

NuZar C-DI

Clinical Feed Water System

C_{DI}

Pure water to clinical laboratory reagent water

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-DI 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 from pure water. The product water quality fulfills the critical needs within the clinical laboratory, in compliance with CLSI Clinical Laboratory Reagent Water (CLRW) quantitative specifications.

Using pure water from any central water system as the feed, NuZar C-DI is a right match for bench top clinical analyzers or multiple analyzers located throughout a clinical laboratory on a distribution loop system.

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
- ◆ Easy data traceability with automatic performance data backup for up to 2 years

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 for enhanced management
- ◆ Easy replacement of consumables- direct access from the front cover & quick-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

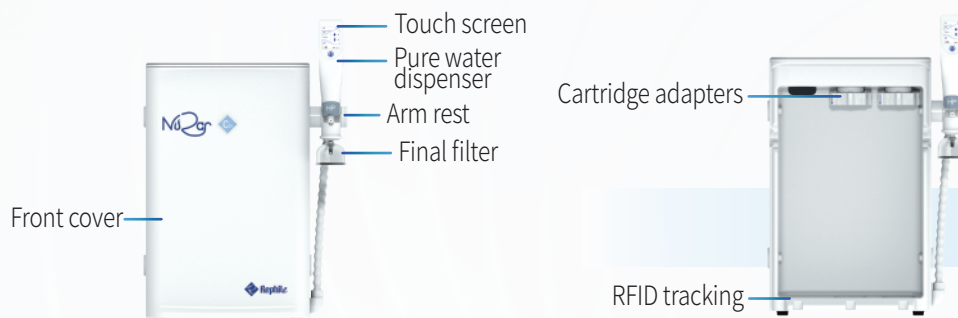
- ◆ Highly-efficient cartridges
- ◆ Environmentally friendly with high recovery rate
- ◆ RFID record of lifetime of consumables for predictable replacements to avoid any unnecessary running costs

Fully integrated system with maximum installation flexibilities

- ◆ On the bench or wall-mounted
- ◆ 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
- Choice of final filters: RephiBio and 0.2 μ m final filter



Two dispenser heights for the ultimate in flexibility



Water Quality Compliance

Quality of NuZar C-DI product water meets clinical laboratory reagent water (CLRW) standards that complies with the CLSI® guideline.

Clinical Laboratory Reagent Water (CLRW) specifications

Resistivity	> 10 M Ω · cm
Total Organic Carbon (TOC)	< 500 ppb
Bacteria	<10 CFU/ml
Particles	0.2 μ m filtration or better

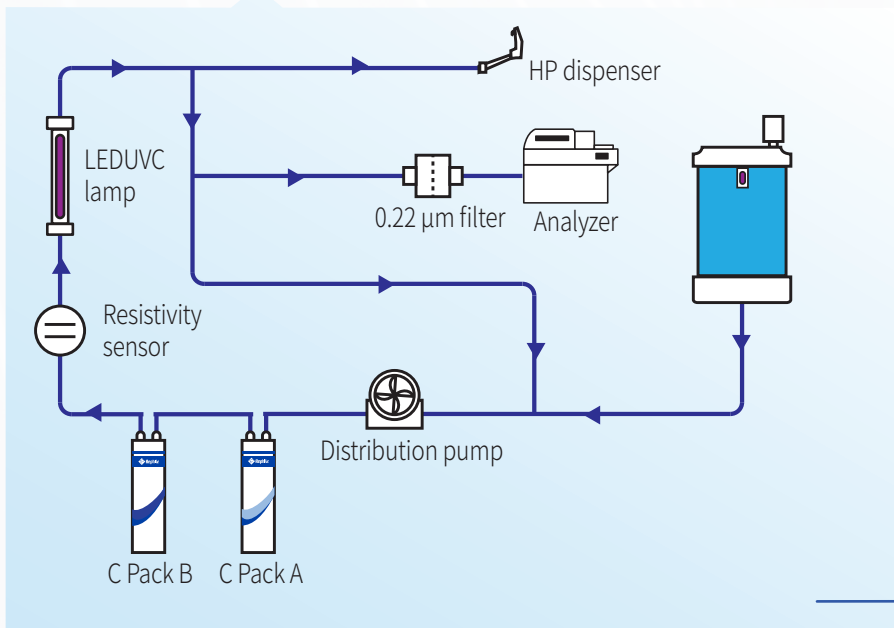
Main Application

Purified water generated by NuZar C-DI 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

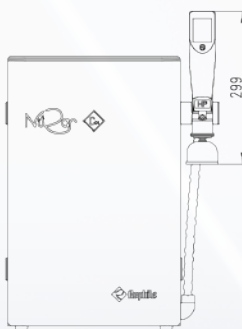


C Pack A / C Pack B:
remove trace ions and organics

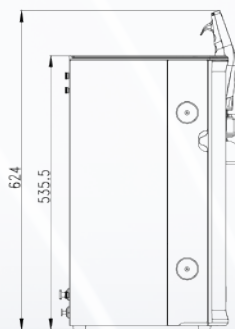


LED UVC Lamp:
kills bacteria

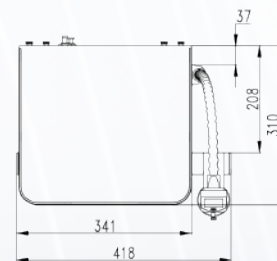
Installation Information



Front view



Side view



Top view

Specifications

General Specifications		NuZar C-DI
Operating voltage		24 VDC
Input voltage		100 - 240 VAC
Main system power		< 190 W
Feed water requirements		
Feed water		EDI water RO water Distilled water Deionized water
Operating temperature		5 – 35 °C
Feed water pressure		0 - 1 bar (0 - 15 psi)*
Product water type		CLRW water
Dimensions W x D x H		418 x 310 x 624 mm (16.5 x 12.2 x 24.5 in)
Weight (Approximate)	net	18 kg
	gross	27 kg

*It's recommended to use a pressure regulator if feed water pressure is above 15 psi (1 bar)

Product water Specifications	
● Pure water	
Dispenser rate	Up to 2 L/min
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.
NuZar water system set, C-DI	RN0CD0000K



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Plug-N-Play with only 3 steps

