



# ES-AQUA Serie

Water Treatment System



**HEMODIALYSIS**



## Description

### Application

it is suitable to supply water for the devices in the place such as supply room, operating room and pharmaceutical factory which need special water including pressure steam sterilizer, ultrasonic cleaning machine, automatic cleaning machine and cleaning tank.

### Technology advantage

- PLC control system is used, with a reliable performance, powerful function and convenient operation.
- Reverse osmosis system automatically flushes reverse osmosis membrane with a low pressure when startup, flushes for reverse RO membrane when shutdown.
- Reverse osmosis system automatically flushes reverse osmosis membrane for 3-5mins with a low pressure after a 2h continuous running and flushes the accumulated concentrated precipitates which locate in RO membrane concentrated water under low-pressure, high velocity and a large quantity of water, which can prevent precipitation, accumulated scaling and play a key role in prolonging RO membrane service life.
- Reverse osmosis system automatically replace concentrated water for RO membrane when shutdown. RO water production replace concentrated water locating in RO membrane side in order to make RO membrane soak into RO water production when shutdown, which can soak the scale from RO membrane, prevent concentrated water from precipitated scaling on RO membrane when shutdown and play a key role in prolonging RO membrane service life.
- In order to ensure system advancement and reliability, the core components in the system including high pressure pump, RO membrane, pressure protection switch, electric element adopt imported parts. Other accessory equipment in the system adopt domestic famous brand, which improve system practicality.
- set 'manual/automatic' running state, either automatic operation or manually operation.
- Fully consideration of the selection and quantity of RO membrane as well as the selection of high pressure pump in the system ensure water production and product water quality after 3 years.

### Safety feature

- Product water on-line monitoring device installed that can detect whenever it need and show the system operation status as well as operation state to make sure that system product water quality meet the design
- The protection of various liquid level and pressure make sure that equipment operation is safety and stable.
- Automatic control is used by primary water tank. The influent will automatically stop when primary water tank is in a high liquid level and inlet valve will automatically open when primary water tank arrive at a low liquid level.
- Low liquid-level protection switch is set in primary water tank, which can prevent primary pump from running under water shortage.
- Low pressure protection switch is set in front of high pressure pump, which can prevent high pressure pump from running under water shortage.

## Technical Configuration

Type	ES-AQUA-300	ES-AQUA-500	ES-AQUA-1000	ES-AQUA-1500
Water production per hour	300L	500L	1000L	1500L
Storage space demanded	3000x5000mm	3000x5000mm	3000x5000mm	3000x5000mm
Operation weight (full of water)	2500KG	3000KG	3500KG	4000KG
Supply voltage	380V	380V	380V	380V
Power	2KW	2KW	2,5KW	3KW

Source water	municipal tap water
Source water temperature	5°C~40°C
Source water pressure	0.3-0.35MPa
Treatment method of equipment	Single stage reverse osmosis treatment
Conductivity	≤15us/cm
Desalination rate of whole machine	> 98%
Removal rate of ion	96%



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