

## stakpure OmniaLab 20ED+ UV-TOC

The big one. For H<sub>2</sub>O pure type ASTM I + II

This producer of both pure and ultrapure water is the system of choice for complete fulfilment of your complete laboratory requirements for these two water types. The system is compactly sized, extremely flexible and the water it supplies complies with international water standards such as ASTM, ISO 3696 and CLSI.

The standardly integrated Optifill<sup>touch</sup> dispenser is a jack-of-all-trades. It is so ergonomically shaped that it enables one-handed use, not only for system operation but also for the monitoring of all quality parameters.

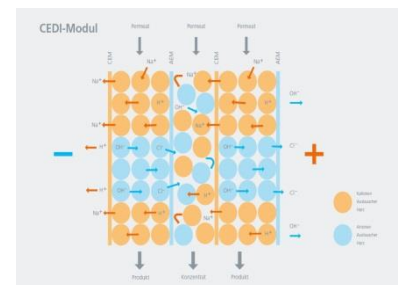
According to how scarce your laboratory space is, you can choose between a tower-unit on mobile rollers and a space-saving version that fits in a laboratory base cabinet.

The need-filling combination of ultra-modern purification technologies enables this single system to dispense both pure and ultrapure water.

# stakpure

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## Features

- ✓ Reliable ASTM I + II pure and ultrapure water quality
- ✓ Continuous residual salts removal by electro-deionization
- ✓ Quality recirculation that guarantees microbial purity
- ✓ Optifill<sup>touch</sup> dispenser as standard
  - enables one handed dispenser operation
  - Colour-touch-display with intuitive menu navigation
  - is detachable and ergonomically shaped
  - can be turned by 170 degrees / 80 cm in diameter and is height adjustable
- ✓ Replacement of spent materials takes only a few seconds
- ✓ Clear view of controls with graphic display
- ✓ Leak sensor is included as standard



## Standard system components

- √ Compact housing with easily accessible operating and service hood that enables simple replacement of spent material in a few seconds
- √ Wide-range power supply unit with automatic adjustment to 48 V that can be internationally used.
- √ Two quiet running, long life pressure & recirculation pumps (< 40dB) for complete recirculation through all parts that contact medium right up to the dispenser tip
- √ High performance reverse osmosis module that effectively retains inorganic and organic contents
- √ Electro-deionization module that continually and economically carries out resin regeneration without any addition of chemicals
- √ UV flow-through disinfectant with a wavelength of 185/254 nm for highest microbial demands and TOC reduction
- √ Purified water container with 100 l volume and conical bottom run-out, together with a pressure outlet for connection to attached downstream equipment
- √ CO<sub>2</sub>-Absorber, sterile tank venting filter and sterile tank overflow that prevent contamination by airborne microorganisms and carbon dioxide
- √ Recirculation module for complete tank recirculation as protection against bacterial growth during downtimes that guarantees no loss of quality of the purified water
- √ Ultrapure purification set for removal of traces of inorganic substances and any remaining ions
- √ Quality rinse valve for the complete disinfection of all parts that contact media as well as for quality rinsing in interval mode
- √ OptiFill<sup>ouch</sup> dispenser with adapted microfiltration that ensures sterile ultrapure water dispensing directly at the point of use
- √ Multi-language microprocessor for the control and monitoring of all operation and performance parameters

## Options

- √ Ultrafiltration for the removal of pyrogens/endotoxins and nucleases
- √ UV immersion pipe system for automatic and continuous disinfection of the purified water tank for guaranteed microbial cleanliness
- √ Bio end filter for reliable retention of endotoxins, DNase, RNase and bacteria

## Microprocessor control

- √ Multi-lingual microprocessor control with touch display, consumption and error display
- √ Individual setting possibilities for conductivity indication in  $M\Omega \times cm$  or  $\mu S/cm$  and language (German / English / French)
- √ Multi-level conductivity and temperature monitoring for pure and purified water, temperature compensation with continuously adjustable limiting value setting
- √ Real time TOC monitoring for continuous TOC measurement of organic content according to USP
- √ Automatic matching to an integrated reference resistance prior to each measurement ensures USP-conformity and high precision, plus possible switch-off of temperature compensation
- √ Permanent monitoring of the UV unit and leak monitoring with display of faults and automatic safety feedwater cut-off
- √ Automatic disinfection menu for easy and convenient disinfection of all parts that contact media for guaranteed microbial purity
- √ Individually adjustable and precise dispensing by push button via automatic and pre-adjusted dispensing volume of all common sizes.



## Feedwater requirements

Drinking water according to DIN 2000

Feedwater temperature	+2°C to 35°
Feedwater pressure	2 to 6 bar
Manganese and iron content	< 0.05 mg/l
Free chlorine content	< 1 mg/l
Silt density index (SDI)	max. 3

### Type II pure water (Tank outlet)

Pure water conductivity	10-1 $M\Omega \times cm$ – 0.1 - 1.0 $\mu S/cm$
Silicate retention	> 99%
Pure water performance at 15°C	20 l/h
Typical applications	Buffers and media preparation Rinsing of laboratory glass Feed-water for autoclaves and laboratory washers

## Type I ultrapure water

(Hand dispensing)

Ultrapure water conductivity	18.2 MΩxcm – 0.055 μS/cm
Dispensing performance	up to 2 l/min.
TOC value	1 - 5 ppb
Particle content	< 1 particulate/ml
Endotoxins	<0.001 EU/ml (with Bio filter / ultrafilter)
Rnases:	<0.01 ng/ml (with Bio filter / ultrafilter)
Dnase:	<4 pg/ul (with Bio filter / ultrafilter)
Bacteria content	< 0.01 CFU/ml**
Typical applications	GF-AAS, IC, ICP, ICP-MS, HPLC Cell and tissue cultures for molecular biology and microbiology

\*Dependent on the feed-water and regular disinfection

\*\* with 0.2μm 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	0.25 kW
Inlet/rinsing/concentrate connector	d8 mm
Tank outlet connector	d8 and d22 mm
Dimensions of tower with dispenser	W 511 x D 575 x H 1550-1650 mm
Tank version for base cabinet	W 511 x D 575 x H 800 mm
Weight	65 kg

## Article number

18710025 Main system OmniaLab<sup>20ED+</sup> UV-TOC

**Accessories/Consumable material**

16127200	Water softener WEA 32 Compact
16200000	Salt tablets for softener - 25kg
19200022	Pre-treatment unit OmniaLab 10" incl. combi cartridge 5µm + activated carbon
16520100	Combi cartridge 10" - pore size 5 µm + activated carbon (replacement filter for pre-treatment unit 10" - 19200022)
19200003	Ultra-pure water cartridge Omnia 055
19200004	Pure water cartridge Omnia 067
19200011	RO - cartridge Omnia 20 - 2pcs.
19100300	Sterile filter capsule 0.2 µm
19102100	Bio filter capsule 0.1 µm – positive charged
19102200	Ultrafilter capsule - Final filter for cell culture media and ultra-trace analysis
19200050	UV Tank disinfecting unit
19200053	Replacement UV-lamp for tank disinfection (Replacement for Art. No. 19200050)
19200055	Replacement UV-lamp for TOC reduction 185/254 nm
16561201	Pump station PST 3000 SC 2 m <sup>3</sup> /h at 35 m - R 1" Qmax. 4 m <sup>3</sup> /h - Hmax. 45 m