



DORA-6000 Hemodialysis Machine



What are the
main functions
of Hemodialysis
machine?

Produce & Supply clean, standard dialysate.
stable conductivity, temperature, etc.

Remove water from blood.
precise control of UF

Monitor the treatment status.
flow rate, pressure, temperature, BP, etc.



01 Introduction

02 Operation

03 Highlights

04 Maintenance

The Background

- Over 10 years of R&D history.
- Upgraded over 3 generations.
- R&D team combined by Chinese & Japanese engineers.
- Clinical trial starts on 2019.



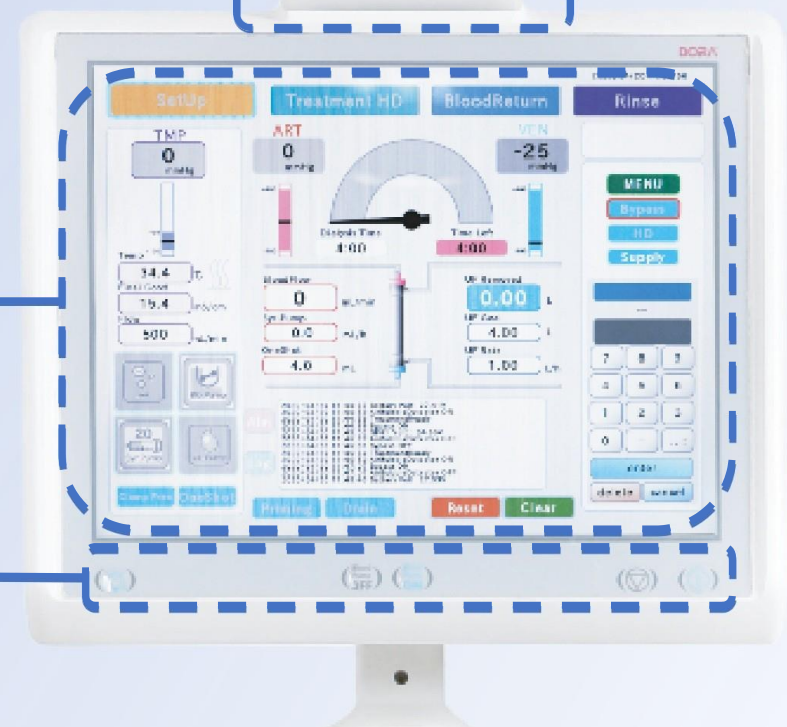
The Structure

Saline holder

Alarm light

Display & Control center

Function keys



