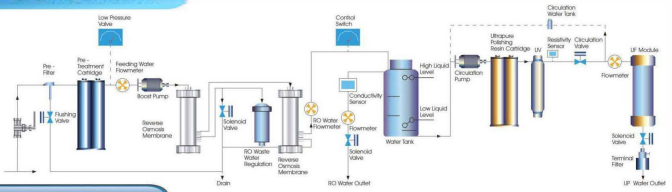
ZYDM

2 stage RO system
ultra pure water system

flow Schematic



Specifications

Model	ZYDM-I-10L	ZYDM-II-10L	ZYDM-III-10L	ZYDM-IV-10L
Output(25°C)*	10 liters/hour			
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 - 1st stage RO water	Feed water conductivity×2%			
Conductivity - 2nd stage RO water	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)	18.2MΩ.cm			
Bacteria	<0.1cfu/ml			
Particle(>0.1μm)	<1pc/ml	<1pc/ml	<1pc/ml	<1pc/ml
Heavy metal ion	<0.1ppb	<0.1ppb	<0.1ppb	<0.1ppb
Endotoxin(Pyrogens)	N/A	N/A	N/A	≤ 0.001EU/ml
TOC Level***	< 10 ppb	< 10 ppb	< 3 ppb	< 3 ppb
Dimension and weight	Length×Width×Height:530×380×560mm, 40Kg			
Electrical requirements	AC110-240V, 50/60Hz			
Terminal disinfection filter	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)+10 liters pressure tank			
Can be selected flow rate (L/H)	10L/H			

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 change.
- 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 desalinization 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
- Qualitative analyses Ultra trace analysis Weatern blotting