PRODUCT CATALOG

DEIONIZED WATER SYSTEM BKQ-501

ISO9001 CERTIFIED

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DEIONIZED WATER SYSTEM

The system features a floor-standing design with a clean appearance and convenient consumable replacement.
It includes a built-in high-density polyethylene sterile water tank and is available in seven output capacities : 40,60,80,100,160,200, and 300 L/h(@25°C). The product water quality conforms to GB/T 6682-2008 laboratory water standard, CAP requirements, and WS/T 574-2018 purified water standard for clinical laboratory reagents.
The core purification system uses a self-developed reverse osmosis membrane with high salt rejection, anti-fouling performance, long service life, and low consumption. An automatic RO membrane flushing function is integrated to help maintain water purity, while high-quality fittings support long-term stable and leak-free operation.
The system provides real-time monitoring and visual display of water quality, including online conductivity and storage tank low-level indication. Water dispensing is flexible, supporting both constant-pressure output with adjustable flow and pressure, and non-pressurized output. The tank base clearance is designed for convenient daily water collection.

SPECIFICATIONS

Model	BKQ-501
Production Rate	40L/hr
Tank Capacity	20L
Feed Water Hardness	< 200 ppm
Pressurized Output Flow	90 L/h
DI Water Quality :	
Conductivity	≤ 0.1 μS/cm @ 25°C
TOC	< 500 ppb
Salt Rejection	≥ 98.5% @ 25°C
Organic Removal Rate	> 99%
Microorganisms	< 10 CFU/mL
Microparticles	≤ 1/mL
Heavy Metal Content	≤ 0.1 ppb
Main Unit Dimensions(mm)	380x550x1100
Water Quality Monitoring	1 channel
Alt Name	Deionized Water System

APPLICATIONS

1. Routine Rinsing & Reagent Preparation
Glassware rinsing to remove residual ions and contaminants.
Reagent dilution and standard solution preparation with reduced impurity interference.
2. Trace Inorganic Analysis
Suitable for AAS workflows requiring low ionic interference.
Applicable to IC sample preparation where a high-purity water matrix is preferred.

3. Biological Laboratory Preparation
Useful for medium preparation and solution dilution in common biological workflows.
Suitable for microbiology-related preparation where low microbial and organic contamination is desired.
4. Instrument Support
Applicable to HPLC mobile phase preparation and sample dilution.
Applicable to ICP-MS sample preparation to help reduce background ionic interference.
5. Convenient Design: Better User Experience
Disposable consumable design for fast and convenient replacement.
Supports both constant-pressure and non-pressurized water dispensing for easier daily use.
Built-in tank level monitoring with low-level reminder.
6. Efficient Purification: Stable Water Quality
Self-developed RO membrane with high salt rejection, anti-fouling performance, long service life, and low consumable burden.
Built-in high-density polyethylene sterile water tank for clean water storage.
Automatic RO membrane flushing helps extend membrane life and maintain stable water quality.
7. Smart Control: Efficient Management
MCU-based intelligent control system for real-time water quality monitoring and management.
Online conductivity monitoring with visual display of operating status.
Low tank level reminder and other maintenance prompts for daily upkeep.
8. Stable Operation: Sustained Performance
Multiple output capacities: 40/60/80/100/160/200/300 L/h for different laboratory needs.
High-quality pipe fittings help ensure long-term leak-free, reliable operation.
Constant-pressure output supported in the range of 0.05-0.35 MPa, adjustable as needed.

Biolab Scientific Ltd.
Trillium Executive Center, East Tower, 675 Cochrane Dr, Markham, Ontario L3R 0B8, Canada
Email: info@biolabscientific.com | Website: www.biolabscientific.com