

## 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	PC + AC +RO +DI +DMF	PF + AC + RO +DI + UF + DMF	PF + AC + RO + UV + DI + DMF	PF + AC + RO + UV + DI + UF + DMF	
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	< 10 ppb		
	Bacteria	< 1 CFU/ml			
	Endotoxin	0	< 0.001 EU/ml	0	< 0.001 EU/ml
	Partical	> 0.22 μm < 1ml			
	TDS	RO Water 5-10 ppm			
Technical Specification	Output (25°C)	15 Liters/hour (plus model 30L/Hour)			
	Instantaneous Output	1.5 Liters/min (with pressure tank) (Less output with UF/UV cartridge)			
	Pure Water Outlet	2-RO water high pure water			
	External Dimesion	50 x 36 x 54 (H x W x D) mm			
	Weight	20-30kg			
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 rest, outlet forbidden when alarm or disinfection.			
	System Monitor	Monitoring quality of inlet water, RO water and ultra pure water, tempertaure, used and left time of consumables.			
	Water Source	Tap water: inlet TDS<200ppm, 1-40°C, 1.0-3.5kg/cm <sup>2</sup> (if inlet TDS>200 ppm, pre-treatment is recommended)			
Purification System	Pre-Treatment	5 μm spun fiber filter + long effective KDF Filter + Granular active carbon filter			
	RO Part	100 GPD RO membrane (Plus model: 2*100 GPD RO Membrane)			
	Subsequent Part	Post active carbon filter + Mixed bed resin cartridge, UT Model: 254nm UV cartridge + 0.2μm terminal filter UV Model: Double Wave Lenght (185 & 254nm) UV Cartridge UF Model: 5000 Doulton UF Cartridge UVF Model: Double Wave Lenght (185 & 254nm) UV Cartridge + 5000 Doulton UF Cartridge			

#### 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