

UP Systems





Extensible point of use



Accessories



Pedal switch



PF final filter
(Pyrogen free)



Printer

System Display



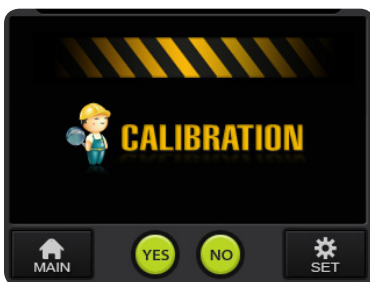
POWER (RUN)



RO (RUN)



UP (RUN)



CALIBRATION

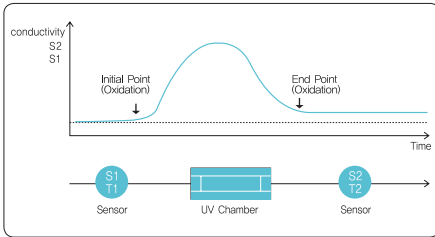


AUTO CLEANING

Arioso UPSystem

Ultra Pure water System

TOC measuring principle

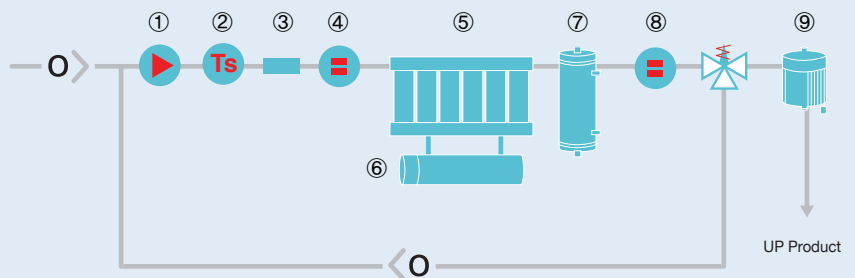


TOC measuring principle

- 1) Measuring conductivity and temperature of the water before oxidation in S1.
- 2) Oxidizing it with UV lamp in the chamber.
- 3) Measuring conductivity and temperature of the water after oxidation in S2 and compensating at 25°C.
- 4) Measuring TOC value with difference between the conductivity values in S1&S2. ($\Delta\text{conductivity} = S2-S1$)



Flow Schematic



- UP system ① Pump ② Temp sensor ③ Pressure sensor
- ④ Feed water sensor ⑤ UP pack ⑥ 254/185 UV lamp
- ⑦ MW5000 UF filter ⑧ Resistivity sensor ⑨ 0.2 μ m final filter(PF filter)

Applications

Type	Scholar		Scholar - UV		Bio	Integrate
	—	PF	—	PF		
Type I grade water	○	○	○	○	○	○
Analytical instruments	○	○	○	○	○	○
AAS, ICP/MS, IC	○	—	○	○	—	○
HPLC, GC	—	—	○	○	—	○
TOC	—	—	○	○	—	○
Cell & tissue culture	—	○	—	○	○	○
In vitro fertilization	—	○	—	○	○	○
Electrophoresis	—	○	—	○	○	○
RNase, DNase&DNA free	—	—	—	○	—	○
Molecular biology	—	—	—	○	—	○

Applicable Model : Zenix UP / Zeneer Power, UP / New PNIX Power, UP / New Human Power, UP / Nex Power, UP Series

Specifications

	Arioso UP 900				Arioso UP 900 (TOC)							
Water quality display	Ambient temp : -10 to 100°C				←							
	Feed water temp : 0 to 100°C				←							
	Feed water : 0 to 990 μ S/cm				←							
	Ultra pure(UP) : Up to 18.3M Ω ·cm				←							
	Inlet pressure : 0 to 10kg/cm ²				←							
	—				TOC : 0 to 200 ppb							
Display & Controller	Large color 70x52 touch screen											
Pressure display	Digital Pressure sensor (0~10kg/cm ²)											
Self-check functions	· Various valves · Auto sensor calibration · System operation status · Self diagnosis											
Cleaning functions	· Self test · Auto regular cleaning · Auto cleaning lower than setting value											
System fuctions	· Filter replacement alarm & display(Up pack, UF, UV lamp, 0.2 μ mCF) · Volumetric time setting · Language (English, Korean etc) · Auto/ Manual Pressure S/W · Extensible point of use											
Type	Scholar		Scholar-UV		Bio	Integrate						
	—	PF	—	PF								
Product flow rate (L/min)	1.5	1.5	1.5	1.5	1.5	1.5						
0.2 μ m final filter	STD		STD		STD	STD						
Pyrogen free final filter		STD		STD								
254/185 UV lamp			STD	STD		STD						
MW 5000 UF filter					STD	STD						
Water quality												
-TOC (ppb)	5~10			0~5			5~10			0~5		
-Endotoxin (Eu/ml)	NA	< 0.125		NA	< 0.125		< 0.001			< 0.001		
-Bacteria (cfu/ml)	<1			<1			<1			<1		
-Particles (< 0.22 μ m/ml)	<1			<1			<1			<1		
Standard accessories	UP pack, 0.2 μ mCF, manual, power cord											
UP Water analyzing data (ppb)	Fe	Cu	Al	Ni	Zn	Cr	Na	K	Cl ⁻	NO ₂ ⁻	NO ₃ ⁻	SO ₄ ⁻²
	<0.005	<0.005	<0.005	<0.005	<0.02	<0.005	<0.01	<0.02	<0.01	<0.02	<0.02	<0.01
Dimensions (WxDxH)	320 x 490 x 475 mm											
Power	230V / 110V, 50/60Hz, 60W											
Optional Accessories	· Printer · Level sensor for Pure water tank · Wall mounting bracket · Foot pedal switch · Level sensor for UP water tank · Frame											

* All specifications are subject to change without notice.