

NuZar U+

Water Purification System



Tap water to ultrapure & DI water

The NuZar U+ is a compact, two-in-one integrated water purification system designed for high-efficiency performance. Despite its small footprint, it features a high-flow RO membrane capable of producing RO pure water at a rate of up to 45 liters per hour.

The NuZar series is specifically designed for laboratories that demand a balance between cost of ownership and exceeding their purified water requirements.



NuZar U+



NuZar U+ Extended

The dispensing handle can be system-mounted or installed on a separate stand, offering versatile dispensing solutions to accommodate diverse application scenarios.

Compact and powerful.

Key Features

Reliable, Stable, Traceable and Predictable

Simple installation and maintenance

- ◇ RFID tracking of consumables (RO Pack included) for enhanced management
- ◇ Easy to remove consumable access cover.
- ◇ Automatic RO membrane cleaning cycles (Cl₂ and pH cleaning)

Low running cost

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

Reliable water quality & stable system performance

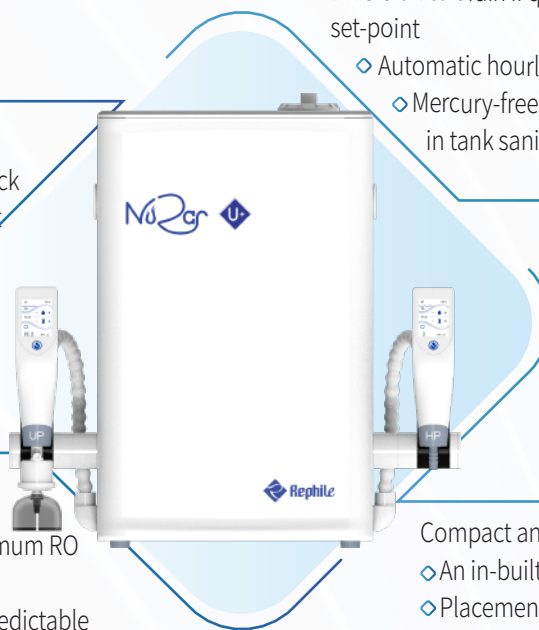
- ◇ Stable RO permeability over a wide range of temperatures
- ◇ Diversion to drain if quality of RO permeate falls below a pre-set set-point
- ◇ Automatic hourly recirculation of ultrapure water
- ◇ Mercury-free germicidal UVC LED lamp preinstalled in tank sanitation module

Data traceability

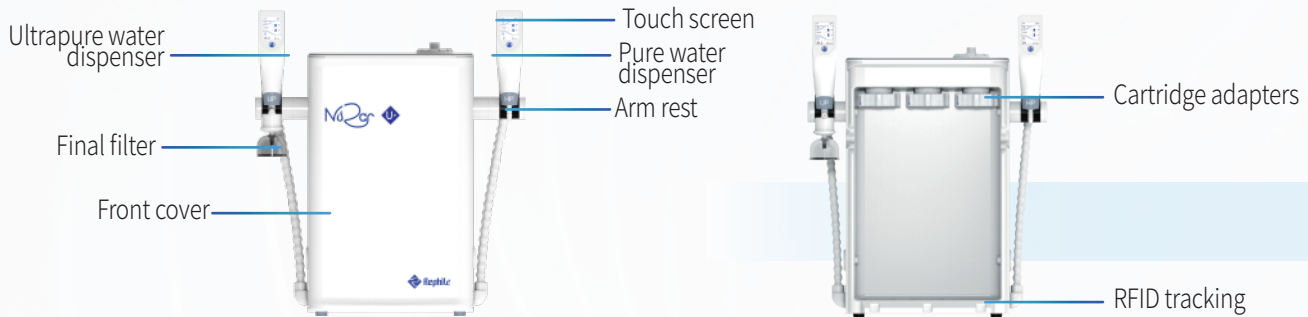
- ◇ Automatic data backup for up to 2 years
- ◇ Easy data transfer through multiple interfaces, such as LAN, USB, etc.

