

WPL Series, Laboratory Water Purification Systems

- WPL-RO Series deionized water system (Tap water inlet)
- WPL-RO-S Series ultra pure water system (Tap water inlet)
- WPL-RO-D Series ultra pure water system (DI water inlet).



Features and Advantage:

Control System	Microprocessor control
Display System	240x128 Graphical LCD display
Quality Monitor	3-way online sensor, detecting the quality of inlet, RO outlet and ultrapure water respectively
Visual and Audio Alarm	Multiple alarm-including inlet water over standard, no water, full water, outlet water over standard, Consumable' life-span ends, malfunction auto-detect
Recirculation System	Manual and auto, freely switchable, ultrapure water recirculation system, keeping a low polluted-level of bacteria
Safety System	With factory and clients' two password, every system setting can be protected, avoiding unauthorized operating
Filter replacement remainder	The life-span can be set and the time used and left can be displayed, replacing auto-reminding, avoiding the decline of water quality.
Sanitization system	Ultra pure water pipeline can be regularly disinfected to keep a high quality water
RO membrane flush	Automatically RO membrane flushing function, extending its life-span
"on-off duty" mode	On/off duty mode increase filter life span
Water tank	Various kind of tanks to meet different needs and assure water-supply
Machine case	Human engineering design, streamline case
Pipeline and adaptor	Pipeline with NSF authorization to assure high quality ultrapure water; new easy-inserting adaptor to make convenience of cartridge maintaining and replacing
Pretreatment cartridge	Ultra long-life pre-cartridge, 6-8 times of normal active carbon (expect PP filter), unnecessary replacement for 2 year most, reducing the working cost
RO membrane	Manufactured by DOW or FCS, realize the combination of long-life and high-quality
Ultra purification cartridge	4 cartridges of ultra purification, using famous nuclear resin to assure best quality
UV module	Double wavelength (185nm & 254nm) UV lamp, restraining bacteria's increase, reducing TOC & enhancing the applicability
UF module	MWCO 5000D PES UF module, effectively eliminating endotoxin, can be used for precise cell cultivating and IVF
Terminal Filtration	Sartorius high-speed and large flux 0.45+0.2 μm polyether alternative compound filter terminal disinfection filter, assuring the quality absolutely axenic

LCD display function:



WPL-RO-UP Systems, Ultra Pure Water Systems (Tap water inlet)

Model		Standards	Eliminating endotoxin	Low TOC	Comprehensive
		WPL-RO-UP-15-S WPL-RO-UP-30-S	WPL-RO-UP-15-UF WPL-RO-UP-30-UF	WPL-RO-UP-15-UV WPL-RO-UP-30-UV	WPL-RO-UP-15-UVF WPL-RO-UP-30-UVF
Flow procedure		PF+KDF+AC+RO+AC-DH+TF	PF+KDF+AC+RO+AC+DI+UF+TF	PF+KDF+AC+RO+UV+AC+DI+TF	PF+KDF+AC+RO+UV+AC+DI+UF+TF
Application		GC,HPLC,IC,ICP PCR, weather analysis Amino acid analysis Reagent preparation	Molecular biology Cell & tissue cultivation Life science,IVF electrophoresis	HPLC,IC,ICP-MS TOC & organism analyse CF-AAS,toxicology study Environmental analyse	HPLC,IC,ICP-MS,CF-AAS Physics,electrochemistry, Molecular biology, Cell cultivation
Pure water quality	Resistivity	18.2 MΩ-cm@25°C			
	Heavy metal	< 0.1ppb			
	TOC	<10 ppb		<3 ppb	
	Bacteria	<1 CFU/ml			
	Endotoxin	-	<0.001 EU/ml	-	<0.001 EU/ml
	Particle(>0.22µm)	<1 / ml			
	TDS (RO water)	5-10 ppm*			
Technical spec.	Output(25°C)	15/30 Liters/hour*			
	Moment output	1.5 Liters/min (with pressure tank) (Less output with UF/UV cartridge)			
	Pure water outlet	RO Water, Ultra pure water			
	Dimension / Weight / Power	W D H: 50 36 54cm / 20-30 Kg / 220V/50HZ, 120W			
Control system	Mode display	Power on, program, inlet rinse, producing, full, circle, regular outlet, disinfection, consumables replacing reminder			
	Safety	low pressure and full water alarm, password, auto-reset, outlet forbidden when alarm or disinfection status			
	System monitor	Monitoring quality of inlet water, RO water and ultrapure water, temperature, used and left time of consumables			
Water source required		Tap water; inlet TDS<200 ppm, 1-40°C, 1.0-3.5 kg/cm2 (if inlet TDS>200ppm, pretreatment is recommended)			
Purification system	Pretreatment unit	5µm spun fiber filter 1+ Long-effective KDF filter 1+ Granular active carbon filter 1 (30L model: 10" PP filter 1+10" KDF filter 1+10"granular active carbon filter 1)			
	RO unit	100 GPD RO membrane 1 (30L model: 2 100 GPD RO membrane)			
	Subsequent unit	Post active carbon filter 1 +Ultra pure polishing resin cartridge 0.2 +4µm terminal filter 1 UV model:+Double wavelength(254&185 nm)UV cartridge 1 UF model:+ 5000 Doulton UF cartridge 1 UVF model:+Double wavelength(254&185 nm)UV cartridge 5000+1 Doulton UF cartridge 1			
Standard configuration		Main body(including:1 set cartridge)4 gallon tank			

- * Inlet water: TDS200ppm, 25OC, 50psi and 15% recovery rate.
- ** GPD=gallon per day 1 gallon=3.8L.
- *** The quality of inlet water will effect output's and cartridge's life.

PF: Pretreating,
 KDF: Kinetic degradation fluxion,
 AC: Active carbon,
 RO: Reverse osmosis, DI: Ion exchange,
 UV: Ultraviolet (Double wavelength: 254&185nm),
 UF: Ultrafiltration TF: Terminal filter.

