

## ST-FLQ Series Water Purification System

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

Model	ST-FLQ	ST-FLQ-UT	ST-FLQ-PLUS	ST-FLQ-PLUS-T
Flow Procedure	PF + AC + RO + DI	PF + AC + RO + UV + DI + TF	PF + AC + RO + DI	PF + AC + RO + UV + TF + DI
Application	<ul style="list-style-type: none"> <li>- Glassware washer</li> <li>- Agricultural experiment</li> <li>- General biological experiment</li> <li>- Aquatic products</li> <li>- Inlet water for ultra pure water machine</li> <li>- Inlet water for sterilizers/Autoclaves</li> <li>- Preparation of buffer solutions</li> <li>- Aseptic drinking water</li> <li>- Physical and chemical analysis</li> <li>- GC/HPLC</li> </ul>			
Water Quality	Resistivity: 13-17.5 mohm/cm RO Water (TDS): 5-10 ppm Heavy Metal: 0.1 ppb TOC: <30 ppb Bacteria: <1 CFU/ml (only for UT model) Partical: >0.22 um			
Technical Specification	Output (25°C)	15 Liters/hour (plus model 30L/Hour)		
	Instantaneous Output	1.5 Liters/min (with pressure tank)		
	Pure Water Outlet	2-RO water high pure water		
	External Dimesion	42 x 41 x 22 (H x W x D) mm		
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 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)		
Water Source Required	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		

**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 length 254, 185nm)
- UF: Ultrafiltration
- DMF: Double Membrane Filtration
- TF: Terminal Treating