

NuZar Q

Water Purification System

Q

Pure water to ultrapure water

NuZar Q water system set is a compact water purification system, producing ultrapure water directly from pure water (EDI, RO, distilled, deionized water). The system can deliver up to 2 liters of ultrapure water per minute.

The NuZar systems introduce a unique series to the RephiLe water purification portfolio. They are specifically designed for laboratories that demand a balance between cost of ownership and exceeding their purified water requirements.



Compact and powerful.

Key Features

Reliable, Stable, Traceable and Predictable

Simple installation and maintenance

- ◇ RFID tracking of consumables for enhanced management
- ◇ Easy to remove consumable access cover.

Low running cost

- ◇ Self-maintenance functions for maximum cartridge effectiveness and lifetime
- ◇ RFID record of cartridge history for predictable consumable replacements
- ◇ Highly-efficient cartridges



Reliable water quality & stable system performance

- ◇ Automatic hourly recirculation of ultrapure water

Data traceability

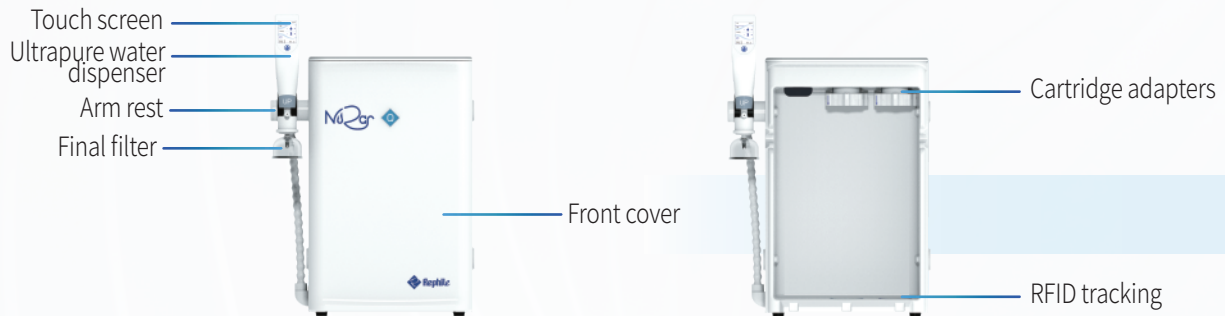
- ◇ Automatic data backup for up to 2 years
- ◇ Easy data transfer through multiple interfaces, such as LAN, USB, etc.

Compact and small footprint

- ◇ Placement flexibility - on the bench or on a wall
- ◇ Two dispenser heights
- ◇ All-in-one design. Space-Saver



Components & Parts



Cartridge

- ◇ Optimized flow design to improve water quality stability & efficiency of polishing resins
- ◇ High pressure rated housings, proprietary sealing, and double O-ring design ensures operational confidence
- ◇ Cartridge color, label, and RFID recognition prevent incorrect installation



Ergonomic dispenser with 2.4" color touch screen

- ◇ One dispenser for one system
- ◇ Intuitive display -water quality with temperature compensation, volumetric dispensing & flow rate
- ◇ System alerts are displayed on the touch screen
- ◇ Effortless adjustment -dispensing rate (up to 2 L/min), manual and volumetric dispensing
- ◇ Choice of final filters: RephiBio and 0.2 µm final filter



Two dispenser heights for the ultimate in flexibility



Water Quality Compliance

Quality of ultrapure water meets or exceeds ASTM, CLSI, CAP and ISO Type I water standards.

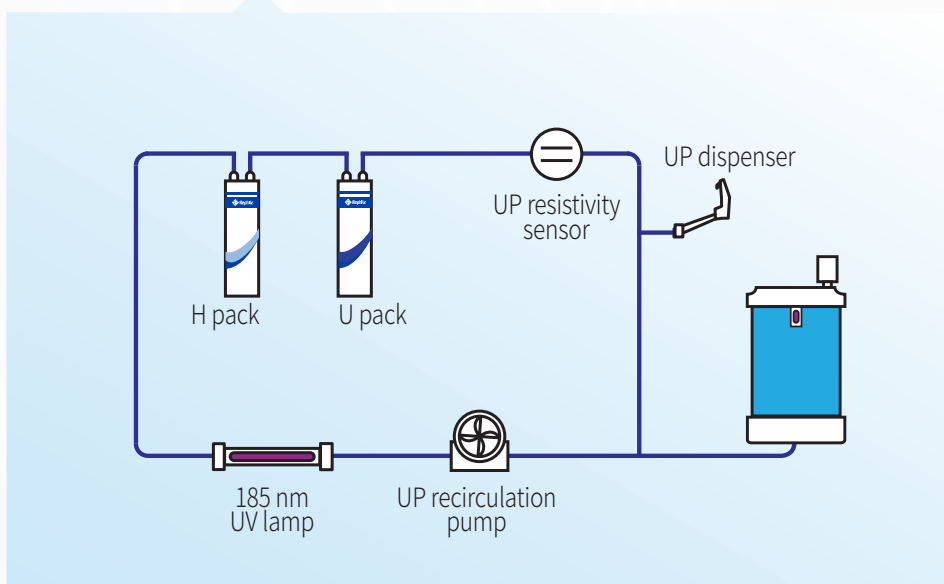
The system is manufactured in our production facility registered by ISO 9001:2015 & ISO 14001:2015. It is CE/RoHS certified.

