



WATER PURIFICATION / WATER PURIFIER - ALPHA SERIES

APPLICATIONS

- **Scientific Research Laboratories** – Provides ultrapure water for analytical testing, molecular biology, and chemical experiments.
- **Pharmaceutical and Medical Use** – Supplies high-quality water for diagnostics, formulations, and instrument sterilization.
- **Electronics and Semiconductor Manufacturing** – Delivers contaminant-free water essential for precision processes.
- **Food and Beverage Testing** – Ensures purity for product analysis, formulation, and safety evaluations.
- **Educational Institutions** – Supports academic labs with reliable purified water for teaching and experiments.
- **Quality Control and Compliance** – Meets strict requirements for water purity in line with ASTM, EN, DIN, and international standards.

FEATURES

Advantages of Water Purification - Alpha Series

- Pipeline with NSF authorization to assure high quality ultra-pure water
- Automatic microcomputer controlling system with multi-menu operation and display
- Automatically detects fault and performs diagnostic
- Alarm notifications for water quality, no water in system and consumables ending
- Displays consumables residual life and informs the user to replace consumables
- On-line water quality monitoring systems which monitor the inlet, reverse osmosis (RO) and ultra pure water's
- Built-in system disinfection procedure
- Embedded sterilization program to achieve full disinfection
- Unique design of consumables which are easy to replace

- Built-in 10L water tank to save place and external tank is available
 - RS232 interface records water quality automatically when using the external device
 - The instrument's exterior consists of high-strength plastic in an elegant design
 - Reverse osmosis membrane of DOW, stable operation and high desalinization rate
 - DOW's nuclear-grade resin ensures ultra-pure water up to 18.2 MΩ-cm
 - Double wavelength (185&254nm) UV lamp to restrain bacteria's increase
 - MWCO 5000D UF module, effectively eliminating endotoxin
 - (0.45+0.2)μm polyether alternative compound filter terminal & disinfection filter
 - Fast-plug pipeline to ensure quick and hygienic environment
 - Super-large LCD display which displays the running state and various parameters
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Advantages of Alpha Series - Ultra Pure Water System- Tap Water Inlet (Urban Drinking Tap Water Inlet)

- Built-in 10L water tank to save place
 - Unique design of consumables which are easy to replace
 - Can add external tank to provide more water yield
 - Built-in system disinfection procedure
 - Embedded sterilization program
 - On-line water quality monitoring.
 - Timing, qualitative water function
 - Super-large LCD display
 - Automatic micro computer control system
 - Fault automatic detect by itself
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Advantages of Alpha Series - Ultra Pure Water System - Distilled Water Inlet

- Distilled water, deionized water or reverse osmosis water inlet
- Produce 18.2MΩ-cm ultra pure water
- Unique design of consumables which are easy to replace
- Built-in system disinfection procedure
- Built-in circulating system
- On-line water quality monitoring
- Timing, qualitative water function
- Super-large LCD display
- Automatic micro computer control system

Fault automatic detect by itself

TECHNICAL SPECIFICATIONS

Model	Standard	Eliminating endotoxin	Low TOC	Synthesizing
	Alpha 12	Alpha 12F	Alpha 12V	Alpha 12FV
	Alpha 24	Alpha 24F	Alpha 24V	Alpha 24FV
Endotoxin	-	□ 0.001EU/ml	-	□ 0.001EU/ml
TOC*	10ppb		3ppb	
Inlet water requirement	tap water, temperature: 5-45°C, pressure:1.0 - 4.0kgf/cm2			
Output of pure water	12L/hr or 24L/hr			

Output of ultra pure water	>1.5L/min
Resistivity of ultra pure water	18.2MΩ-cm
Bacteria	<1CFU/ml
Particle (>0.1μm)	<1/ml
Heavy metal ion	<0.1ppb
Conductivity of RO water	< Conductivity of tap water×5%
Dimension and weight	Length: 550mm,Width: 390mm,Height: 610mm, Weight: about 20Kg
Electrical requirements	AC110-220V,50/60Hz
Power	120W

Model	Standard	Eliminating endotoxin	Low TOC	Synthesizing
	Alpha	Alpha F	Alpha V	Alpha FV
Endotoxin	-	□ 0.001EU/ml	-	□ 0.001EU/ml
TOC*	10ppb		3ppb	
Inlet water requirement	tap water, temperature: 5-45°C, pressure:1.0 - 4.0kgf/cm2			
	5-45°C,1atm.			
Output of pure water	>1.5L/min			
Resistivity of ultra pure water	18.2MΩ-cm			
Bacteria	<1CFU/ml			

Particle (>0.1μm)	<1/ml
Heavy metal ion	<0.1ppb
Conductivity of RO water	< Conductivity of tap water×5%
Dimension and weight	Length: 550mm,Width: 390mm,Height: 610mm, Weight: about 20Kg
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Part #	Description - Main Unit & Customizable Options
TT-ALPHA12	Water Purification Alpha 12 - Tap water inlet, output 12L/hr, TOC 10ppb
TT-ALPHA12F	Water Purification Alpha 12F - Tap water inlet, output 12L/hr, Endotoxion 0.001EU/ml, TOC 10ppb
TT-ALPHA12V	Water Purification Alpha 12V - Tap water inlet, output 12L/hr, TOC 3ppb
TT-ALPHA12FV	Water Purification Alpha 12FV - Tap water inlet, output 12L/hr, Endotoxion 0.001EU/ml, TOC 3ppb
TT-ALPHA24	Water Purification Alpha 24 - Tap water inlet, output 24L/hr, TOC 10ppb
TT-ALPHA24F	Water Purification Alpha 24F - Tap water inlet, output 24L/hr, Endotoxion 0.001EU/ml, TOC 10ppb
TT-ALPHA24V	Water Purification Alpha 24V - Tap water inlet, output 24L/hr, TOC 3ppb
TT-ALPHA24FV	Water Purification Alpha 24FV - Tap water inlet, output 24L/hr, Endotoxion 0.001EU/ml, TOC 3ppb
TT-ALPHA	Water Purification Alpha - Distilled water inlet
TT-ALPHAF	Water Purification Alpha F - Distilled water inlet, Endotoxion 0.001EU/ml, TOC 10ppb
TT-ALPHAV	Water Purification Alpha V - Distilled water inlet, TOC 3ppb

TT-ALPHAVF	Water Purification Alpha VF - Distilled water inlet, Endotoxion 0.001EU/ml, TOC 3ppb



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