stakpure OmniaLab 20^{ED}

The large one for H_2O pure type ASTM II

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OmniaLab^{ED} is the system of choice when pure water is required for the complete laboratory supply. The system meets international water standards such as ASTM, ISO 3696, CLSI and is economically maximised through the combination with continuous self-regenerating electro-deionisation, In addition, the OmniaLab^{ED} system holds 100 litres of ASTM II pure water in a storage tank with quality recirculation for withdrawal. The flexible positioning of the reprocessing modules allows the OmniaLab^{ED} to be used as a tower unit, mobile on castors or space-saving in a laboratory base cabinet. OmniaLab^{ED} is predestined for supplying autoclaves or laboratory dishwashers and ultrapure water systems.
The Optifill^{touch} dispenser integrated as standard is an all-rounder. The ergonomic shape allows all quality parameters to be operated and monitored with one hand.

Features

- √ Constant pure water quality ASTM II
- √ Continuous residual desalination by means of electro-deionisation
- √ 100 litre tank with recirculation + pressure outlet
- √ Optifill^{touch} dispenser as standard
  - OneHandOperation dispenser
  - Colour touch display with intuitive menu navigation
  - removable & ergonomically shaped
  - Can be swivelled up to 170 degrees and 80 cm removal radius
- √ Simple and economical filter change
- √ Residual capacity indicator for the filter cartridges
- √ USB interface for data transfer / output
- √ Ready-to-connect delivery incl. all filter inserts
- √ Leakage sensor as standard

System structure - standard

- √ Compact housing with easily accessible operating & service covers simple change of consumables within seconds
- √ Wide-range power supply unit with automatic voltage adjustment to 48 V enables international use with only one power supply unit
- √ 2 x low-noise Long Life pressure & recirculation pump (< 40dB) for the complete recirculation of all parts in contact with the media up to the dispenser tip
- √ High-performance reverse osmosis modules for the retention of inorganic and organic substances - extremely powerful
- √ Electro-deionisation module for continuous and economical resin regeneration without the addition of chemicals
- √ Optional UV unit with a wavelength of 254 nm for microbial purity
- √ Ultra-pure treatment set for the removal of organic substances and inorganic ions
- √ Pure water tank with a volume of 100 litres and conical bottom outlet as well as pressure outlet for connecting downstream laboratory equipment
- √ CO_2 absorber, sterile tank ventilation filter and sterile tank overflow protect against contamination by airborne germs and carbon dioxide
- √ Recirculation module for complete tank recirculation protects against standstill contamination and guarantees pure water without loss of quality
- √ Quality flush valve for complete disinfection of all wetted parts and quality flushing in interval mode
- √ Optifill[touch] dispenser with optional microfiltration for sterile ultrapure water withdrawal directly at the point of use
- √ Multilingual menu navigation for controlling and monitoring all operating and performance parameters

Microprocessor control

- √ Multilingual microprocessor control with touch display to show all operating and performance parameters in real time
- √ Individual setting options for conductivity display in MΩxcm or µS/cm as well as language switching
- √ Multi-stage conductivity & temperature monitoring for pure & ultrapure water, temperature-compensated with infinitely variable limit value setting
- √ USP-compliant and highly precise thanks to automatic calibration before each measurement with integrated reference resistor and switchable temperature compensation
- √ Permanent monitoring of the UV unit (optional) and leakage monitoring with error display and automatic safety shut-off of the water supply
- √ Disinfection menu for easy and convenient disinfection of all parts in contact with the media guarantees microbial purity
- √ Precise dispensing at the touch of a button via an individually and infinitely adjustable volume dosage in the ml range - from 0.05 litres to 25 litres
- √ USB interface for password-protected data output and data transfer of software updates, as well as RS 232

Feed water requirements

Feed water quality	Drinking water according to DIN 2000
Feed water temperature	+2°C up to 35°
Feed water pressure	1 to 6 bar
Conductivity at 25°	< 2000 µS/cm*
Blockage index (SDI), or fouling index (FI)	< 5**
Dissolved CO2	< 30 ppm
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Free chlorine	< 0.1 ppm
TOC value	< 2 ppm
Hardness [as CaCO3]*	< 300 ppm
Iron/manganese	< 0.05 mg/l
Silicic acid	< 30 ppm
pH range	4 to 10

*Feed water with high conductivity can reduce the service life of the cartridges and minimise the conductivity of Increase type III water. If the conductivity is between 800-2000 µS/cm, we recommend using a water softener

**with an SDI/FI between 3-5 a pre-treatment must be used

Pure water values type II (tank outlet)

Pure water conductivity	10-1 MΩxcm - 0.1 - 1 µS/cm*
Pure water output at 15°C	20 l/h
Integrated booster pump	100 l/h - 2 bar
TOC value	< 30 ppb
Silicate retention*	> 99%
Typical applications	Buffer and media preparation Power supply for autoclaves and laboratory dishwashers

*depending on the feed water quality and CO_2

Ultrapure water values type II (manual sampling)

Pure water conductivity	15-10 MΩxcm – 0,067 -0,1 µS/cm*
Extraction capacity	up to 2.0 l/min.
TOC value	< 30 ppb
Particle content	< 1/ml**
Bacteria content	< 0.01 CFU/ml**
Typical applications	Buffer and media preparation Rinsing laboratory glassware

*Depending on the feed water and regular disinfection

**with 0.2 µm sterile filter capsule 19100300 or bio final filter 19102100

Technical data

Ambient temperature	+2 to 35°C
Supply voltage	90-240 Volt / 50-60 Hz
Total connected load	250 watts
Connection size	R ¾
Tower dimensions with dispenser	W 511 x D 575 x H 1520 mm
Tank as under-sink version:	W 511 x D 575 x H 800 mm
Weight	44 kg

Article number:

OmniaLab20ED	18710021

Accessories

System separator ST 20 FK4 Compact	25015000
Softener WEA 32 Compact	16127200
Pre-treatment unit 5 µm + activated carbon	19200022
Disinfection cartridge Omnia	19200056
Disinfectant Omnia-1 pc./pkg.	19200057
Disinfection kit Omnia	19200058
UV tank disinfection unit Omnia 254 - 16 watts	19200050
UV flow-through disinfection 254 nm	19200051
Docking tank volume 100 litres	19200100
External booster pump 2 m³/h - 3.5 bar	16561201

Consumables

Replacement pre-filter cartridge 5 µm + activated carbon	16520100
RO cartridge OmniaLab 20	19200011
Sterile filter capsule 0.2 µm	19100300
Bio final filter	19102100
Sterile tank ventilation + CO2 absorber 30-100 litre tank	19500200
Sterile tank ventilation filter 100-500 l tank	16552200
Replacement UV lamp for tank disinfection 254	19200053
Replacement UV lamp Omnia 254	19200054