Compact and small footprint

- ◇ An in-built single pretreatment P Pack
- ◇ Placement flexibility - on the bench, under the bench or wall-mounted
- ◇ All-in-one design. Space-Saver



Components & Parts



Cartridges

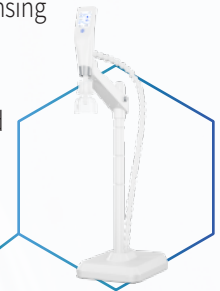
- ◇ Optimized flow design to improve water quality stability & efficiency of polishing resins
- ◇ High pressure rated housings, proprietary sealing, and double O-ring design ensures operational confidence
- ◇ Cartridge color, label, and RFID recognition prevent incorrect installation



Ergonomic dispenser with 2.4" color touch screen

- ◇ Two dispenser heights for the ultimate in flexibility
- ◇ 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 remote dispensers for NuZar U+ Extended
- 3-meter away from the system
- Height-adjustable
- 360 degree rotatable



Storage Tank

- ◇ A 10 L integrated HDPE tank equipped with a sanitization module featuring a mercury-free germicidal UVC LED lamp (peak emission wavelength at 265 nm)
- ◇ Extendable to 30/60/100/350 L (with a mercury-free tank sanitization module)

Water Quality Compliance

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

Quality of high DI water meets or exceeds ASTM, CLSI, CAP and ISO Type II water standards

and also complies with the Purified Water requirements from the European and U.S. Pharmacopoeia.

The system is manufactured in our production facility registered by ISO 9001, ISO 14001, ISO 45001 and ISO 50001. It is CE/RoHS certified.

Main Application

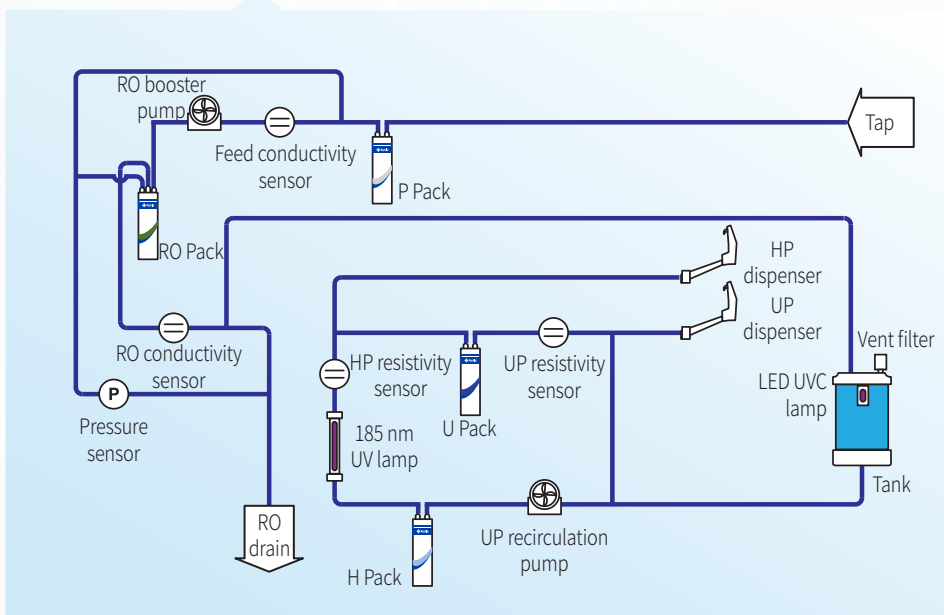
Ultrapure water

- 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.

