

ST-FLS Series Water Purification System

Specification of ST-FLS Series Water Purification System					
Model	Standard ST-FLS	Eliminating Endotoxin ST-FLS-UF	Low TOC ST-FLS-UV	Comprehensive ST-FLS-UVF	
Flow Procedure	PF + AC +RO +DI + TF	PF + AC + RO +DI + UF + TF	PF + AC + RO + UV + DI + TF	PF + AC + RO + UV + DI + UF + 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			
	RO Unit	<TDS (pps,mg/l) of tap water x4%			
Technical Specification	Output (25°C)	15L/hour (plus model: 30L/Hour)			
	Flow Rate	2L/minute (with pressure tank)			
	Instantaneous Output	1.5 Liters/min (with pressure tank) (Less output with UF/UV cartridge)			
	Pure Water Outlet	RO water, Ultrapure water			
	Dimension (L x W x D)	50L x 36W x 54D 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 reminder.			
	Safety	Low Pressure and full water alarm, password, auto reset, outlet forbidden when alarm or disinfection.			
	System Monitor	Monitoring quality of inlet water, RO water and Ultrapure water, tempertaure, used and left time of consumables.			
Feed Water Requirement	Tap water, Inlet TDS <200 ppm, 5-45°C, 1.0 - 4.0 kgf/cm ² (if inlet TDS >200ppm, extra pre-treatment is recommended)				
	Pre-Treatment	5µm spun fiber filter x1 + Kinetic degradation fluxion filter x1 + Granular active carbon filter x1			
Purification System	RO Part	100 GPD RO membrane x1 (Plus model: 100 GPD RO membrane x2)			
	Subsequent Unit	Post active carbon filter x1 + Ultrapure polishing resin cartridge x4 + (0.45 + 0.1)µm terminal filter x1 UV Model: +Double wavelenght (185 & 254)nm UV cartridge x1 UF Model: +5000 Doulton UF cartridge x1 UVF model: +Double wavelenght (185 & 254)nm UV cartridge x1 + 5000 Doulton UF cartridge x1			
Standard Configuration	Main body (including: 1set cartridge) + 4 gallon tank + 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 lenght 254, 185nm)
UF: Ultrafiltration
DMF: Double Membrane Filtration
TF: Terminal Treating