



# ZY LABWATER

SICHUAN ZHUOYUE WATER TREATMENT EQUIPMENT CO.,LTD.

## ZYCGF \* ULTRA PURE WATER SYSTEM



Comprehensive monitoring system  
-LCD display  
-1 or 2 water quality sensor.



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



High-Strength UV lamp  
-Dual wavelength UV lamp 185\*254nm ensures organic molecule oxidation and bacteria destruction  
- Held in a robust and corrosion-resistant stainless steel housing

Terminal Filter  
- 0.22 μm membrane filter farthest eliminates contaminants that might interfere with specific application at dispensing point, applicable for HPLC, GC etc.



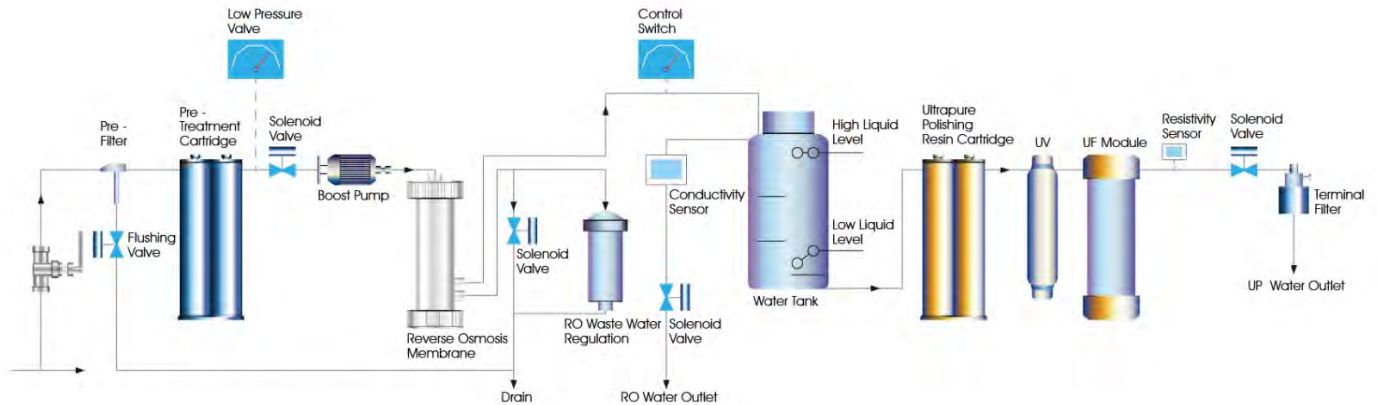


### Features and Advantages

- 2-way online water quality sensor, RO water, deionized water, or ultrapure water respectively.
- 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, extend RO membrane's life.
- System sanitizing procedure, achieve the disinfection of ultrapure water's tube and valve.
- Water dispensing function- timing and quality (time range: 1-99 min, water quality range: 0.1-18.2 MΩ.cm).
- External water tank is optional to meet different need and assure ample water-supply.
- 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.
- Optimized pre-treatment (including PP fiber, KDF and active carbon cartridge), effectively protect RO membrane.
- 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&254 nm) 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.

### 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 Spectrometry)
- Buffer and media preparation Electrophysiology
- Flame Photometry
- Spectrophotometry
- Electrochemistry
- Mammalian and bacterial cell culture
- Plant tissue culture
- Biochemical analysis of chemical reagents;



### TECHNICAL SPECIFICATIONS

MODEL	ZYCGF-I-10L	ZYCGF-II-10L	ZYCGF-III-10L	ZYCGF-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
<b>Feed Water Requirements</b>				
Source	Tap Water	Tap Water	Tap Water	Tap Water
TDS	< 200 ppm	< 200 ppm	< 200 ppm	< 200 ppm
Pressure	1-5 Kg/cm2	1-5 Kg/cm2	1-5 Kg/cm2	1-5 Kg/cm2
Temperature	5-40°C	5-40°C	5-40°C	5-40°C
<b>RO-Pure Water (Type III) Quality</b>				
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%
<b>UP-Ultra Pure Water (Type I) Quality</b>				
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	< 20 ppb	< 20 ppb	< 10 ppb	< 10 ppb
<b>Electrical Power Requirements</b>				
Voltage / Frequency	220 V / 50-60 Hz			
<b>Dimensions (LxWxH) / Weight</b>				
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 liter/hour			