



# ZY LABWATER

SICHUAN ZHUOYUE WATER TREATMENT EQUIPMENT CO.,LTD.

## ZYPFT \* ULTRA PURE WATER SYSTEM



Colorful touch screen  
-Human-machine interface  
-One button disinfection  
- 3 water quality sensor  
-History data inquiry



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



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.



BILMAR BİLİMSEL ARAŞTIRMA VE MÜHENDİSLİK ANONİM ŞİRKETİ  
Web page : [www.bilmar.com.tr](http://www.bilmar.com.tr)  
E-mail : [bilkim@bilmar.com.tr](mailto:bilkim@bilmar.com.tr)



### Features and Advantages

- Colorful high-resolution touch screen controlling system, active 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 two 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 filter 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 18.2MΩ.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.

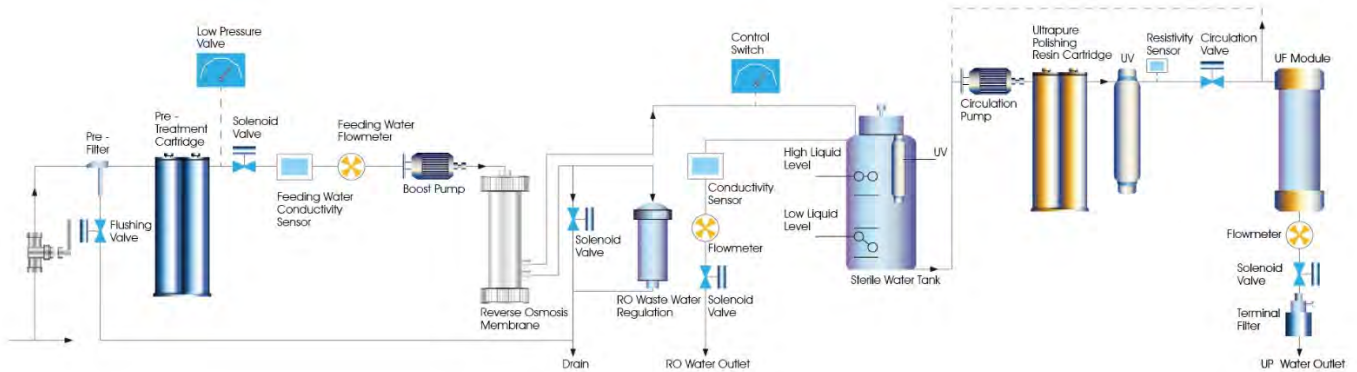
### Typical Scientific Applications

- 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)
- Plant tissue culture



# ZY LABWATER

SICHUAN ZHUOYUE WATER TREATMENT EQUIPMENT CO.,LTD.



## TECHNICAL SPECIFICATIONS

MODEL	ZYPFT-I-10L	ZYPFT-II-10L
Production Output (Tank empty , 25°C)	10 liter/hour	10 liter/hour
Flow Rate (Tank full)	1.5-1.8 liter/minute	1.5-1.8 liter/minute
<b>Feed Water Requirements</b>		
Source	Tap Water	Tap Water
TDS	< 200 ppm	< 200 ppm
Pressure	1-5 Kg/cm2	1-5 Kg/cm2
Temperature	5-40°C	5-40°C
<b>RO-Pure Water (Type III) Quality</b>		
Conductivity (25°C)	< 5 µs/cm	< 5 µs/cm
Ion Rejection Rate (new RO membrane)	> 99%	> 99%
TOC-Organic Rejection Rate	> 99%	> 99%
Particles and Bacteria Rejection Rate	> 99%	> 99%
<b>UP-Ultra Pure Water (Type I) Quality</b>		
Resistivity (25°C)	18.2 MΩ.cm	18.2 MΩ.cm
Conductivity (25°C)	0,055 µs/cm	0,055 µs/cm
Bacteria	< 0.1 cfu/ml	< 0.1 cfu/ml
Particles (≥ 0,1 µm)	< 1 pc/ml	< 1 pc/ml
Heavy Metal	< 0.1 ppb	< 0.1 ppb
TOC	< 3 ppb	< 3 ppb
Endotoxin (Pyrogens)	-	≤ 0.001 EU/ml
Rnases	-	< 0.01 ng/ml
Dnases	-	< 2 pg/µl
<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
UV Lamp	Yes	Yes
UF Filter	-	Yes
Standard Package	Main Unit (with 1 set cartridges in the machine) , 30lt Sterile Tank	
Production Output Selection	5 , 10 , 20 , 30 , 40 , 60 , 80 , 100,120 liter/hour	



**BİLMAR BİLİMSEL ARAŞTIRMA VE MÜHENDİSLİK ANONİM ŞİRKETİ**  
 Web page : [www.bilmar.com.tr](http://www.bilmar.com.tr)  
 E-mail : [bilkim@bilmar.com.tr](mailto:bilkim@bilmar.com.tr)