

PRISMAFLEX 8.1

For continuous extracorporeal blood purification therapies



prismaflex

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Specifications	Anticoagulation syringe pump (cont.)
Physical dimensions	Regional Citrate-Calcium PRISMAFLEX system syringe pump anticoagulation method: Syringe volume range: 50 ml with luer lock Calcium delivery rate range: 0 or 2.0 to 100 ml/h Calcium concentration range: 80–1000 mmol/l The integrated syringe pump is used for calcium infusion and requires a dedicated PRISMAFLEX system calcium infusion line connected to the syringe.
Height: 163 cm, Width: 49 cm, Depth: 40 cm Floor space: 70 x 70 cm Weight: approx. 78 kg	Safety systems
Modality options	Integrated barcode reader to automatically identify loaded treatment set
CRRT: SCUF, CVVH PRE and/or POST, CVVHD, CVVHDF PRE or POST Anticoagulation: Syringe, Citrate/Calcium Therapeutic Plasma Exchange, Hemoperfusion, MARS, PRISMALUNG	Integrated alarm management for audible and visual alarm signals with on-screen guidance
Electrical data	Ultrasonic air detector: detects single air bubble $\geq 20 \mu\text{l}$
Supply 100-240 +/- 10% Vac, 50/60 Hz Maximum power consumption <600 W Normal average power consumption 150 W Input line current: 5A max rms at 100 Vac, 2.5A max rms at 240 Vac	Blood leak detector: Leak $\geq 0.35 \text{ ml/min}$ at 0.25 Hct, for effluent flow rate below 5500 ml/h Leak $\geq 0.50 \text{ ml/min}$ at 0.32 Hct, at highest effluent flow rate
Flow rate ranges*	Fluid leak detector: Detects fluids greater than 50 ml
Blood: 10 to 450 ml/min Increment: 2-10 ml/min Accuracy: +/- 10% of user-set rate (at nominal blood flow of 450 ml/min or the highest achievable disposable blood flow, having 37 °C, at an access pressure of -200 mmHg and without any PBP flow).	Management of electrostatic charges to avoid ECG interference
Replacement: 0 to 8000 ml/h Increment: 10-50 ml/h	Full battery backup enables continuous treatment delivery for at least 10 min
Dialysate: 0 to 8000 ml/h Increment: 50 ml/h	Pressure monitoring: Access pressure: -250 to +450 mmHg, accuracy: +/- 15 mmHg Return pressure: -50 to +350 mmHg, accuracy: +/- 5 mmHg Pre filter pressure: -50 to +450 mmHg, accuracy: +/- 15 mmHg Effluent pressure: -350 to +400 mmHg, accuracy: +/- 15 mmHg
Pre-blood pump (PBP): 0 to 4000 ml/h Increment: 2-50 ml/h	IEC60601 3/4rd edition compliant
Patient fluid removal: 0 to 2000 ml/h Increment: 5–10 ml/h	Features
Fluid control	Fully integrated and preconnected sets that are automatically loaded, primed and tested
Gravimetric fluid management, based on 4 scales Scales range: 0 to 11 kg 7 g deviation for a solution bag of 5200 g (equivalent to 0.14%)	Touchscreen 12", Color TFT-LCD screen provides all relevant treatment data (prescription, flows, pressures)
Anticoagulation options	Memory stores up to 96 hours of treatment data
Systemic, integrated syringe pump Regional Citrate – Calcium, external pump Regional Citrate – Calcium, integrated syringe pump No anticoagulation	Optimized deaeration chamber avoids blood-air interface
Anticoagulation syringe pump	Small extracorporeal blood volume (60–189 ml, depending on set combination in use)
Systemic integrated syringe pump anticoagulation method: Syringe volume range: 20, 30 and 50 ml with luer lock Continuous delivery rate range: 0, or 0.5 to 5 ml/h for 20 ml syringes 0, or 0.5 to 10 ml/h for 30 ml syringes 0, or 2.0 to 20 ml/h for 50 ml syringes Increment: 0.1 ml/h Bolus volume range: 0.5 to 5 ml for 20 ml syringes 1 to 5 ml for 30 ml syringes 2 to 9.9 ml for 50 ml syringes	Integrated on-screen guidance for Hemoperfusion, MARS, TPE and PRISMALUNG set-up
	Software-controlled pinch valves allows selection of pre- and/or post-dilution ratio that can be modified during the treatment
	Optional accessories
	Blood warmer to maintain patient temperature
	External connections
	PDMS connectivity via RS-232 serial port and RJ-45 ethernet port USB 2.0 compatibility Remote alarm connection
	* Flow rate ranges, limits and increments depend on the PRISMAFLEX therapy/ disposable set combination in use
	Please refer to the Operators Manual for further information.