



ESD-800 serie

Hemodialysis Machine



BLOOD BANK



Description

ESD-800 series is a hemodialysis system dedicated to Hemodialysis (HD), Hemofiltration (HF), and Hemodiafiltration (HDF) treatments. This new type of system has an elegant design, simple operation, powerful function, and more importantly, is the higher dialysis treatment quality.

- 
Gigantic Touch Screen
 15-inch touch screen provides a perfect visual experience and an easy operation.
- 
Neat and Clean Extracorporeal Circuit
 Neat and well-structured of the extracorporeal circuit achieves the effect of clear indication and easy to clean.
- 
Multi-function Heparin Pump
 Support 5ml, 10ml, 20ml, 30ml, and 50ml syringes. Automatic syringe-type check
- 
High Capacity Battery
 Equip with a 10000mAh battery that can continuously operate up to 30min during power outage
- 
Advanced Therapy Options
 ESD-800 series offers different models to specialize in various therapy options such as, HD, HF, HDF, IUF, Online-HDF, Sequential HD, etc.



Non-invasive blood pressure monitor-BPM
 Commonly, Hypotension and Hypertension might occur during the dialysis treatment, which will lead to multiple complications. BPM can avoid these acute complications and improve the dialysis quality.



Leakage Detection
 Leakage detection that can quickly detect liquid leakage and blood loss, ensuring the safety of the treatment.

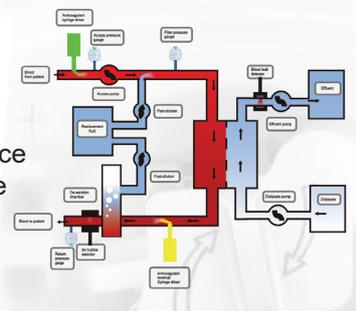


Artery Clamp * & Artery Drip Chamber Holder
 The machine equips the artery clamp and artery drip chamber holder to keep the treatment safe. It avoids the situation that put the patient in danger if the drip chamber falls down or bloodline has knotted.



Dialysis Fluid Filter
 Combining with DF210 dialysis fluid filters, the ESD-800 series can minimize the bacteria, endotoxin, and insoluble particle to implement safe and high-efficient ultrapure dialysis treatment.

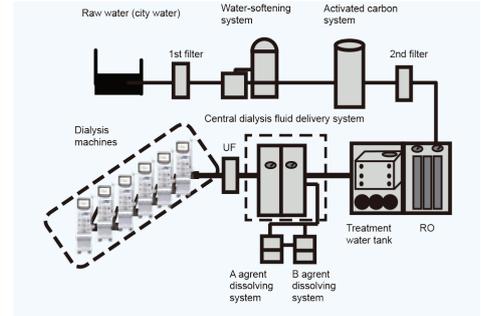
Mixed-dilution
 With two Substitute fluid pumps on ESD-800 Plus, it can implement mixed dilution (pre-dilution and post-dilution at the same time). It improves the clearance rate, lowers the consumption of substitute fluid and anticoagulant, also reduces the cost of treatment relatively





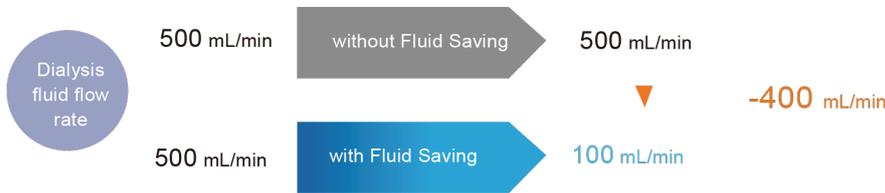
Bi-Cartridge

The cartridge system reduces the time required for both setup the machine and also the time spent clearing up once dialysis has ended. Also, it gives a more hygienic treatment and reduces the risk of contamination



Central Delivery System-CDS A/B

ESD-800 provides the ports to connect to the CDS, which simplifies the maintenance and supervision involved by enabling the combined management of dialysis fluid for multiple persons. It is a cost-effective, laborsaving, time-tested system with good microbial safety



Cost efficient design

Normally, the dialysis fluid should keep running after the self-test and priming of the machine. The dialysis fluid saving function will adjust the flow rate to save the cost and reduce the waste of the dialysate

Technical Specifications

Basic parameters	
Dimension	1610×534×790mm (H×W×D)
Weight Approx.	92kg
Screen	15-inch color touch screen. 270° rotation available

Product configuration (×:optional √:standard)

Model	ESD-800S	ESD-800H	ESD-800Plus
Scope of application	HD, IUF, Sequential Dialysis	HD, IUF, Sequential Dialysis	HD, IUF, Sequential Dialysis
Heparin Pump	√	√	√
Blood pump	1	1	1
Substitution Fluid Pump	0	1	2
Nurse Call	√	√	√
Ultrapure Dialysis	×	√	√
NIBP	×	√	√
SPO2	×	√	√
Bi-cartridge	×	×	√
CDS A/B	×	×	√
Artery Clamp	×	×	√
PBE	×	×	√
IC Card	×	×	×
Leakage Detection	×	×	×



Extracorporeal circulation

Arterial pressure monitoring	
Range	-600mmHg~+600mmHg
Accuracy	±10mmHg
Venous pressure monitoring	
Range	-600mmHg~+600mmHg
Accuracy	±10mmHg
Pressure before entry	
Range	-600mmHg~+600mmHg
Accuracy	±10mmHg
Transmembrane pressure monitoring	
Range	-600mmHg~+600mmHg
Accuracy	±10mmHg
Blood pump	
Applicable line diameters	6mm、8mm
Flow ranges	20~400ml/min (6mm) 20~600ml/min (8mm)
Accuracy	±10mL/min
Replacement fluid pump	
Flow ranges	20~400ml/min (6mm) 20~600ml/min (8mm)
Accuracy	±10mL/min
Air Bubble detection	
Sensitivity	In 200ml/min standard blood flow, the system will raise the sound light alarm, stop the blood pump from running and block the venous bloodline when it detects a single air bubble is no smaller than 200 µl.
Heparin pump	
Flow range	0,0.1~10ml/h
syringe size	5ml、10ml、20ml、30ml、50ml
Heparin initial dose	1.0~20.0ml 1.0~20.0ml adjustable

Dialysate Circulation

Water supply	
Water inlet pressure	0.1MPa~0.6MPa
Water inlet temperature	5°C~30°C
Maximum outlet height	1.2m
Dialysate ratio	
Formula ratio	1)1:1.225:32.775 (Fresenius) 2)1:1.83:34 (Gambro) 3)Customized formula
Bi-cartridge	Support
Ultrafiltration	
Rate	0~4000ml/h
Accuracy	±30mL/h
Leakage detector	
Sensitivity	Under the condition of the maximum ultrafiltration rate and dialysis flow, the maximum alarm limit should be ≤0.35mL/min (HCT of blood is 32%).
Hemodiafiltration	
Substitution rate	20~600ml/min (8mm) 20~400ml/min (6mm)



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