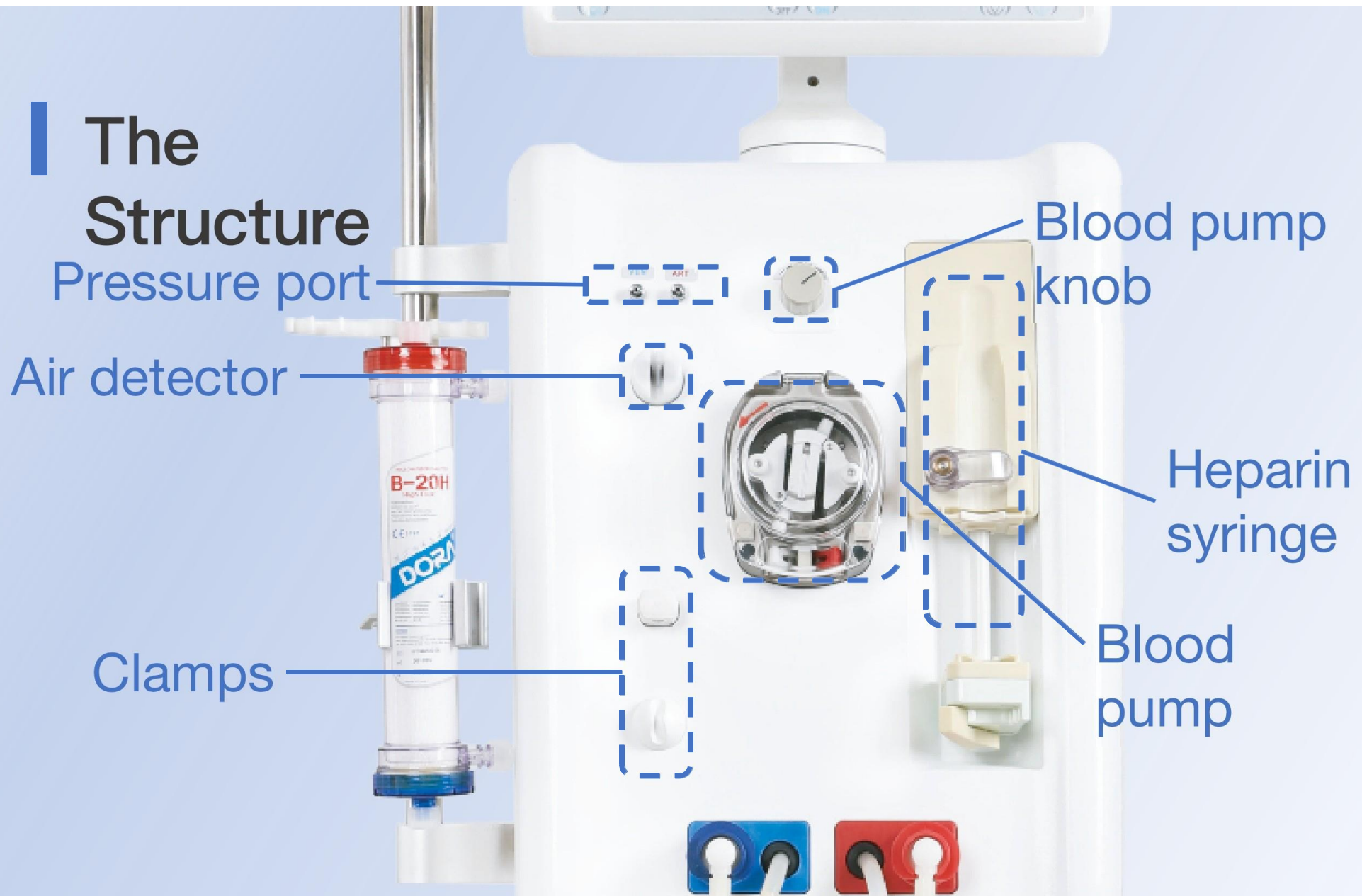
Air detector

Clamps

Blood pump knob

Heparin syringe

Blood pump

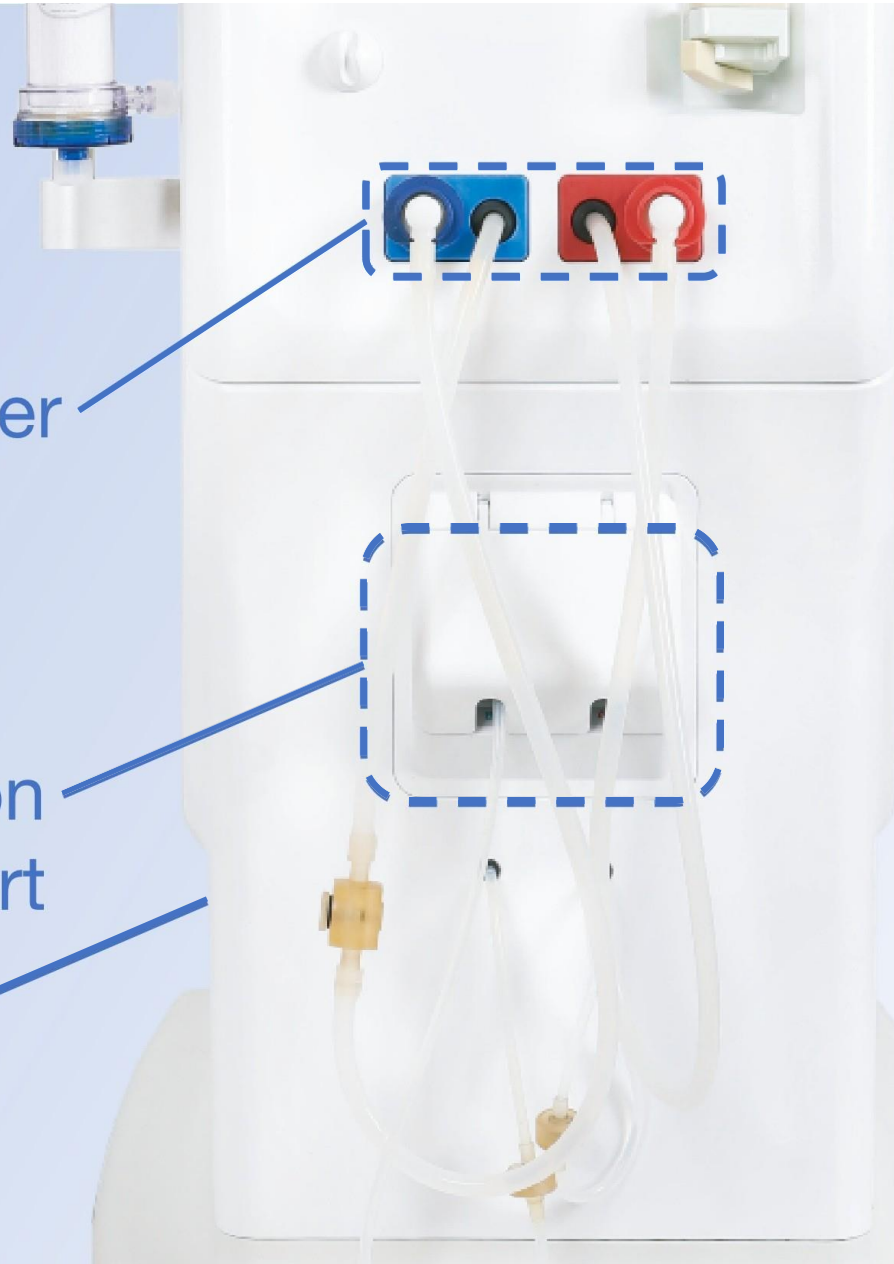


The Structure

Dialyzer coupler

A/B absorption
port

Endotoxin filter



Specs	FMC4008S	DORA-6000
RO water	1.5~6bar	1~3bar
Blood flow	15~600mL/min	0; 30~600mL/min
Dialysate flow	300 – 500 – 800 mL/min	300~800mL/min (1mL/min steps)
Dialysate Temp.	35°C~39°C	33°C~39°C
VEN	-60~520mmHg; Accuracy: ±10mmHg; Resolution: 20mmHg	-400~400mmHg; Accuracy: ±10mmHg; Resolution: 1mmHg
ART	-300~280mmHg; Accuracy: ±10mmHg; Resolution: 20mmHg	-400~400mmHg; Accuracy: ±10mmHg; Resolution: 1mmHg
TMP	-60~520mmHg; Accuracy: ±10mmHg; Resolution: 20mmHg	-100~500mmHg; Accuracy: ±10mmHg; Resolution: 1mmHg
Syringe pump	0~10mL/h	0; 0.3~10mL/h
Syringe size	20mL	10mL / 20mL / 30mL
UF rate	0~4000mL/h; Accuracy: ±1%	0~3600mL/h; Accuracy: ±1%
Conductivity	Range: 12.8–15.7mS/cm; Accuracy: ±0.1mS/cm	Range: 0~16mS/cm; Accuracy: ±0.1mS/cm; Conductivity feedback control
Blood leak	≤0.5mL/min (Dialysate flow 800mL/min)	≤0.35mL/min (HCT=32%)
Air detector	Optical Venous drip chamber level monitor	Single air bubble ≥ 200uL;
Disinfection	Chemical disinfection; Heat chemical disinfection(84°C); Heat Rinse(84°C)	Rinse; Disinfection; Acetic acid rinse; Peracetic acid rinse; Heat citric acid rinse (top temp. 85°C); Heat rinse (top temp.85°C)



