



PT. ENDO INDONESIA

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ENDO HDF-2 Hemodialysis Machine



PROVIDING HIGH-EFFICIENCY TREATMENT THROUGH ADVANCED TECHNOLOGIES

ENDO HDF-2 series is a hemodialysis system dedicated to Hemodialysis (HD), Hemofiltration (HF), and Hemodiafiltration (HDF) treatment. These new types of systems have an elegant design, simple operation, powerful function, and more importantly, is higher dialysis treatment quality.



Advanced Therapy Options

ENDO HDF-2 series offers the HD, HF, HDF, IUF, and sequential dilay-sis therapy options.



Multi-function Heparin Pump

Support 5ml, 10ml, 20ml, 30ml, and 50ml syrings. Automatic syringe-type check.



High Capacity Battery

Equip with a 10000mAh battery that can continuously operate up to 30min during power outage.



Leakage Detection *

Quickly detect the liquid leakage and blood loss.

The * means it is optional in some of the models.



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MODERN MULTIFUNCTIONAL DESIGN

Hemodialysis Machine ENDO HDF-2



Touchable glass screen

15-inche touch screen provides a perfect visual experience and an easy operation. Corrosion-resistance glass ensures the disinfectant will not cause any damage to the screen.



Large Accessory tray

ENDO HDF-2 equips a large size accessory tray on the back of the screen. Acces-sories 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.

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 Monior-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.

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.



DUSTPROOF DIALYSATE CIRCUIT

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



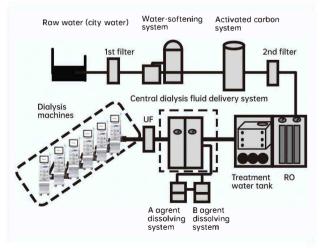
ARTERY CLAMP * & ARTERY CHAMBER HOLDER

The machine equips the artery clamp and artery chamber holder to keep the treatment safe. It aviods the situation that put the patient in danger if the chamber falls down or bloodline has knotted.



CENTRAL DIALYSIS FLUID DELIVERY-CDDS*

CDDS simplifies the maintenance and supervision involved by enabling the combined management of dialysis fluid for multiple persons, preparation of cleaning and antiseptic solutions, and delivery of these to each dialysis machine. It is a cost- effective, laborsaving, time-tested system with good microbial safety.



ULTRAPURE DIALYSIS*

Combining with dialysis fluid filters, the ENDO HDF-2 series can minimize the bacteria, endotoxin, and insoluble particle to implement safe and high-efficient ultrapure dialysis treatment.

ONLINE HDF

ENDO HDF-2 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.



PATIENT DATA MANAGEMENT*

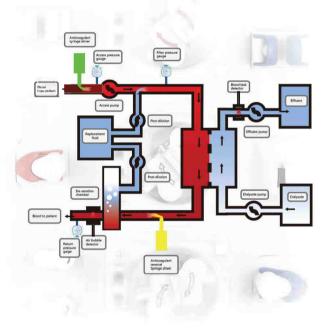
ENDO HDF-2 series provides the patient IC card function to document the patients' therapy data during the treatment.

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



MIXED-DILUTION

With two Substitute fluid pumps on ENDO HDF-2 Plus, it can implement mixed dilution (pre-dilution and post-dilution at the same time). It combines the advantages of pre-dilution and post- dilution, improvng the dearance rate, lower the consumption of substitute fluid and anticoagulant, also reducing the cost of treatment relatively.



COST EFFICIENT DESIGN

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



MULTIPLE TREATMENT PROFILES

ENDO HDF-2 series provides Na+, UF, Temperature, Heparin, Bicarbonate, and Flow profiles to imple-ment personalized treatment.



SEQUENTIAL DIALYSIS

ENDO HDF-2 has the ability to set the isolated ultrafiltration time before it goes to the dialysis (include UF+Dispersion) treatment. After setting the I-UF timeand 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-inche color touch screen. 270° rotation available			

Product configuration

Model	ENDO HDF-2	ENDO HDF-2	ENDO HDF-2
Scope of application	HD, IUF, Sequential Dialysis	HF, HD, HDF, IUF, sequential Dialysis	HF, HD, HDF, IUF, sequential Dialysis
Heparin Pump	\checkmark	\checkmark	\checkmark
Blood pump	1	1	1
Subtitution Fluid Pump	0	1	2
Leakage Detection	Optional	Optional	Standard
Ultrapure Dialysis	Optional	Standard	Standard
NIBP	Optional	Standard	Standard
SPO2	Optional	Standard	Standard
Bi-cartridge	Standard	Standard	Standard
CDDS	Optional	Optional	Standard
Artery Clamp	Optional	Optional	Standard
IC Card	Optional	Standard	Standard
PBE	Optional	Optional	Standard

Extracorporeal circulation

Arterial pressure monitoring				
Range	-600mmHg ~ +600mmHg			
Accuracy	±10mmHg			
Venous pressure monitoring				
Range	-600mmHg ~ +600mmHg			
Accuracy	±10mmHg			
Dialyzer inlet blood pressure monitoring				
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 (6			
Accuracy	±10mL/min			
Replacement fluid pump				
Flow ranges	20~400ml/min (6			
Accuracy	±10mL/min			
Air Bubble dectection				
Sensitivity	In 200ml/min star the sound light a and block the ver air bubble is no s			
Heparin pump				
Flow range	0,0.1~10ml/h			
syringe size	5ml、10ml、20ml			
Heparin initial dose	1.0~20.0ml 1.0~2			

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 2)1:1.83:34 (Gam 3)Custom formul
Bi-cartridge	Support
Ultrafiltration	
Rate	0~4000ml/h
Accuracy	±30mL/h
Leakage detector	
Sensitivity	Under the condit rate and dialysis should be ≤0.35
Hemodiafiltration	
Replacement rate	20~600ml/min (

6mm) 20~600ml/min (8mm)

(6mm) 20~600ml/min (8mm)

andard blood flow, the system will raise alarm, stop the blood pump from running enous bloodline when it detects a single smaller than 200µl.

l、30ml、50ml

20.0ml adjustable

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tion of the maximum ultrafiltration s flow, the maximum alarm limit 5mL/min (HCT of blood is 32%).

(8mm) 20~400ml/min (6mm)