



ZY LABWATER

SICHUAN ZHUOYUE WATER TREATMENT EQUIPMENT CO.,LTD.

ZYMICRO * ULTRA PURE WATER SYSTEM



Microprocessor Control
-Fully automatic and self-diagnostic system monitors and controls working condition.
- 2 water quality sensor,consumables management,system circulation and disinfection function.



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



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



High-Strength UV lamp
-Dual wavelength UV lamp185*254nm ensures organic molecule oxidation and bacteria destruction
- Held in a robust and corrosion-resistant stainless steel housing



BILMAR BİLİMSEL ARAŞTIRMA VE MÜHENDİSLİK ANONİM ŞİRKETİ
Web page : www.bilmar.com.tr
E-mail : bilkim@bilmar.com.tr



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.
- 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 (interval and continuous time setting), extend RO membrane's life.
- 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.
- 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 18.2MΩ.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.
- Terminal disinfection filter, assure that terminal pure water is absolutely axenic.

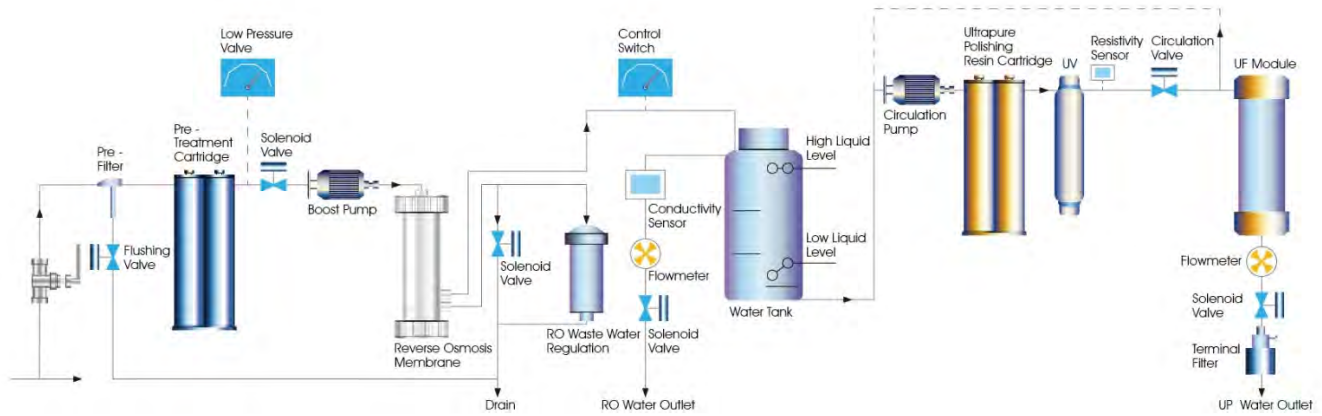
Typical Scientific Applications

- ICP-MS (Inductively Coupled Plasma-Mass Spectrometry)
- HPLC
- IC (Ion Chromatography)
- ICP-AES (Inductively Coupled Plasma-Atomic Emission Spectrometry)
- AAS (Atomic Absorption Spectrophotometry)
- Buffer and media preparation Electrophysiology
- Flame Photometry
- Spectrophotometry
- Electrochemistry
- Mammalian and bacterial cell culture
- Plant tissue culture



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TECHNICAL SPECIFICATIONS

MODEL	ZYMICRO-I-10L	ZYMICRO-II-10L	ZYMICRO-III-10L	ZYMICRO-IV-10L
Production Output (Tank empty , 25°C)	10 liter/hour	10 liter/hour	10 liter/hour	10 liter/hour
Flow Rate (Tank full)	1.5-1.8 liter/minute	1.5-1.8 liter/minute	1.5-1.8 liter/minute	1.5-1.8 liter/minute
Feed Water Requirements				
Source	Tap Water	Tap Water	Tap Water	Tap Water
TDS	< 200 ppm	< 200 ppm	< 200 ppm	< 200 ppm
Pressure	1-5 Kg/cm ²	1-5 Kg/cm ²	1-5 Kg/cm ²	1-5 Kg/cm ²
Temperature	5-40°C	5-40°C	5-40°C	5-40°C
RO-Pure Water (Type III) Quality				
Conductivity (25°C)	< 2-10 µs/cm	< 2-10 µs/cm	< 2-10 µs/cm	< 2-10 µs/cm
Ion Rejection Rate (new RO membrane)	> 99%	> 99%	> 99%	> 99%
TOC-Organic Rejection Rate	> 99%	> 99%	> 99%	> 99%
Particles and Bacteria Rejection Rate	> 99%	> 99%	> 99%	> 99%
UP-Ultra Pure Water (Type I) Quality				
Resistivity (25°C)	18.2 MΩ.cm	18.2 MΩ.cm	18.2 MΩ.cm	18.2 MΩ.cm
Bacteria	< 1 cfu/ml	< 1 cfu/ml	< 0.1 cfu/ml	< 0.1 cfu/ml
Particles (≥ 0,1 µm)	< 1 pc/ml	< 1 pc/ml	< 1 pc/ml	< 1 pc/ml
Heavy Metal	< 0.1 ppb	< 0.1 ppb	< 0.1 ppb	< 0.1 ppb
TOC	< 10 ppb	< 10 ppb	< 10 ppb	< 5 ppb
Endotoxin (Pyrogens)	-	-	-	≤ 0.001 EU/ml
Electrical Power Requirements				
Voltage / Frequency	220 V / 50-60 Hz			
Dimensions (LxWxH) / Weight				
53 x 40 x 59 cm / 40 Kg				
Final Disinfection Filter	-	Yes	Yes	Yes
UV Lamp	-	-	Yes	Yes
UF Filter	-	-	-	Yes
Standard Package	Main Unit (with 1 set cartridges in the machine) , 10lt Pressure Tank			
Production Output Selection				
10 , 20 , 40 , 60 , 80 , 100 , 120 , 150 liter/hour				



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