DI water

- Preparation of chemical and bio-reagents
- Preparation of culture media / buffer
- Water supply for clinical analyzers
- Medical device and equipment rinsing
- For serum and blood fractionation
- Water supply for ultrapure water systems

Flow Schematics

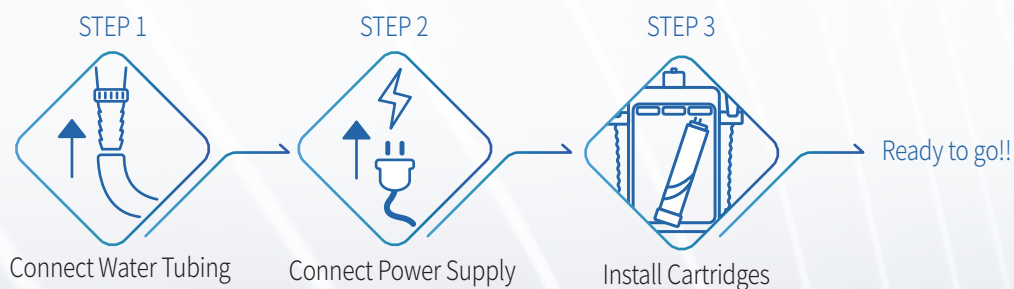


Rephile NuZar systems incorporate advanced technologies and optimized flow paths to ensure exceptional water quality for customers' applications.

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.

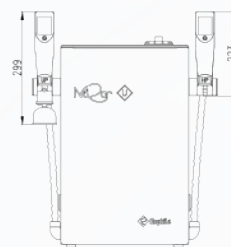
Installation Information

Plug-N-Play with only 3 steps



Ordering Info

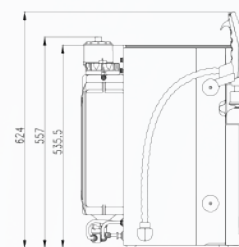
Description	Cat. No.
NuZar water system, U+ 24 set	RNHU02000K
NuZar water system, U+ 24 set, with 10L tank	RNHU0200TK
NuZar water system, U+ 45 set	RNHU04000K
NuZar water system, U+ 45 set, with 10L tank	RNHU0400TK
NuZar water system, U+ 24 Extended set	RNHUP2000K
NuZar water system, U+ 24 Extended set, with 10L tank	RNHUP200TK
NuZar water system, U+ 45 Extended set	RNHUP4000K
NuZar water system, U+ 45 Extended set, with 10L tank	RNHUP400TK



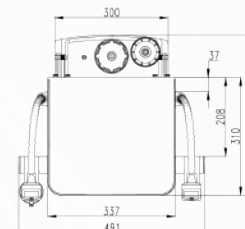
Front view

Specifications

General Specifications		NuZar U+
Operating voltage		24 VDC
Input voltage		100 - 240 VAC
Main system power		< 190 W
Feed water requirements		
Feed water conductivity / TDS		Tap water < 2000 $\mu\text{S}/\text{cm}$ / < 1000 ppm
Feed water pressure		1 - 6 bar (15 - 90 psi)
Operating temperature		5 - 35 °C
Product water type		Ultrapure & DI
Dimensions W x D x H	with 10 L tank	491 x 422 x 624 mm (19.3 x 16.6 x 24.5 in)
	w/o 10 L tank	491 x 310 x 624 mm (19.3 x 12.2 x 24.5 in)
Weight (Approximate)	net	21 kg
	gross	30 kg



Side view



Top view

Product water Specifications

● Ultrapure water

Dispenser rate	Up to 2 L/min
Resistivity (@25°C)	18.2 M Ω · cm
TOC	< 5 ppb*
Particles	No particles with size > 0.2 μm **
Microorganisms	< 0.001 cfu/ml**
Pyrogens (Endotoxins)	< 0.001 Eu/ml***
RNase	< 0.5 pg/ml***
DNase	< 10 pg/ml***

● DI water

Dispenser rate (@25°C)	Up to 2 L/min
Resistivity (@25°C)	> 1 M Ω · cm
RO rejection	< 3 ppb

*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

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Literature: RFPR1892606