FULCARE

Dialysis RO Water Plant

CJ-RO Ⅱ

System Composition

Multi-media filter: Equipped with automatic flush control valve, its functions: to reduce water turbidity, remove iron, manganese and other impurities.

Activated carbon filter: Equipped with automatic flush control valve, its functions: to absorb residual chlorine and organics.

Softener: Equipped with automatic regeneration controller and salt box, the functions: to remove calcium and magnesium ions, and reduce water hardness and so on.

Precision filter: To precisely treat the impurities in water, carry out deep filtration, and improve RO membrane water quality.

Two-stage reverse osmosis system: Double RO treatment, no-dead-space patented technology, effectively remove ions and bacteria in water.

Water supply system: The water supply method of constant pressure, airtight, direct supply and large cycle is implemented.

All components are produced by well-known companies in Germany, the United States, Japan, Denmark, etc. They can all operate stably and efficiently.

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Standard Performance

The raw water booster pump is equipped with a flow sensor smart system that can maintain pressure stability at different flow rates.

The pre-processing system is featured by automatic flushing and regeneration at night to prevent microbial growth.

Technologies of programmable PLC control, automatic operation, automatic startup and shutdown at specified time, and timed automatic flushing are all used.

16 million colors of high-saturation LCD touch screen with English operation interface, featuring the perfect display of each component running state and saving of the operation data record.

Complete protection functions are provided. In case of abnormal low pressure water shortage, high pressure protection, power phase sequence and phase absence, it can implement self-locking protection and send alarm.

On-line monitoring of raw water, primary and secondary water quality, pressure, and flow rate, and alarm function of poor water quality.

The self-check and troubleshooting functions and various emergency plans ensure the normal operation of the equipment.

The standard chemical disinfection system has an audible alarm, online display of disinfection, cleaning time, and verification of the integrity of the disinfection operation, ensuring the safety of dialysis.

In case of failure of the two-way water supply mode, it automatically switches to another level of water production or water supply, realizing continuous dialysis.

Caster of stainless steel frame, cartridge structure, and multi-directional design.
The equipment can be used compatibly with any domestic and foreign brands of dialysis machines.

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Optional Functions

The raw water booster pumps are provided for operation and standby with additional constant pressure variable frequency intelligent system.

Online monitoring system of total chlorine and hardness, digital processing and saving and limit alarm functions.

The pressure, flow rate, and water quality are displayed on the LCD screen in a digital form and are sampled and saved at regular intervals.

The built-in thermal-sensitive printer automatically prints water quality and system parameter records, requiring no manual filling of the records, and it can automatically print disinfecting records after disinfection.

One-button thermal disinfection: patented thermal disinfection device, featuring safe and efficient, energy saving and environmentally-friendly.

Sanitary heat disinfectant reverse osmosis membrane, high desalination rate, high flux, thermal disinfection and filtration without dead corners, safe and reliable.

The big cycle + small cycle dead-zone-free water supply mode with imported PE Xa sterile tube supports chemical and thermal disinfection.

The computer remotely monitors the running status of the system, updates the data online, and operates the system in the required places, such as offices and nurses' stations.

Mobile tablet smart APP control system accesses to and manages the system at anytime and anywhere, realizing wireless remote control and data cloud storage.

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Technical Parameters

Produced water quality: in compliance with the YY0572 industrial mandatory standards and the United States AAMI/ASAIO hemodialysis water standards.

Endotoxin, and bacterial removal rate: ⩾ 99.9%; system emptying rate: ⩾ 99% no dead space.

Water inlet requirements: the water quality complies with Sanitary Standards for Drinking Water (GB5749), and the pressure: 0.15Mpa~0.4Mpa;

Water supply: at least 2 times the designed treatment water volume; inlet water temperature: 5~35°C.

Power supply voltage: AC380V, three-phase five-wire system, reliable grounding; power frequency: 50Hz.

Ambient temperature: 5 ~ 40 °C, and atmospheric pressure: 70KPa ~ 106KPa.

Relative humidity: ⩽80%, no strong acid, strong alkali or other volatile gases, no strong electromagnetic interference.

Maximum operating pressure: ⩽ 1.50Mpa; operating pressure: 0.8-1.35Mpa.

Site installation requirements: The ground is provided with a waterproof layer and a floor drain, keeping the drainage unobstructed.

Product Specifications

Model	Water production volume (25°C)	Operating pressure (MPa)	Voltage (V) power (KVA)	Applicable bed number	Dimensions of main unit (mm)
CJ-ROⅡ-600A	≥600	0.8~1.35	380/4.5	8-15	1400×750×1600
CJ-ROⅡ-1000A	≥1000		380/5.5	15-20	1650×780×1600
CJ-ROⅡ-1500A	≥1500		380/8.0	30-35	1500×850×1600
CJ-ROⅡ-2500A	≥2500		380/10.0	35-50	1700×900×1600
CJ-ROⅡ-3000A	≥3000		380/12.5	50-75	2000×900×1600
CJ-ROⅡ-4000A	≥4000		380/15.0	75-100	2300×900×1600
CJ-ROⅡ-6000A	≥6000		380/20.0	100-150	2500x1100×1600
CJ-ROⅡ-10000B	≥10000		380/30.0	150-250	2800×1100×1600

Note: “A” indicates direct water supply mode and “B” indirect water supply mode.

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Spare parts

1

The full-automatic constant pressure variable frequency control system of raw water booster pump can maintain the pressure stability at different flow rates.

2

The built-in raw water on-line total chlorine detection system is equipped with magnetic instrument of high reliability and high precision for the detection and recording of total chlorine.

3

The built-in hardness on-line detection system is equipped with magnetic instrument of high reliability and high precision for the detection and recording of raw water hardness.

4

The big cycle + small cycle dead-zone-free water supply mode with imported PE-Xa sterile tube supports chemical and thermal disinfection.

5

The built-in thermal printer automatically print water quality and record system parameters, requiring no manual filling of the records, and it will automatically print disinfecting records after disinfection.

6

The computer remotely monitors the running status of the system, updates the data online, and operates the system in the required places, such as offices and nurses' stations.

7

Mobile tablet smart APP control system accesses to and manages the system at anytime and anywhere, realizing wireless remote control and data cloud storage.

8

Chunjie also established a remote monitoring system, which can constantly monitor the water quality changes and troubleshooting of the remote water production equipment for hematodialysis and provide better professional services for customers.

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