

stakpure OmniaLab 40^{ED}

The large one for H₂O pure type ASTM II

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

stakpure

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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
- √ CO₂ 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 CO ₂ | < 30 ppm |
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| Free chlorine | < 0.1 ppm |
| TOC value | < 2 ppm |
| Hardness [as CaCO ₃]* | < 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

| | |
|---------------------------|---|
| Pure water conductivity | 10-1 MΩxcm - 0.1 - 1 µS/cm* |
| Pure water output at 15°C | 40 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 CO₂

Ultrapure water values type II

| | |
|-------------------------|--|
| 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 $\frac{3}{4}$ |
| 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:

| | |
|--------------|----------|
| OmniaLab40ED | 18710041 |
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Accessories

| | |
|---|----------|
| System separator ST 20 FK4 Compact | 25015000 |
| Softener WEA 32 Compact | 16127200 |
| Pre-treatment unit 5 μ m + 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 m ³ /h - 3.5 bar | 16561201 |

Consumables

| | |
|---|----------|
| Replacement pre-filter cartridge 5 μ m + activated carbon | 16520100 |
| RO cartridge OmniaLab 40 | 19200012 |
| Sterile filter capsule 0.2 μ m | 19100300 |
| Bio final filter | 19102100 |
| Sterile tank ventilation + CO ₂ 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 |