

# NuZar U24

# Water Purification System



# Tap water to ultrapure & RO water (24 L/h)

NuZar U24 water system set is a two-in-one integrated water purification system, producing ultrapure water and reverse osmosis water directly from tap water. The system can deliver up to 2 liters of ultrapure water per minute and produce 24 liters of RO water per hour.

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.

#### Reliable water quality & stable system performance Reliable, Stable, Stable RO permeability over a wide range of temperatures Diversion to drain if quality of RO permeate falls below a pre-set Traceable and Predictable set-point Automatic hourly recirculation of ultrapure water Mercury-free germicidal UVC LED lamp preinstalled in tank sanitation module Simple installation and maintenance ◆RFID tracking of consumables (RO Pack included) for enhanced management ◆ Easy to remove consumable Data traceability access cover. ◆Automatic RO membrane

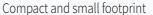
Low running cost

cleaning)

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

cleaning cycles (Cl, and pH

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



- ♦ An in-built single pretreatment P Pack
- ◇ Placement flexibility on the bench or on a wall
- Two dispenser heights
- ◇All-in-one design. Space-Saver





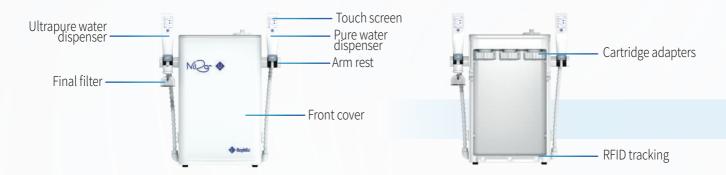








# Components & Parts





#### Cartridges

- 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

- Two dispensers 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



#### Storage Tank

 A 10 L integrated HDPE tank equipped with sanitization module, mercury-free germicidal UVC LED lamp (peak emission wavelength at 265 nm) preinstalled.



Extendable to 30/60/100/350 L (with mercury-free tank sanitization module) if needed

# 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

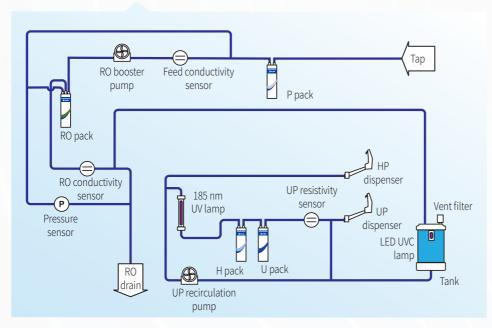
#### Ultrapure water

- 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.

#### **RO** water

- Washing machine for glassware cleaning
- Feed water for laboratory animals
- Feed water for humidifiers, autoclaves, etc.
- Water supply for ultrapure water systems
- Hydroponics

# | 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



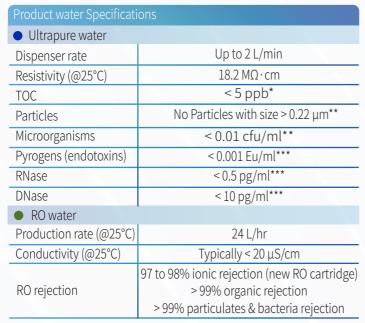


### Ordering Info

Description	Cat. No.
NuZar water system set, U24	RN0U020T1K

# Specifications

General Specifications		NuZar U
Operating voltage		24 VDC
Input voltage		100 - 240 VAC
Main system power		< 190 W
Feed Water Requirements		
Feed water		Tap water
conductivity		< 2000 μS/cm
TDS		< 1000 ppm
Operating temperature		5 – 35 °C
Feed water pressure		1 – 6 bar (15 – 90 psi)
Product Water Type		Ultrapure & RO
Dimensions W x D x H	w/ integrated tank	491 x 422 x 624 mm (19.3 x 16.6 x 24.5 in)
Weight	net	21 kg
(Approximate)	gross	30 kg





<sup>\*\*</sup>with a 0.2 µm final filter



Front view





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Literature: RFPR1512304

<sup>\*\*\*</sup>with a RephiBio filter and ISO Type I water standards