

Haemodialysis Machine (Regular Type)-HMD30



Clinical Application:

- Hemodialysis (HD)
- Pure Ultrafiltration (ISO UF)
- Hemoperfusion (HP)
- Plasma Exchange (PE)

Product Features:

- LCD touch screen with high definition(12.1)
- Automation: Self-test, rinse, disinfection, ISO UF, shutdown, etc.
- Automatically start treatment once blood flow sensed.
- Use with dialysis fluid of various formulas (acetate & bicarbonate).
- Single pump: Compatible with blood lines of different diameters.
- Blood pump driving motor is brushless.
- Double needle dialysis.
- Magnetic valves made in Switzerland in application.
- Gear pump imported from Italy and stepper motor from Japan.
- Dialysate flux linearity adjustable (300~500mL/min).
- Unique rotating knob adjust dialysate flux rate, more convenient for operator.
- Na⁺ and UF profile adjustment for patient most comfortable.
- Heparin Bolus with maximum speed up to 7.5ml/min.
- One key START and one key STOP save operator's time by starting all pre-stopped settings in one time.
- Large capacity system log storage.
- In-built battery backup for at least 30 minutes.

Safety Guaranteed:

Audible & visible alarm with warning messages & troubleshooting.

- Blood flow monitoring
- Arterial and Venous pressure monitoring.
- Transmembrane pressure (TMP) monitoring.
- Air Monitoring: Air bubble detector using infrared sensor, Blood level detector using ultrasonic sensor.
- Blood leakage monitoring.
- Water way entirely apart from electric way.
- Dialysate temperature is selectable between 33 and 40°C.
- Conductivity is controllable.
- Sodium and ultrafiltration profiles for various treatment conditions.
- Heparin pump timing for safety and convenience.
- Disinfection: Rinsing, hot disinfection, chemical disinfection;

Double-circulation disinfection system:

Fluid supply loop and return loop are completely separated during disinfection to avoid pollution of the whole machine in case of mis-sucking disinfection liquid. This gives protection from intercross infection.

TECHNICAL SPECIFICATIONS:

General Data:

- Dimensions: 550 x 650 x 1320mm (LxWxH)
- Weight: Appro. 70 Kg
- Water inlet pressure: 0.1~0.5 MPa
- Water inlet temperature: 5~30°C
- Ambient temperature: 10~30°C
- Relative Humidity ≤70%

Extracorporeal Circuit:

- Arterial pressure monitoring:
Display range: -300~+400mm Hg (±10mmHg)
- Venous pressure monitoring:
Display range: -50~+300mm Hg (±10mmHg)
- TMP range: -100~+600mm Hg (±20mmHg)
- Blood pump/Spare pump:
Flow range: 15~340 mL/min (ø 6mm)
20~620 mL/min (ø 8mm)
- Blood level detector: ultrasonic sensor.
- Air bubble detector: infrared sensor.
Threshold of reaction: single air bubble of 200 µl

Electrical Data:

- Power ≤ 2200W
- Frequency: 50Hz
- Voltage: AC220V ±10% (110V optional)

Dialysis Fluid Circuit:

- Dialysate flow range: linearity adjustable 300~500mL/min
- Dialysate temperature range: Selectable 33~40°C
- Dialysate conductivity range: 12~15.5mS/cm (±0.2mS/cm)
- UF flow range: 50~2000mL/hr (±30mL/hr) (±30mL/hr)

Blood leak detector:

Automatically close the blood loop when blood leak ≥1mL per liter dialysate (Flow: 800mL/min)

Disinfection and Cleaning:

- Disinfection: Use citric acid and peracetic acid.
- Hot rinse temperature: 85°C.