

ZYC ultra pure water system



Comprehensive monitoring system
-LCD display
-1 or 2 water quality sensor.



Ultra-Purification Cartridge
- Adoption of high quality nuclear grade resin, US DOW and Rohm Resin
- Polishing cartridge removes ionic and organic contaminants below trace levels



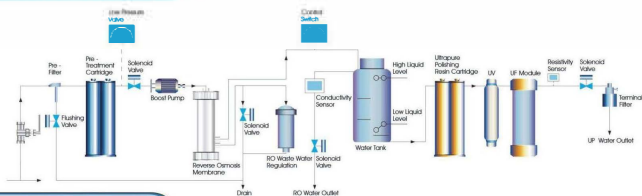
High-Strength UV lamp
- Dual wavelength UV lamp 185/254nm ensures organic molecule oxidation and bacteria destruction
- Held in a robust and corrosion-resistant stainless steel housing

Terminal Filter

-0.22um membrane filter farthest eliminates contaminants that might interfere with specific application at dispensing point, applicable for HPLC, GC etc.



flow Schematic



Specifications

Model	ZYC-I	ZYC-II	ZYC-III	ZYC-IV
Optional capacity(L/H)	10L/H,20L/H			
Flow rate	Up to 1.5- 2.0 liters/minute(with pressure tank)			
Feed water requirements	Tap water, temperature:5-45°C,pressure:1.0-5.0Kg			
RO water quality				
Conductivity(25°C)	2-10µs/cm			
Ion rejection rate	99% (new RO membrane)			
Organic rejection rate	>99%			
Particles and bacteria rejection rate	>99%			
Ultrapure water quality				
Resistivity(25°C)	18 25MΩ cm			
Bacteria	< 1cfu/ml			
Particle(>0.1µm)	< 1/ml			
Heavy metal ion	<0.1ppb			
Endotoxin(Pyrogens)	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

- ZYC series is the sole leading brand of Chinese Good Instrument in lab water area.
- It is the most representative products in Chinese lab water market.
- 2 way online water quality sensor, RO water, deionized water, or ultrapure water respectively.
- 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.
- Water dispensing function- timing and quality (time range: 1-99min, water quality range: 0.1-18.2MΩ .cm).
- 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.
- 2 door and easy-to-replacing cartridge design, convenient to maintain system and replace cartridges.
- Tube and adapter with NSF authorization and top quality, reduce TOC level and assure ultrapure water's quality.
- Optimized pretreatment (including PP fiber, KDF and active carbon cartridge), effectively protect RO membrane.
- RO module with DOW's membrane, ensure long life, stable operation and high desalination rate.
- 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.
- MWCO 5000D ultrafiltration module, effectively eliminate endotoxin, and suitable for precise cell cultivating and IVF.

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
- Mammalian and bacterial cell culture
- Plant tissue culture
- Qualitative analysis
- Animal watering
- Aquariums
- Autoclave feed
- Feed to ultrapure water system
- Glassware Washing/rinsing
- Mammalian and bacterial cell culture Northern and Southern blotting PCR(Polymerase chain reaction) Plant tissue culture
- Qualitative analyses Ultra trace analysis Western blotting
- biochemical analysis of chemical reagents;
- buffer conventional physical and chemical detection;
- Washing machines