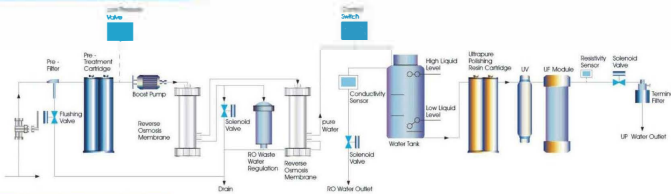


ZYDC

2 stage RO system ultra pure water system



flow Schematic



Specifications

Model	ZYDC-I	ZYDC-II	ZYDC-III	ZYDC-IV
Optional capacity(L/H)	10L/H,20L/H			
Flowrate	Up to 1.5- 2.0 liters/minute(with pressure tank)			
Feedwater requirements	Tap water, temperature:5-45°C,pressure:1.0-5.0Kg			
RO water quality				
Conductivity - 1st stage RO water	<Feed water conductivity*2%			
Conductivity - 2nd stage RO water	1.5µs/cm			
Ultrapure water quality				
Resistivity(25°C)	18.25MQ.cm			
Bacteria	<1cfu/ml			
Particle(>0.1µm)	<1/ml			
Heavy metal ion	<0.1ppb			
Endotoxin(Pf Rodgers)	N/A	N/A	N/A	≤ 0.01EU/ml
TOC Level***	< 20 ppb	< 20 ppb	< 10 ppb	< 10 ppb
Dimension and weight	Length*Width*Height 530*380*560mm, 35-40Kg			
Electrical requirements	AC110-240V, 50/60Hz			
Power(W)	30W-50W			
Terminal disinfection filter (TF)	N/A	yes	yes	yes
UV lamp	N/A	N/A	yes	yes
UF	N/A	N/A	N/A	yes
Standard configuration	Main body (including 1 set of cartridge)+pressure tank			



Features and Advantages

- Double stage reverse osmosis technology, assure 2nd RO water quality's stability from different source water.
- 2 door and easy-to-replacing cartridge design, convenient to maintain system and replace cartridges.
- LCD controlling system, intuitively display the system running state and various parameters.
- 2 way online water quality sensor, detect the quality of feed water, 2nd RO water, and ultrapure water respectively.
And warn once water quality's standard exceeding.
- Cartridges replacing alarm function, based on time and water quality, show cartridges' used and residual life.
- Multiple alarm function: no feed water, full water, water quality's standard exceeding, and cartridge life ending.
- Auto self-flushing of RO membrane function, extend RO membrane's life.
- System sanitizing procedure, achieve the disinfection of ultrapure water's tube and valve.
- External water tanks is optional to meet different need and assure ample water-supply.
- Whole plastic shell with high-strength, avoid rusting and keep clean, to meet GLP standard.
- Tube and adapter with NSF authorization and top quality, reduce TOC level and assure ultrapure water's quality.
- Optimized pretreatment (including PP fiber, active carbon cartridge), effectively protect RO membrane.
- RO module with DOW's membrane, ensure long life, stable operation and high desalination rate.
- Ultrapure cartridge with DOW's top polishing resin, ensure ultrapure water's quality up to 18.2 MΩ .cm, with the lowest TOC level.
- Double wavelength (185&254nm) ultraviolet lamp module, restrain bacteria's increase and reduce TOC.

Typical Scientific Applications

- ICP-MS(Inductively Coupled Plasma Mass Spectrometry)
- HPLC
- IC(Ion Chromatography)
- AES(Atomic Emission Spectrometry)
- AAS(Atomic Absorption Spectrophotometry) Buffer and media preparation Electrophysiology
- Plant tissue culture
- Qualitative analysis
- Animal watering
- Aquariums
- Autoclave feed
- Feed to ultrapure water system
- Glassware Washing/rinsing
- Qualitative analyses Ultra trace analysis Western blotting
- biochemical analysis of chemical reagents;
- buffer conventional physical and chemical detection;
- Washing machines