Medium 1600 Series Pure Water System

Features and Functions

- Super-large LCD display, display the system parameters.
- Automatic microcomputer controlling system, multi-menu operating, animation mode display.
- Fault is detected automatically, automatic diagnosis.
- Water quality over standard alarm, no water alarm, consumables end alarm function.
- Consumables residual life shown, inform the user to replace consumables timely.
- 3 way on-line water quality monitoring, monitor the feed water, RO water or Ultrapure water's quality respectively.
- Unique design of consumables, easy for replacement.
- High-strength stainless steel shell, beautiful apprearance.
- Pipeline with NSF authorization to assure high quality ultrapure water.
- New easy-inserting adaptor to make convenienve of cartridge maintaining and replacing.
- Interior tank to save space, and optional exterior tanks meet different need to assure ample water-supply.
- Ro membrane, manufactured by DOW, to assure RO membrane's long time and high quality of pure water.
- Ultrapure polishing resin cartridge with DOW's polishing resin, to assure the top-level water quality of ultrapure water.
- Double wavelength (185 & 254 nm) UV cartridge, to achieve effective sterilization and reduce TOC index. (Optional).
- 5000 Doulton ultra-filtration cartridge, manufactured in Germany, to eliminate endotoxin. Suitable for cell cultivating and IVF (Optional).
- 0.45 + 0.1μm PES terminal filter, to assure the quality absolutely axenic.
- Self-flushing of RO membranes, extending life of the RO membrane.

Specification Medium 1600 Series Pure Water System

Specification		RO Water System	DI Water System	Ultrapure Water System
Model		ST-RO 1600	ST-RO DI1600Q	ST-UP 1600S
Flow procedure		PF+ AC + RO + RO + AC	PF + AC + RO + RO + AC + DI	PF + AC + RO + RO + AC + DI
Feed water requirements		Tap water: TDS <200ppm, 5 - 45ºC), 1.0 - 4.0 Kgf/cm^2		
Application for Production:		- Water for Production Technology - Central Water Supply		
Purification system	Pre-treatment Unit	20" spun fiber filter ×2 + 20" granular active carbon filter ×2 + 20" active carbon block filter ×2		
	RO unit	400 GDP RO membrane x4		
	Purifying unit	10' granular activated carbon filter ×2	25L mixed bed resin cartridge ×1	25L ultrapure polishing resin cartridge ×1
Pure Water quality		• RO Water: - Ion rejection rate: 96% - 99 - Particles and bacteria rejection rate >99% - Organic Rejection rate >99%		
		• DI Water : - Resisitivity >10-18.2 MΩ.cm - Bacteria <0.1cfu/ml - Heavy metal ion <0.1ppb - Particle (>0.2μm) <1/ml		
		• Ultrapure Water: - Resistivity (25ºC): 18.2MΩ.cm - TOC <10ppb (with UV module <3ppb) - RNases <0.01ng/ml (with UF module) - Bacteria <0.1cfu/ml (with terminal filter) - Heavy metal ion <0.1ppb - Endotoxin <0.001 EU/ml (with UF module) - DNases <4pg/μl (with UF module) - Particle (>0.2μm) M1/ml (with terminal filter)		
Output (25ºC)				
Outlet		RO water	RO water, DI water	RO water, UP water
Optional		- 185 and 254nm UV cartridge, to achieve effective sterilization and reduce TOC index. - 5000 Doulton ultra-filtration cartridge, to eliminate endotoxin. - 0.2μm PES terminal filter, to assure the quality absolutely axenic.		
Innovation		- All in one design - 2 sets 800 GPD pure water system, independent operation. if one was broken, the other also run. - The voltage is only DC24V, lower than safe voltage (DC36V) - Working pressure of RO membrane <70psi (4.9kgf/cm^2), assure safety. - Floor space is only 0.5m^2, save more room for laboratory		
Electric Requirements		AC110-220V, 50/60Hz, 120W		
DimensioN (L x W x H)cm		76L × 55W × 121H cm		
Weight		85Kg		
Standard Configuration		Main body (including :1 set cartridge)+ accessory box		

- Feed water :TDS=200ppm, 251, 50psi and 15% recovery rate.
- GPD= Gallon per day, 1gallon=3.78L.
- The quality of feed water will influence outlet water quality and cartridge's life.

- PF: Pretreatment
- AC: Active Carbon
- RO: Reverse Osmosis
- DI: Deionization