stakpure OmniaLab^{40ED}

The big one. For H_2O pure types ASTM I + II

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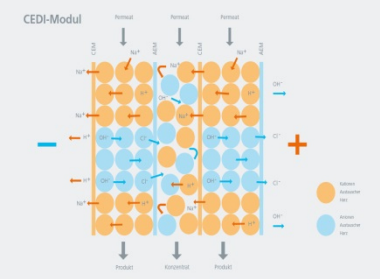
This producer of both pure and ultrapure water is the system of choice for complete fulfilment of your complete laboratory requirements for these two water types. The system is compactly sized, extremely flexible and the water it supplies complies with international water standards such as ASTM, ISO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

The standardly integrated OptiFill 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.

NEW!



Features

- √ Reliable ASTM I + II pure and ultra pure water quality
- √ Continuous residual salts removal by electro-deionization
- √ Quality recirculation that guarantees microbial purity
- √ The standardly supplied OptiFill dispenser :
  - enables one-handed dispenser operation
  - can be detached and is ergonomically shaped
  - can be turned and is height adjustable
- √ Programmable volume dispensing
- √ Replacement of spent materials takes only a few seconds
- √ Clear view of controls with graphic display
- √ Leak sensor is standardly included

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
- √ Purified water container with 100 l volume and conical bottom run-out, together with a pressure outlet for connection to attached downstream equipment
- √ CO_2-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 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

- √ UV flow-through disinfector with a wavelength of 185/254 nm for highest microbial demands and TOC reduction
- √ UV immersion pipe system for automatic and continuous disinfection of the purified water tank for guaranteed microbial cleanliness
- √ Bio endfilter for reliable retention of endotoxins, DNase, RNase and bacteria

Microprocessor control

- √ Multilingual microprocessor control with graphics display and colour change from green to red when a fault message is given
- √ Individual setting possibilities for conductivity indication (MΩ x cm or µS/cm) and language (German/English)
- √ Multilevel conductivity and temperature monitoring for permeate and purified water, temperature compensation with continuously adjustable limiting value setting
- √ Automatic matching to an integrated reference resistance prior to each measurement for USP conformity and high precision plus the possibility of temperature compensation switch-off
- √ Permanente monitoring of the UV unit and leak monitoring with display of faults and automatic safety feedwater cut-off
- √ Exact and continuously variably dispensing from 0.1 to 60 litres allows convenient and reliable filling of laboratory vessels
- √ GLP conform data acquisition via an RS-232 interface with adjustable sending interval, date, real time clock and serial number

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

Typ I ultrapure water (Hand dispensing)

Ultrapure water conductivity	18.2 MΩxcm – 0.055 µS/cm	
Dispensing performance	up to 2 l/min.	
Programmable volume dispensing	0.1 to 60 l	
TOC value	1 - 5 ppb	(with UV-unit)
Endotoxins	0.001 EU/ml	(with Bio filter)
Particles and bacteria content	< 1 CFU/ml	(with sterile filter)
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

Type II pure water (Tank outlet)

Pure water conductivity	15-10 MΩ x cm – 0.067-0.1 µS/cm
Silicate retention	> 99%
Pure water performance at 15°C	40 l/h
Typical applications	Buffers and media preparation
	Rinsing of laboratory glass
	Feed-water for autoclaves and laboratory washers

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

18700040	Main system OmniaLab^{40ED}

Accessories/Consumable material

19200020	Pretreatment unit OmniaLab - 10"
19200003	Ultra-pure water cartridge Omnia 055
19200004	Pure water cartridge Omnia 067
19100300	Sterile filter capsule 0.2 µm
19102100	Bio filter capsule
19200050	UV Tank disinfecting unit
19200051	UV Flow through disinfection - 254
19200052	UV Unit for TOC reduction - 185
19200100	Docking tank volume 100 litres
16561200	External pressure booster pump MQ 2000
16561600	External pressure booster pump MQ 3000