



Laboratory Water Purification

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Darsun Scientific Laboratory Water Purification

ALPHA SERIES
BETA SERIES
ECO SERIES



Product Overview

The Mini-Q series feature a 7-inch full-touch color display. The unit is constructed from ABS engineering plastic with a robust, stable structure and an elegant design, incorporating a design that separates water and electrical components.

It utilizes a new modular, all-in-one structure and a high-capacity, nuclear-grade ion-exchange purification unit to meet your rigorous, professional .

Product Features

1. Source water quality directly affects produced water quality and the lifespan of the filters.
2. Users should provide source water or distilled water tank.
3. This model can serve as a point-of-use ultrapure water unit connected to a central pure water system in a laboratory building.
4. Feed water TOC is less than 50 ppb.
5. Product water TOC levels depend on feed water TOC values and system configuration, operation must follow professional protocols and correct sampling procedures.
6. 0.5 μm models are equipped with a 254 nm UV sterilization system to effectively eliminate bacteria and microorganisms.
7. UV models feature a 0.22 μm polyether sulfone (PES) composite membrane terminal sterilization filter to ensure water quality.

FEATURES

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Application

Experimental applications including HPLC, TOC, PCR, AAS, ICP, LC-MS, GC-MS, ICP-MS, TOC analysis, gas chromatography, amino acid analysis, ultra-trace and trace inorganic and organic analysis, molecular biology, microbiology (PCR applications and analysis), electrophoresis, gel analysis, biochemistry, cell and culture media preparation, IVF, monoclonal antibody production, proteomics, and genomics.

Technical Specifications

Name	Basic Type	UV Type
Model	DS-Alpha-Q-12S/16S/24S	DS-Alpha-12U/16U/24U
Configuration	Pre-filter + RO system + Purification + Ultra-purification	Pre-filter + RO system + Purification + UV + Ultra-purification + Terminal Filter
Production	12/16/24/32 L/H	12/16/24/32 L/H
Instant Dispensing	Max 1.6L/H	
Source Water	City tap water, 1-45°C, 0.1-0.5MPa, TDS<300ppm	
RO Desalination Rate	≥98% (New membrane)	
RO Water Quality	Source water's conductivity x2% s/cm @25°C (Online monitoring)	
Conductivity	18.25MΩ.cm@25°C (Online monitoring)	
UP Water Quality		
Resistivity	(254nm, 1cm optical path) ≤0.001	
Absorbance	(254nm, 1cm optical path) ≤0.001	
Soluble Silicon	<0.01mg/L	
Evaroption Resisdue		
Silicon Rejection Rate	>99.9%	
Microparticles	(>0.1 μm) <1/ml	
TOC	≤5ppb	
Heavy Metal Ions	≤0.1ppb	
Heat Resources	<0.001Eu/ml (Optional UF)	
Bacteria	<0.01cfu/ml	
RNases	<1pg/ml	
DNases	<5pg/ml	
Power Supply	220V/50HZ	
Power Consumption	30W-50W	
Noise	≤40(dB)	
Dimensions	520×260×505	
Weight	20kg-25kg	