

## ST-FLD Series Water Purification System

### Specification of ST-FLD Series Water Purification System

Model	Standard ST-FLD	Eliminating Endotoxin ST-FLD-UF	Low TOC ST-FLD-UV	Comprehensive ST-FLD-UVF	
Flow Procedure	AC + DI + TF	AC + DI + UF + TF	UV + AC + DI + TF	UV + AC + DI + TF	
Application	- GC, HPLC, IC, ICP, PCR - Weather analysis - Amino acid analysis - Reagent preparation	- Molecular biology - Cell and tissue cultivation - Life Science - IVF electrophoresis	- HPLC, IC, ICP-MS - TOC and organism analysis - CF-AAS Environmental Analysis	- HPLC, IC, ICP-MS - Cell Cultivation - Molecular biology - Physics	
Water Quality	Resistivity	18.2 MΩ.cm @ 25°C			
	Heavy Metal	< 0.1 ppb			
	TOC	< 10 ppb	< 3 ppb		
	Bacteria	<1CFU/ml			
	Endotoxin	-	< 0.001 EU/ml	-	< 0.001 EU/ml
	Particle (>0.22µm)	<1/ml			
High Pure Water Quality	Resistivity ≥3 MΩ.cm				
Technical Specification	Output	1.5 L/min (Less output with UF/UV cartridge)			
	Pure Water Outlet	Deionized water, Ultrapure water			
	Dimension (L x W x H)	50L x 36W x 54H cm			
	Weight	20 - 30Kg			
	Electric Requirements	AC110-220V, 50/60Hz, 120W			
Control System	Mode Display	Power on, Program, Inlet Rinse, Producing, Full, Circle, Regular Outlet, Disinfection, Consumables replacing remind			
	Safety	Low Pressure and full water alarm, password, auto reset, outlet forbidden when alarm or disinfection.			
	System Monitor	Monitoring quality of feed water, DI water and Ultrapure water, tempertaure, used and left time of consumables.			
Feed Water Requirements	RO Water, Distilled water, Deionized water 5-45°C, 1 atm				
Purification System	Post Active Carbon filter x1 + Mixed bed resin cartridge x1 + Ultrapure polishing resin cartridge + 0.4 + (0.45 +01)µm terminal filter x1 UV Model: +Double wavelenght (185 & 254)nm UV cartridge x1 UF Model: +5000 Doulton UF catridge x1 UVF Model: +Double wavelenght (185 & 254)nm UV cartridge x1 +5000 Doulton UF cartridge x1				
Standard Configuration	Main body (including: 1set cartridge) + accessory box				

#### REMARK:

Inlet water: TDS 200ppm, 25°C, 50psi and 15% recovery rate GPD:  
gallon per day; 1 gallon= 3.8L  
The quality of inlet water will effect outputs and cartridges life

PF: Pre-Treating  
AC: Active Carbon  
RO: Reverse Osmosis  
DI: Ion Exchange  
UV: Ultraviolet (Double wave lenthg 254, 185nm) UF:  
Ultrafiltration  
DMF: Double Membrane Filtration  
TF: Terminal Treating