DIANOVA SERIESHEMODIALYSIS MACHINE





PREMIUM SYSTEM FOR ADVANCED DIALYSIS CARE





DIANOVA HD SYSTEM



Complete Therapy Range

Machine Models	Pump Systems	Clinical Applications
DIANOVA X1	Blood Pump Heparin Pump	Hemodialysis Hemoperfusion Ultrafiltration
DIANOVA X2	Blood Pump Heparin Pump Substitution Pump	Hemodialysis Hemofiltration Hemoperfusion Ultrafiltration Hemodiafiltration Online Hemodiafiltration



Comprehensive Monitoring

- **ONLINE KT/V MONITORING:** ensures proper dialysis dose is delivered in real time.
- **BLOOD PRESSURE MONITORING:** automated and non-invasive system to control blood pressure.
- **BLOOD VOLUME MONITORING:** allows ultrafiltration monitoring according to blood volume variations.
- **BLOOD TEMPERATURE MONITORING:** controls body temperature to ensure hemodynamic balance.
- NETWORK MONITORING: interface to connect to renal unit software for centralized data management; USB port also available as alternative to download data.



DIANOVA HD SYSTEM

STATE-OF-THE-ART TECHNOLOGY. REAL TIME 360° MONITORING. YET VERSATILE AND EASY-TO-USE.

Advanced Support Features



Flat, rotating 15-inch touch screen for increased readability and convenience.

Ingenious, user-friendly software with high degree of monitoring and personalization.



Bicarbonate cartridge connection to optimize hygiene, cleanliness and safety.

Automated, online priming without the use of serum nor personnel intervention.



Heparin pump designed for multiple syringe sizes with automated syringe size detection, self-test alarm system and heparin profiling.



VP air detector with dual ultrasonic and optical monitoring system for precise bubble catching, safe blood return and continuous micro-bubble detection.



Endotoxin filtration system: single stage on DIANOVA X1 model for high purity HD and double-stage on DIANOVA X2 model for HDF online.



40 min back-up battery in the event of power outage.

Facilitated maintenance through smart maintenance mode and clear, simplified organization of electric and hydraulic compartments.

Connection to centralized concentrate supply system.



DIANOVA HD SYSTEM

Technical Data

Blood pump and substitution pu

Blood flow rate	0 to 650 mL/min; Accuracy: ±10%	
Substitution flow rate	0 to 650 mL/min; Accuracy: ±10%	
Substitution flow range	0 to 39 L/h (HDF online)	
Heparin pump		
Heparin pump flow	0 to 10 mL/h; Accuracy: ±0.2 mL/h	
Heparin pump flow resolution	0.1 mL/h	
Syringe size	10 mL, 20 mL, 30 mL, 50 mL	
Injection rate	10 to 1800 mL/h	
Dialysis fluid and conductivity		
Dialysate flow	0, 100 to 1000 mL/min; Accuracy: < ±5%	
Dialysate flow resolution	1 mL/min	
Dialysate temperature	33 to 40°C; Accuracy: ±0.5°C	
Dialysate conductivity	12.0 to 18.0 mS/cm; Accuracy: ±0.1 mS/cm	
Ultrafiltration control		
UF rate	0 to 6000 mL/h	
Monitoring system		
VP	-700 to 800 mmHg; Accuracy: ±5 mmHg	
AP	-700 to 800 mmHg; Accuracy: ±5 mmHg	
TMP	-700 to 800 mmHg; Accuracy: ±5 mmHg	
Blood leakage monitor	≥ 0.35 mL/min (HCT 32%)	
Air detector	≥ 0.02 mL bubbles or ≥ 0.0003 mL continuous small bubbles	
Disinfection and cleaning		
Rinse	Water / 37°C / 700 mL/min	
Hot Rinse	Water / 93°C / 700 mL/min	
Decalcification	20% - 30% - 50% Citric Acid / 37°C / 700 mL/min	
Thermal disinfection	20% - 30% - 50% Citric Acid / 93°C / 700 mL/min	
Chemical disinfection	5% - 10% Sodium Hypochlorite / room temperature / 700 mL/min	
Blood pressure monitoring (Non-Invasive)		
Blood pressure range	0 to 300 mmHg	
Resolution	1 mmHg	
Pulse monitoring range	30 to 220 bpm	
Pulse monitoring accuracy	± 3 bpm	
Dimensions and weight		
Dimensions	1460 x 490 x 715 mm	
Weight	approx. 85 kg	
Water supply		
Pressure	0.5 to 8.0 bar	
Temperature	5 to 30 °C	
Power supply		
Main voltage	100 to 240 V AC	
Frequency	50 to 60 Hz	
Back-up battery	40 min	
Running environment		
Temperature	10 to 40 °C	
Humidity	≤ 75%	
Atmospheric pressure	70 kPa to 106 kPa (700 to 1060 mbar)	
Protective grade	IPX1	
Heater Power	1800 W	



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