluid removal + replacement flow rate + pre blood pump flow rate)
QD:	Dialysate flow rate
Hct:	Hematocrit
Cp:	Protein concentration

Odering information

	Code N°	N° units/box
ST60 set	107643	4
ST100 set	107636	4
ST150 set	107640	4
5-liter effluent bag	114423	50

For safe and proper use of the devices mentioned herein, please refer to the Instructions for Use or Operator's Manual.

Vantive ULC
6675 Millcreek Drive, Unit 2
Mississauga ON L5N 5M4
Canada
www.vantive.com

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