

ZYDP

ultra pure water system



Control Panel screen
 -Power On/Off
 -On/Off Indicator
 -3 water quality sensor
 -History data memory



Ultra-Purification Cartridge
 -Adaptation of high quality medical grade resin, US DOW and Nulon resin
 -Polishing cartridge removes ions and organic contaminants before final filter

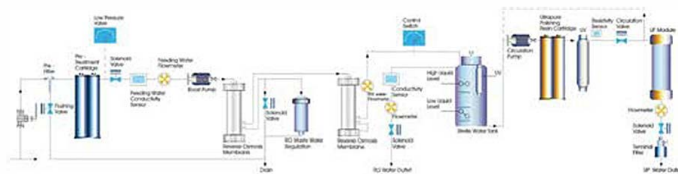


High Power UV Lamp
 -After strong water treatment weight of 1000 Gallons optional bromination and flow controller to meet the user's application requirement



High-Flow UV Lamp
 -Flow rate up to 50 GPM 100 Gallons
 -emits germicidal radiation and hydrolytic degradation
 -UVB is a robust and pressure resistant stainless steel housing

flow Schematic



Specifications

Model	ZYDP-I	ZYDP-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)	18.25MΩ.cm	
Bacteria	<0 c.f.u/ml	
Particle(≥0.1µm)	<1/ml	
Heavy metal ion	<0.1ppb	
Endotoxin(Purpurex)	N/A	≤ 0.001EU/ml
TOC Level***	< 3 ppb	< 3 ppb
RNases	N/A	<0.001pg/ml
DNases	N/A	<4pg/ml
Dimension and weight	Length+Width+Height 530+400+585mm, 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	



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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 filler 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 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.
- 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