

NuZar U Lite

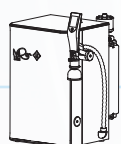
Water Purification System

Tap water to ultrapure water & RO water

U

NuZar U Lite water system set is a lab water purification system, producing ultrapure water and RO water directly from tap water. One ultrapure water (UP) dispenser is provided in the set to deliver product water with effortless adjustment.

Tap water



Ultrapure water (Type I)

Key Features

Reliable water quality & stable system performance

- ◇ Stable RO production rate over a wide range of temperatures
- ◇ Automatic flushing if quality of RO permeate falls below set-point
- ◇ Automatic hourly ultrapure water recirculation

Simple installation and maintenance

- ◇ Easy to remove front cover to access consumables
- ◇ Automatic RO membrane cleaning cycles (Cl₂ and pH cleaning)

Compact and small footprint

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

Data traceability

- ◇ Automatic data backup for up to 2 years
- ◇ Easy data transfer via USB.

Low running cost

- ◇ Highly-efficient cartridges

Just Enough for Your Needs!

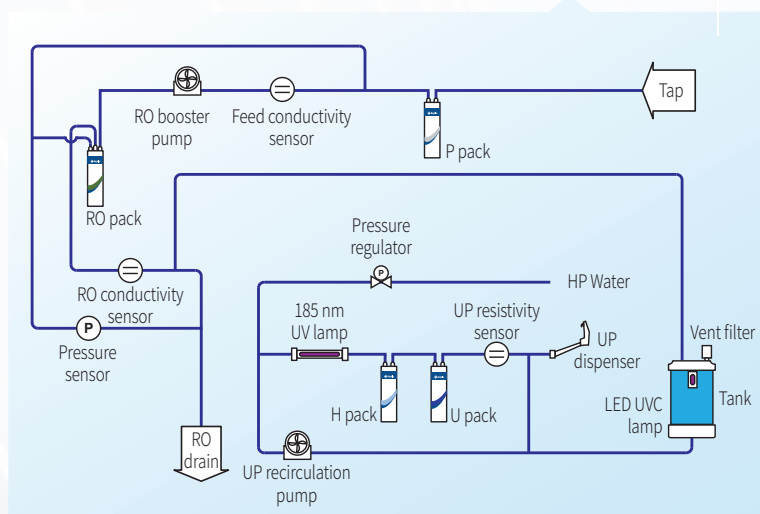


Main Applications

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

- 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



Water Quality Compliance

Quality of ultrapure water meets or exceeds ASTM, CLSI, CAP and ISO Type I water standards.
Systems are manufactured in Rephile's ISO 9001:2015 & ISO 14001:2015 certified facility, and CE marked.

Components & Parts

Cartridges - P Pack, RO Pack, H Pack, U Pack



- 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

Ergonomic dispenser with 2.4" color touch screen & a 0.2 µm final filter



- Intuitive display - water quality, volumetric dispensing and flow rate & alerts and alarms
- Options of final filter: RephiBio or final filters of other brands



Two dispenser heights for the ultimate in flexibility

10 L integrated HDPE storage tank with sanitization module



- Mercury-free germicidal UVC LED lamp (peak emission wavelength at 265 nm) preinstalled in the sanitization module



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

Specifications

General Specifications		NuZar U Lite
Operating voltage		24 VDC
Input voltage		100 - 240 VAC \pm 10%
Main system power		< 100 W
Feed Water Requirements		Tap water
Feed water conductivity		< 2000 μ S/cm
Feed water TDS		< 1000 ppm
Operating temperature		5 – 35 °C
Feed water pressure		1 – 6 bar (15 – 90 psi)
Product Water Type		Ultrapure water
Dimensions W x D x H	w/ integrated tank	414 x 422 x 624 mm (16.3 x 16.6 x 24.5 in)
Weight (Approximate)	net	20 kg
	gross	29 kg

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 > 0.22 μ m**
Microorganisms	< 0.01 cfu/ml**
Pyrogens (endotoxins)	< 0.001 Eu/ml***
RNase	< 0.5 pg/ml***
DNase	< 10 pg/ml***
RO rejection	97 to 98% ionic rejection (new RO cartridge) > 99% organic rejection > 99% particulates & bacteria rejection

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

**with a 0.2 μ m final filter

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

Ordering Info

Description	Cat. No.
NuZar water system set, U Lite	RNLU020T1K

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