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4 Main Functions

Self-check

Hemodialysis
treatment

Blood auto return

Rinse & disinfection



4 Main Functions

Self-check

Hemodialysis treatment

Blood auto return

Rinse & disinfection



4 Main Functions

Self-check

Hemodialysis treatment

Blood auto return

Rinse & disinfection



4 Main Functions

Self-check

Hemodialysis treatment

Blood auto return

Rinse & disinfection

2022/12/29 17:28:36 100%

SetUp Treatment HD BloodReturn Rinse

Start Time :
Finish Time :
Time Left

75 Min

Water Rinse
Acetic Acid
Hot Rinse

Peracetic Acid
Disinfection
Heat Acid

Pre-Rinse Time 15 min
↓
Disinfection 20 min
↓
Stay Time 20 min
↓
Subsequent Rinse Time 20 min

Menu Bypass
I-UF Supply

~

×

1 2 3
4 5 6
7 8 9
0

Input Cancel

Alarm

Log

Priming

Blood Flow mL/min
PrimingLeft mL

Reset Delete

Check logs

Alarms, rinse records, will all be recorded and accessed by 1-click.

Log

2023/01/04 08:55:21 100%

Alarm

Log

Setting

Rinse Set

Data

Kt/V

Close

Offline

Rinse Record 88% Prev 100 Next 100

Rinse Mode	Start Time	End Time	Rinse Time
Heat Acid	2022/08/19 17:30	2022/08/19 18:35	1h : 5m
Heat Acid	2022/08/19 17:30	2022/08/19 18:35	1h : 5m
Heat Acid	2022/08/19 17:30	2022/08/19 18:35	1h : 5m
Heat Acid	2022/08/19 17:30	2022/08/19 18:35	1h : 5m
Heat Acid	2022/08/19 17:30	2022/08/19 18:35	1h : 5m
Heat Acid	2022/08/19 17:30	2022/08/19 18:35	1h : 5m
Heat Acid	2022/08/19 17:30	2022/08/19 18:35	1h : 5m
Heat Acid	2022/08/19 17:30	2022/08/19 18:35	1h : 5m
Heat Acid	2022/08/19 17:30	2022/08/19 18:35	1h : 5m
Heat Acid	2022/08/19 17:30	2022/08/19 18:35	1h : 5m
Heat Acid	2022/08/19 17:30	2022/08/19 18:35	1h : 5m
Heat Acid	2022/08/19 17:30	2022/08/19 18:35	1h : 5m
Heat Acid	2022/08/19 17:30	2022/08/19 18:35	1h : 5m
Heat Acid	2022/08/19 17:30	2022/08/19 18:35	1h : 5m
热水柠檬酸洗111	2022/08/19 17:30	2022/08/19 18:35	1h : 5m

Menu Bypass

I-UF Supply

~

x

1 2 3

4 5 6

7 8 9

0

Input Cancel

Menu settings

Customizing alarms,
dialysate conductivity,
dialysate ratio, etc

Setting

2023/01/04 09:17:59 100%

Alarm

Log

Setting

Rinse Set

Data

Kt/V

Close

Offline

Dialysate

Press Alarm

Air Detector

Device Setting

Compensate

Curve

Syringe Set

Language

TotalNa+SetVal140.00 mmol/L

TotalHCO3-SetVal25.00 mmol/L

Conductivity14.42 mS/cm

☐ Custom Ratio

☒ Fixed Ratio

Menu

Bypass

I-UF

Supply

~

×

123

456

789

0

Input

Cancel

Prev

Next

Profiling

Customized treatment will be available as a standard function.

2022/11/24 09:07:38 - 100%

Setting

Alarm

Log

Setting

Rinse Set

Data

Kt/V

Close

Offline

Dialysate

Press Alarm

Air Detector

Device Setting

Compensate

Curve

Syringe Set

Language

Sodium

		1	2	3	4	5	6
U	—	✓	✓	✓	✓	✓	✓
F 1	—	✓	✓				
C 2	—	✓	✓				
u 3	—	✓		✓			
r 4	—	✓			✓		
v 5	—	✓				✓	
e 6	—	✓					✓

