

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.





Components & Parts Touch screen Ultrapure water dispenser Pure water dispenser Cartridge adapters Arm rest NJ) Cor Final filter Front cover **RFID** tracking 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





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

CE/RoHS certified.



Main Application

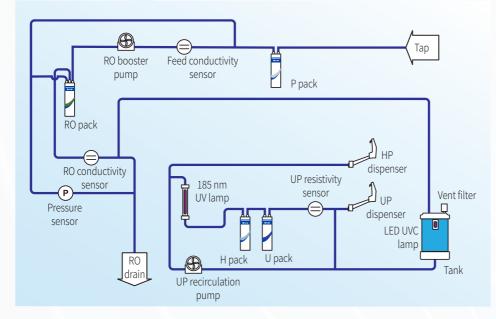
Flow Schematics

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



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.

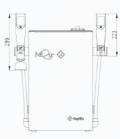
Installation Information

Plug-N-Play with only 3 steps

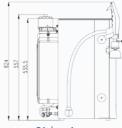




Ordering Info	
Description NuZar water system set, U24	Cat. No. RN0U020T1K
Specifications	KNUUUZUTIK
General Specifications	NuZar U
Operating voltage Input voltage Main system power	24 VDC 100 - 240 VAC < 190 W
Feed Water Requirements	
Feed water conductivity TDS Operating temperature Feed water pressure	Tap water < 2000 μS/cm < 1000 ppm 5 – 35 °C 1 – 6 bar (15 – 90 psi)
Product Water Type	Ultrapure & RO
Dimensions w/ W x D x H integrated tank	d 491 x 422 x 624 mm (19.3 x 16.6 x 24.5 in)
Weight net (Approximate) gross	21 kg 30 kg
Product water Specifications	
 Ultrapure water Dispenser rate Resistivity (@25°C) TOC 	Up to 2 L/min 18.2 MΩ • cm <5 ppb*
Particles	No Particles with size > 0.22 μ m**
Microorganisms Pyrogens (endotoxins) RNase DNase	< 0.001 cfu/ml** < 0.001 Eu/ml*** < 0.5 pg/ml*** < 10 pg/ml***
RO water	
Production rate (@25°C) Conductivity (@25°C) 97 to	24 L/hr Typically < 20 μS/cm ο 98% ionic rejection (new RO cartridge
RO rejection	> 99% organic rejection 99% particulates & bacteria rejection
*When TOC Level of feed water is < 50 **with a 0.2 μm final filter) ppb.



Front view



Side view



with a 0.2 μm final filter *with a RephiBio filter and ISO Type I water standards