

NuZar C24

Clinical Feed Water System

Tap water to clinical laboratory reagent water (24 L/h)





Water purity is of great importance in all aspects of clinical analyzer operation including diagnostics, sophisticated testing and device washing. The purpose-built NuZar C clinical water system is developed by combining proven water purification technologies, advanced control and monitoring functions to consistently feed analyzers with reliable clinical grade pure water generated directly from tap water. The pure water quality fulfills the critical needs within the clinical laboratory, in compliance with CLSI Clinical Laboratory Reagent Water (CLRW) quantitative specifications.

NuZar C24 is a good match for bench top clinical analyzers or multiple analyzers located throughout a clinical laboratory on a distribution loop system, daily pure water supply up to 500 liters.

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



A compact and reliable solution for clinical analyzers

Key Features

Stable and reliable system performance for uninterrupted pure water supply

- Optimized work flow sequence
- Comprehensive quality monitoring management after every purification stage with precisely controlled levels of purity
- ◆ Stable RO permeability over a wide range of temperatures
- Easy data traceability with automatic performance data backup for up to 2 years
- Mercury-free germicidal UVC LED lamp preinstalled in tank sanitation module

Straight Forward Operation

- Simple installation and maintenance with options to meet specific requirements of different analyzers, requiring no tools or experience
- ◇ RFID tracking of consumables (RO Pack included) for enhanced management
- Easy replacement of consumables- direct access from the front cover & guick-fit connections

Bacterial control

◆A 0.22 um membrane filter (2.5 in) or an ultrafiltration filter can be used at the analyzer inlet to reduce the bacterial contamination risk

Cost-effectiveness

- Highly-efficient cartridges
- Environmentally friendly with high recovery rate
- •RFID record of lifetime of consumables for predictable replacements to avoid any unnecessary running costs
- Self-maintenance functions for maximum RO membrane effectiveness and lifetime

Fully integrated system with maximum installation flexibilities

- ○Bench-mountable or wall-mountable
- ◆Two dispenser heights







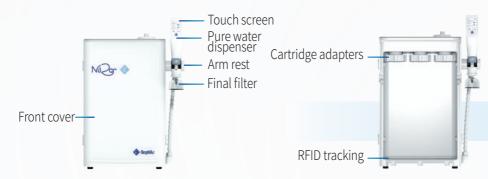








Components & Parts





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

- 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.
- Ohoice of final filters: RephiBio and 0.2 μm final filter







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 NuZar C24 product water meets clinical laboratory reagent water (CLRW) standards that complies with the CLSI® guideline.

Clinical Laboratory Reagent Water (CLRW) specification		
Resistivity	> 10 MΩ·cm	
Total Organic Carbon (TOC)	< 500 ppb	
Bacteria	<10 CFU/ml	
Particles	0.2 μm filtration or better	



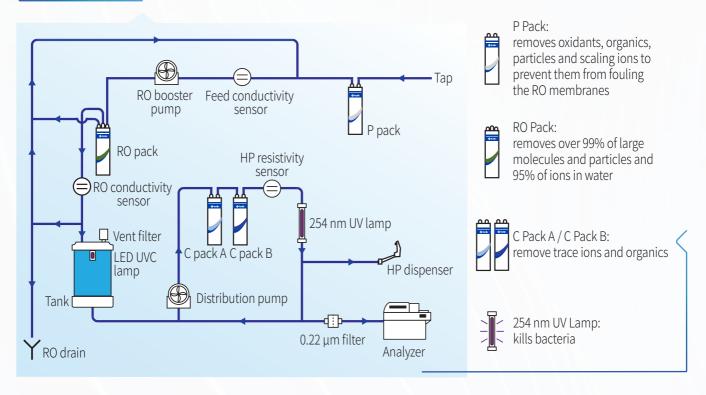
Main Application

Purified water generated by NuZar C can be used for almost all processes of a clinical analyzer, including:

- Dilution of clinical reagents, samples and detergents
- Automatic medical device and equipment rinsing
- Reaction cuvettes cleaning
- Feeding washing stations for probe tips and stirrer paddles
- Temperature controlled Incubator baths
- An interface between syringe and sample

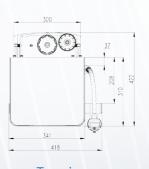


| Flow Schematics



Installation Information





Top view



Specifications

General Specifications		NuZar C		
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		CLRW 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	net	20 kg		
(Approximate)	gross	29 kg		

Product water Specifications		
Pure water		
Production rate (@25°C	24 L/hr	
Dispenser rate	Up to 2 L/min	
RO rejection	97 to 98% ionic rejection (new RO cartridge) > 99% organic rejection > 99% particulates & bacteria rejection	
Resistivity (@25°C)	>10 MΩ·cm (Typically >16 MΩ·cm)	
TOC	< 30 ppb	
Particles	No Particles with size > 0.22 μm*	
Silica	< 5 μg/L	
Bacteria	< 1 CFU/ml	

^{*} With 0.2 μm filters

Ordering Info

Description	Cat. No.
Nu7ar water system set C24	RN0C020T1K



RephiLe Bioscience, Ltd.

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Plug-N-Play with only 3 steps