OK

Prev

Next

Menu

Bypass

I-UF

Supply

~

×

1

2

3

4

5

6

7

8

9

0

Input

Cancel



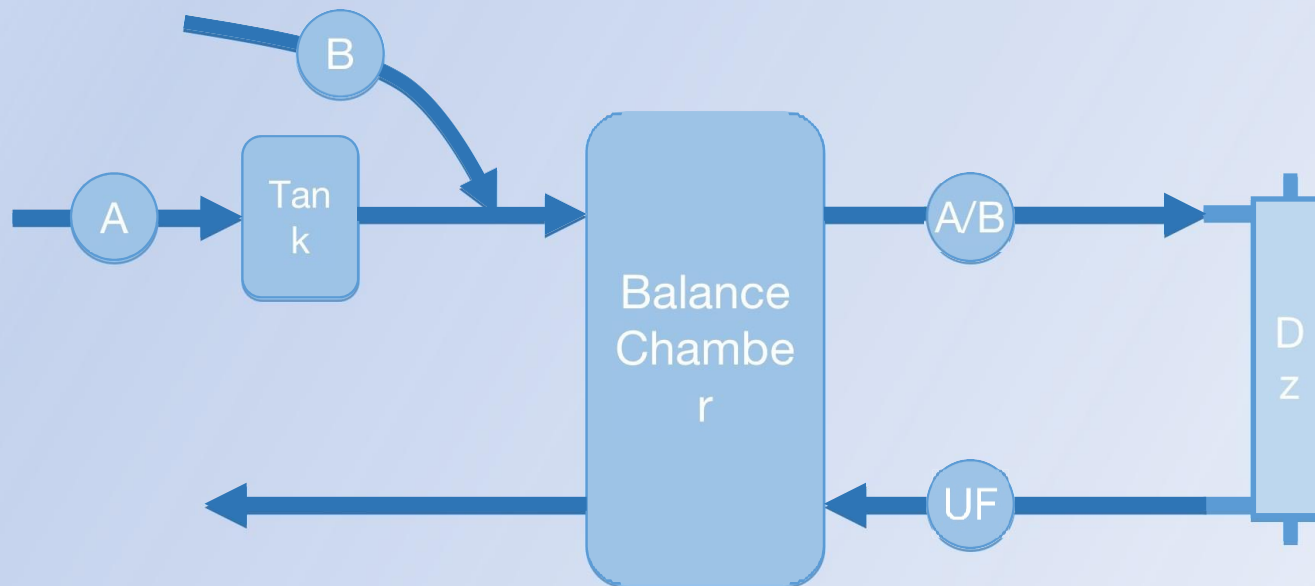
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The Hydraulic design



- A/B two pumps absorb concentrate independently;
- Ceramic pump accurately controls the UF rate.