Main Application



- HPLC mobile phase preparation
- Preparation of reagent blank solutions
- Sample diluent for GC, HPLC, UPLC, ICP-MS or other analytical techniques
- Preparation of buffers and culture media for cell culture
- Preparation of molecular biology reagents, etc.

Flow Schematics

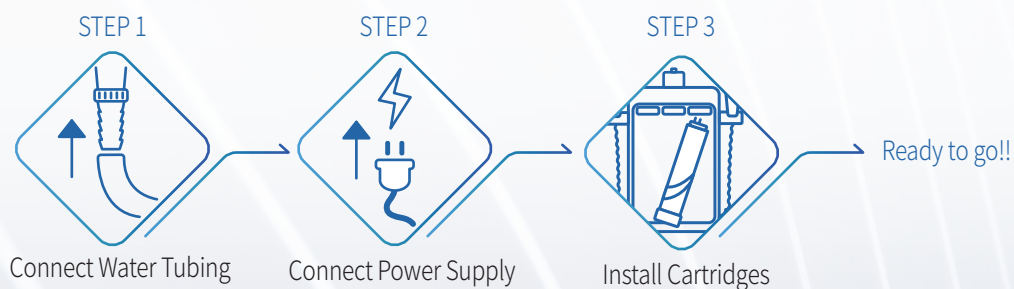


Rephile NuZar systems incorporate advanced technologies and optimized flow paths to ensure exceptional water quality for customers' applications.

Comprehensive process control management with continuous water purity monitoring after every purification step. This allows consistent and reliable operation which ensures the product meets the NuZar specifications.

Installation Information

Plug-N-Play with only 3 steps



Ordering Info

| Description | Cat. No. |
|---------------------------|------------|
| NuZar water system set, Q | RN0Q00000K |

Specifications

| General Specifications | | NuZar Q |
|-------------------------|-------|---|
| Operating voltage | | 24 VDC |
| Input Voltage | | 100 - 240 VAC |
| Main System Power | | < 190 W |
| Feed Water Requirements | | |
| Feed water | | EDI water RO water Distilled water Deionized water |
| Operating temperature | | 5 – 35 °C |
| Feed water pressure | | 0 - 1 bar (0 - 15 psi)* |
| Product Water Type | | Ultrapure |
| Dimensions W x D x H | | 414 x 310 x 624 mm (16.3 x 12.2 x 24.5 in) |
| Weight | net | 18 kg |
| (Approximate) | gross | 27 kg |

*It's recommended to use a pressure regulator if feed water pressure is above 15 psi (1 bar)

Product water Specifications

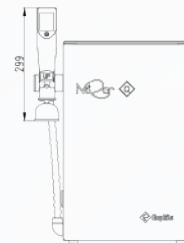
● Ultrapure water

| | |
|-----------------------|------------------------------------|
| Dispenser rate | Up to 2 L/min |
| Resistivity (@25°C) | 18.2 MΩ · cm |
| TOC | < 5 ppb* |
| Particles | No Particles with size > 0.22 μm** |
| Microorganisms | < 0.001 cfu/ml** |
| Pyrogens (endotoxins) | < 0.001 Eu/ml*** |
| RNase | < 0.5 pg/ml*** |
| DNase | < 10 pg/ml*** |

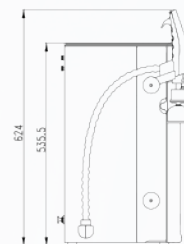
*When TOC Level of feed water is < 50 ppb.

**with a 0.2 μm final filter

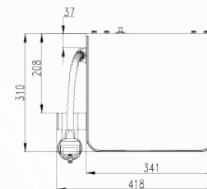
***with a RephiBio filter and ISO Type I water standards



Front view



Side view



Top view

RephiLe Bioscience, Ltd.

Toll Free: +1-855-RephiLe (+1-855-737-4453)

E-mail: info@rephile.com

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Literature: RFPR1522403