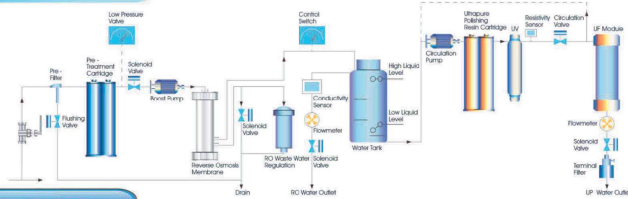


ZYM ultra pure water system



flow Schematic



Specifications

Mode	ZYM-I	ZYMII-II	ZYM-III	ZYM-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	< 1cfu/ml	< 0.1cfu/ml	< 0.1cfu/ml
Particle(>0.1µm)		< 1/ml		
Heavy metal ion		< 0.1ppb		
Endotoxin(Pyrogens)	N/A	N/A	N/A	≤ 0.001EU/ml
TOC Level****	< 10 ppb	< 10 ppb	< 5 ppb	< 5 ppb
Dimension and weight		Length×Width×Height:530×380×550mm, 30-40Kg		
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

- LCD controlling system, intuitively display the system running state and various parameters.
- 2 way online water quality sensor, RO water, deionized water, or ultrapure water respectively. And warn once water quality's standard exceeding
- 2 way flow sensor, achieve quantified dispensing of RO water, deionized water, or ultrapure water.
- 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.
- All Cartridges replacing alarm function, based on time, or 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 (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.
- Comprehensive Information query and management function, water quality, cartridges usage and alarm information.
- System time setting (year/month/day/hour/minute), timing standby (0-60 minute),and timing shutdown (0-24 hour)function.
- Level II password, protect all the parameters setting, and prohibit any unauthorized setting charge.
- 2 kind of pure water tank(sterile water tank and pressure tank). Also external tanks is optional.
- 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.
- 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.
- 5000D ultrafiltration module, effectively eliminate endotoxin, and suitable for precise cell cultivating and IVF.
- Terminal disinfection filter, assure that terminal pure water is absolutely axenic.

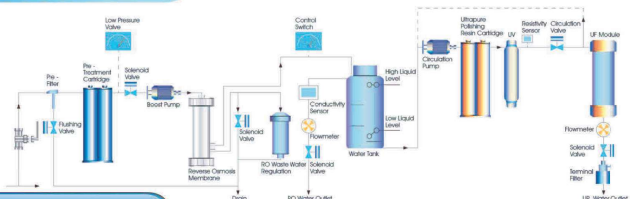
Typical Scientific Applications

- ICP-MS(Inductively Coupled Plasma Mass Spectrometry)
- GFAAS(Graphite Furnace Atomic Absorption Spectrophotometry)
- HPLC
- IC(Ion Chromatography)
- ICP-AES(Inductively Coupled Plasma 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
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TOC Level***	< 10 ppb	< 10 ppb	< 5 ppb	< 5 ppb
Dimension and weight	Length×Width×Height:550×420×1120mm, 70-80Kg			
Electrical requirements	AC110-240V, 50/60Hz			
Power(W)	50W-100W			
Terminal disinfection filter (TF)	N/A	yes	yes	yes
UV lamp	N/A	N/A	yes	yes
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Standard configuration	Main body (Including 1 set of cartridge)+pressure tank			

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