

# Surdial™ X

Equipped with various monitoring and profile functions to pursue optimized treatments

## Special Features

- 15 inch clear touch display
- On-line HDF (Double needle and Single needle with double blood pumps)
- Machine assisted loading infusion pump segments of bloodline

CE<sub>0123</sub>

## Specifications

General data	
Dimension	480(W)×895(D)×1625(H)
Weight	Approx. 120kg
Power supply	AC230V±10%, 50/60Hz AC110V±10%, 50/60Hz
Power consumption	Max. 2000VA
Water supply	Temperature : 5 to 30°C Pressure : 0.05 to 0.74 MPa Flow rate : 900mL/min or more
Extracorporeal circuit	
Arterial pressure monitoring	Measurement range : -500 to 500 mmHg Accuracy : ±10mmHg
Venous pressure monitoring	Measurement range : -500 to 500 mmHg Accuracy : ±10mmHg
Arterial blood pump Single needle pump(option)	Flow range : 0,10 to 600mL/min Accuracy : ±10%
ON-LINE HDF pump(option)	Flow range : 0,10 to 500mL/min Accuracy : ±10%
Air bubble detector	Ultrasonic sensor Two conditions create an air bubble alarm: any single bubble greater than 10 µL in size and when bubbles of 0.3 µL or larger, accumulate over a 1-minute period into a volume of 1, 10, 50 or 300 µL.
Heparin pump	Delivery range : 0.0 to 10.0 mL/hr Bolus range : 0.5 to 10.0 mL Accuracy : ±10% Syringe size : 10,20,30mL
Hydraulic circuit	
Ultrafiltration	Volumetric control UF rate : 0,0.10 to 4.00L/hr Accuracy : ±30g/hr
Dialysate flow rate	Range : 100 to 800 mL/min
Dialysate temperature	Range : 34.0 to 39.0°C

Concentration range	Bicarbonate dialysis
	Water +B : 24 to 70 mmol/L
	Water +A+B : 125 to 165 mmol/L (Na <sup>+</sup> electrolyte concentration)
	Stability : 0.3mS/cm or less
Acetate dialysis	Water +A : 125 to 165 mmol/L (Na <sup>+</sup> electrolyte concentration)
	Stability : 0.3mS/cm or less

Blood leak detector	Optical
Rinse Program	Water rinse Chemical disinfection Chemical decalcification Hot rinse Hot water disinfection Hot citric disinfection IHR

Function
Acetate and Bicarbonate dialysis
Isolated ultra filtration
Single needle with single blood pump
UF profile
Concentration profile
Bicarbonate powder cartridge holder
Leak Detector (1x extracorporeal, 1x hydraulic)
On-Line Kt/V measurement
Clean Treatment Start (CTS)
Dialysate Infusion Function (DIF)

Option
Blood pressure monitoring (BPM)
Blood volume monitor (BVM)
Acetate bag connector nozzle
Front hook for Acetate solution bag
Acetate bag spike nozzle
Central system with 2 solution ports
BPM remote button
Nurse call button
Central alarm output
* ON-LINE HDF/HF, priming/bolus/reinfusion
* Single Needle with Double Pump
* Patient card
* Network
* Bicarbonate nozzle

\*: Factory installed option