

D800 series Hemodialysis Machine

Leading You to Better Health



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Providing high-efficiency treatment through advanced technologies

D800 series is a hemodialysis system dedicated to Hemodialysis (HD), Hemofiltration (HF), and Hemodiafiltration (HDF) treatments. Under the development of Biolight, 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

D800 series offers different models to specialize in various therapy options such as, HD, HF, HDF, IUF, Online-HDF, Sequential HD, etc.



■ Modern multifunctional design

Hemodialysis Machine-D800 series



Touchable glass screen

Abrasion and corrosion resistance glass ensures the regular operation and disinfectant will not cause any damage to the screen.



Large accessory tray

D800 equips a large size accessory tray on the back of the screen. Accessories like cables, blood pressure cuff, and oximeter can be easily placed and used on it.



270° angle rotation

270-degree screen rotation satisfies different angles of demand. It is convenient for the medical staff to operate the machine and watch the screen from different directions.



360° sound light alarm

Three colors sound light alarm is located on the top of the screen. It will be noticed by the medical personnel no matter on which angle.

D800 series

■ Action in an early stage



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.

Oxygen Saturation Monitor-SpO2*

Oxygen levels will drop 5-23% unnoticeably during dialysis. For the patient with heart and lung problems, monitoring the SpO2 can prevent the cause of unpleasant symptoms.

■ Intelligent data management

Patient Data Management System*

D800 series provides the patient IC card function to document the patients' therapy data via the data management system.

The individualized therapy data can be stored in the patient IC card as an electronic medical record for reviewing the previous treatment.



D800 series

■ Safe and reliable extracorporeal circuit

Dustproof Dialysate Circuit

Dialysate circuit dustproof cover protects the pipeline and dialysate away from contaminating, providing more hygienic and safer dialysis treatment to the patients.



Leakage Detection*

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

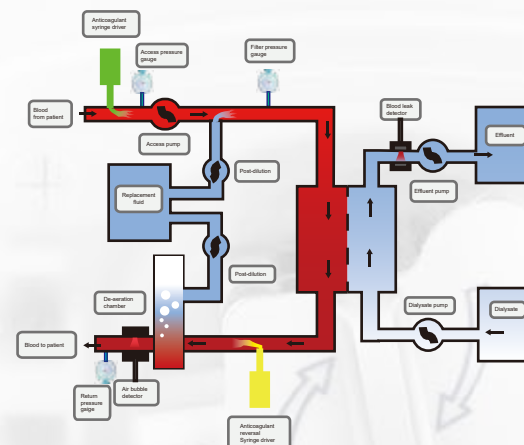
Artery Clamp * & Artery Drip Chamber Holder

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.



Mixed-dilution

With two Substitute fluid pumps on D800 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.



■ Ultrapure dialysis

Dialysis Fluid Filter*

Combining with DF210 dialysis fluid filters, the D800 series can minimize the bacteria, endotoxin, and insoluble particle to implement safe and high-efficient ultrapure dialysis treatment.

Online HDF

D800 series provides the substitute fluid online through the double-stage DF210 dialysis fluid filters. It reduces the usage of saline and achieves safe and high-quality HDF treatment.



■ Various concentrate supply

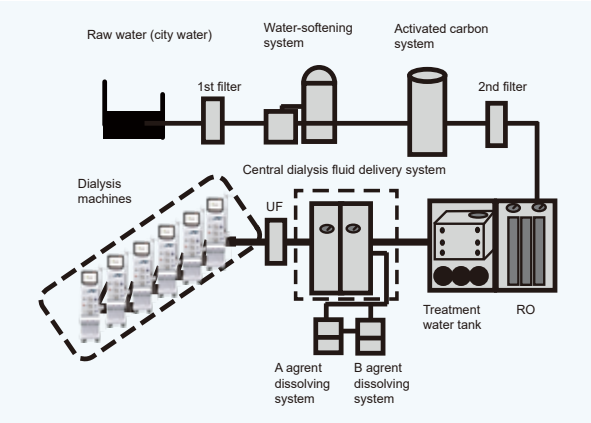


Bi-Cartridge

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.

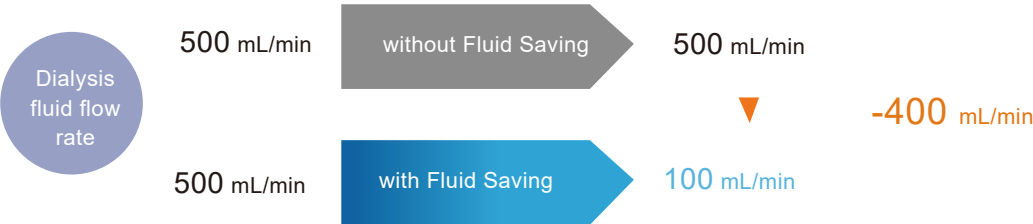
Central Delivery System-CDS A/B

D800 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.



■ Multiple treatment profiles

D800 series provides Na+, UF, Temperature, Heparin, Bicarbonate, and Flow profiles to implement personalized treatment.



■ Sequential Dialysis

D800 has the ability to set the isolated ultrafiltration time before it goes to the dialysis (include UF+Dispersion) treatment. After setting the I-UF time and UF remaining time, the machine can implement the sequential dialysis to treat the patient.



■ Technical Specifications

Basic parameters

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	D800S	D800H	D800Plus
Scope of application	HD, IU, Sequential Dialysis	HF, HD, HDF, IU, sequential Dialysis	HF, HD, HDF, IU, 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	±20mmHg

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 dection	
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 blood-line when it detects a single air bubble is no smaller than 200μl.
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℃ ~ 30℃
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）