Other highlights

Key components imported from Japan

Backup battery

Heat exchanger

Closed circuit disinfection



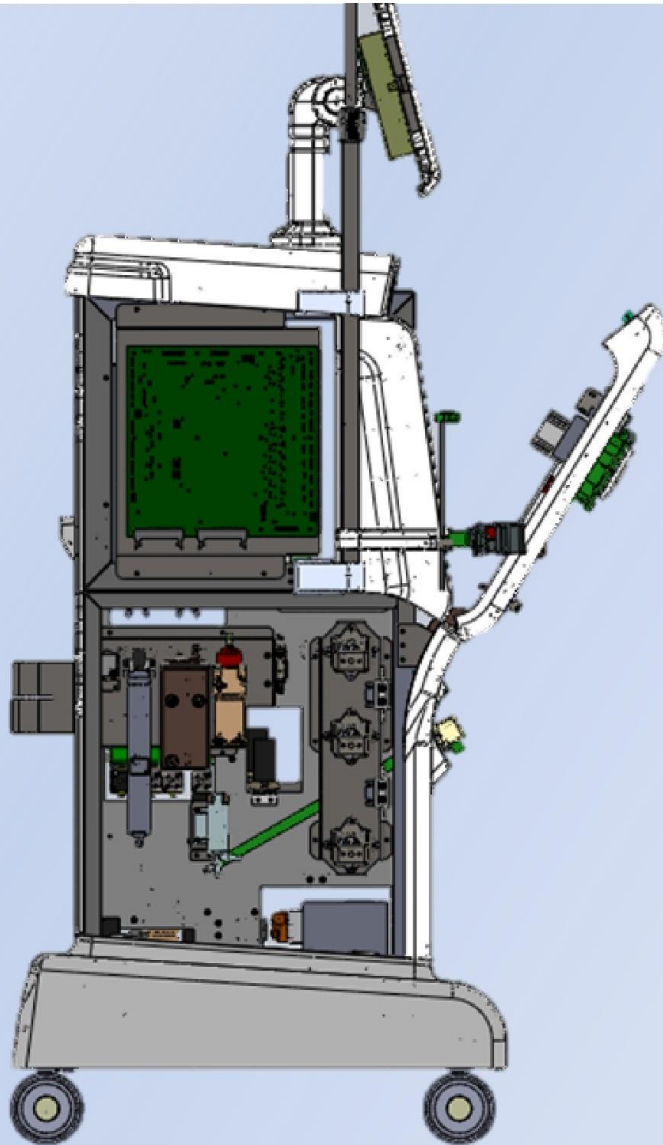


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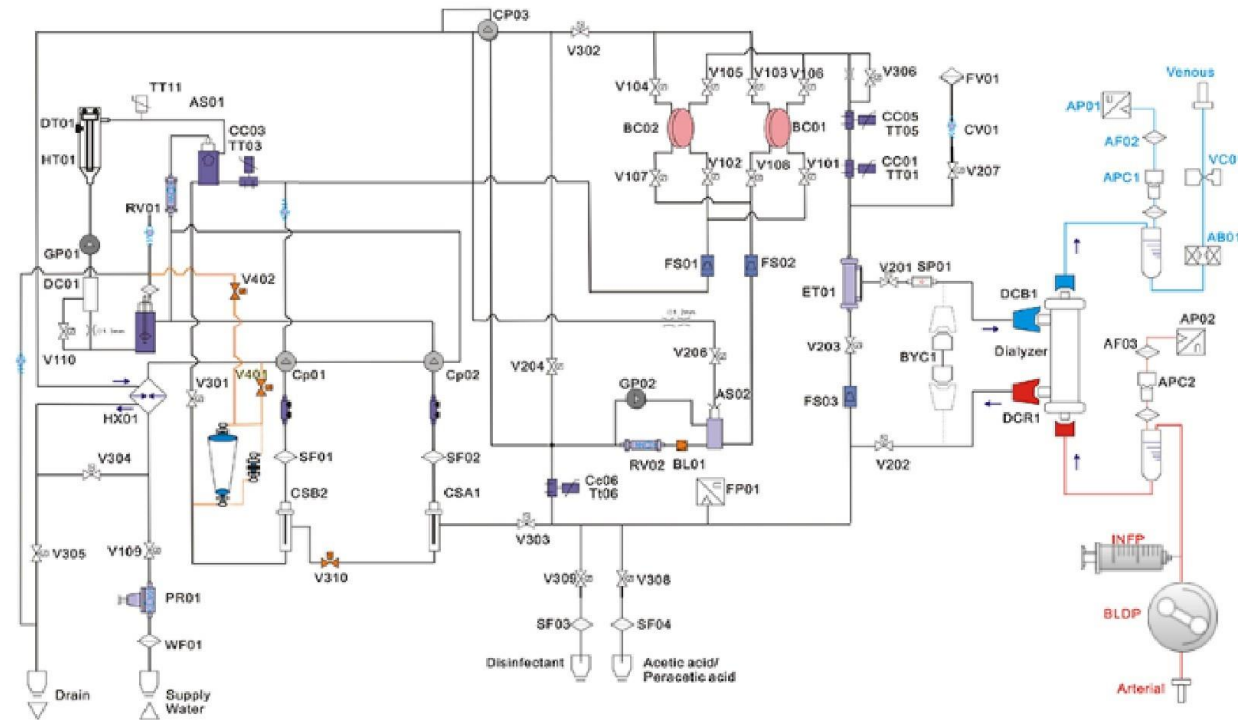
Electric & hydraulic separated;

Cabinet can be opened in 3 ways;

Large space for maintenance.

泵测试

返回



Real-time monitor and control of each valve.

THANK YOU