

ZYP

ultra pure water system



Careful touch screen
 - Human-machine interface
 - One button disinfection
 - 3 water quality sensor
 History data inquiry



Ultra-Purification Cartridge
 - Adoption of high quality rooster grade resin, SD-DOW and Fluore Fluor
 - Pre-filtering cartridge removes solids and organic contaminants below trace levels

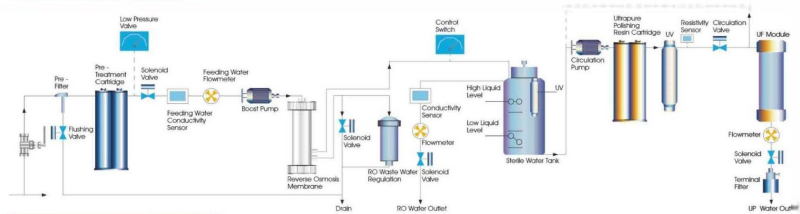


Hollow fiber ultrafiltration
 filter design, 2000 molecular weight of 5000 Daltons, removal bacteria, endotoxin and fine particles to meet the user requirements for ultra-low recombination water.



High strength UV lamp
 Dual wavelength UV lamp 180/254nm, removes organic molecules oxidation and bacteria destruction. Held in a robust and corrosion-resistant stainless steel housing.

flow Schematic



Specifications

Model	ZYP-I	ZYP-II
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)	<1-5µs/cm	
Ion rejection rate	99% (new RO membrane)	
Organic rejection rate	>99%	
Particles and bacteria rejection rate	>99%	
Ultrapure water quality		
Resistivity(25°C)	18.25MQ.cm	
Bacteria	<0.1cfu/ml	<0.1cfu/ml
Particle(>0.1µm)	N/A	<1/ml
Heavy metal ion	<0.1ppb	
Endotoxin(Pyrogens)	N/A	≤ 0.001EU/ml
TOC Level***	< 3 ppb	< 3 ppb
RAases	N/A	<0.01ng/ml
DNases	N/A	<5pg/ml
Dimension and weight	Length×Width×Height:530×380×550mm, 35~40Kg	
Electrical requirements	AC110-240V, 50/60Hz	
Power(W)	30W-50W	
Terminal disinfection filter (TF)	yes	yes
UV lamp	yes	yes
UF	N/A	yes
Standard configuration	Main body (Including 1 set of cartridge)+pressure tank	



Features and Advantages

- Colorful high-resolution touch screen controlling system, achieve finger-touch new experience.
- 3 way online water quality sensor, detect the quality of feed water, RO water, and ultrapure water respectively. And warn once water quality's standard exceeding.
- Built-in 2 pump- RO pump and circulating sanitizing pump.
- All Cartridges replacing alarm function, based on time, flux and water quality, show cartridges' used and residual life.
- Multiple alarm function: no feed water, full water, water quality's standard exceeding, cartridge life ending and leakage.
- Auto self-flushing of RO membrane function (interval and continuous time setting), extend RO membrane's life.
- Auto running data storing function with built-in SD card, and data can be exported through the USB interface.
- Built-in perpetual calendar clock for cartridges and service setting.
- System sanitizing procedure, achieve the disinfection of ultrapure water's tube and valve.
- System circulation function, achieve ultrapure water's circulation to keep top quality of ultrapure water.
- Level II password, protect all the parameters setting, and prohibit any unauthorized setting change.
- The system can be fit with a 30 liter conical-bottomed PE tank with a liquid level sensor and a tank vent filter with CO2 scavenger to prevent pure water from contamination by the surrounding air.
- 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.
- RO module with DOW's membrane, ensure long life, stable operation and high desalinization 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.
- Terminal disinfection filter, assure that terminal pure water is absolutely axenic.

Typical Scientific Applications

- ICP-MS(Inductively Coupled Plasma Mass Spectrometry)
- Molecular biology techniques
- Ultra trace analysis
- Electrochemistry
- Electrophoresis
- GFAAS(Graphite Furnace Atomic Absorption Spectrophotometry)
- HPLC
- IC(Ion Chromatography)
- ICP-AES(Inductively Coupled Plasma Atomic Emission Spectrometry)
- Mammalian and bacterial cell culture
- Molecular biology
- Plant tissue culture
- Qualitative analysis