

OmniaLab^{ED}

The efficient one. For H₂O pure type II.

OmniaLab^{ED} is the efficient solution when high quality pure water type II is required for the complete lab supply. It is compliant with international water standards, such as ASTM, ISO 3696, CLRW (CLSI), and the combination with continual self-regenerating electro-deionization brings maximized economy. Further to this, the OmniaLab^{ED} system holds 100 liters of pure water in a storage tank with quality recirculation, ready to supply lab equipment. OmniaLab^{ED} is the efficient one for supplying autoclaves, lab machines and ultra-pure water systems.

Features

- OptiFill^{touch} dispenser is standard
- Continuous residual salts removal by electro-deionization
- 100 litre storage tank with recirculation and pressure outlet
- Tank volume display in percent
- Tank volume can be modularly increased
- Simple, cost-effective filter replacement
- Leakage sensor is standard



One hand operation



Easy water dispensing



Flexible on a work surface



Tank fits space-savingly under the bench-top



Specifications	OmniaLab ^{ED} 20	OmniaLab ^{ED} 40
Pure water values type II		
Pure water performance l/h at 15 °C	20	40
Conductivity [µS/cm]	0.1 up to 1	0.1 up to 1
Resistance [MΩ x cm]	10 up to 1	10 up to 1
TOC value* [ppb]	< 30	< 30
Silicate removal* [%]	> 99	> 99
Dispensing performance [l/min.]	up to 2	up to 2
Individually adjustable dispensing volume [liters]	0.05 up to 25	0.05 up to 25
Particles** > 0.2 µm [1/ml]	< 1	< 1
Bacteria** [CFU/ml]	< 0.01	< 0.01
Pressure outlet pure water tank	100 l/h - 2 bar	100 l/h - 2 bar

* Depending on the quality of the feed water. CO₂ absorption and residence time in the tank can increase conductivity beyond the specified range.

** With sterile filter capsule 0.2 µm

Feedwater requirements

Tap water according to DIN 2000		
Feedwater pressure [bar]	1 up to 6	1 up to 6
Conductivity at 25 °C [µS/cm]	< 2000*	< 2000*
Colloid index SDI	< 5**	< 5**
Dissolved CO ₂ [ppm]	< 30	< 30
Free chlorine [ppm]	< 0.1	< 0.1
TOC-value [ppm]	< 2	< 2
Hardness [as CaCO ₃] [ppm]	< 1	< 1
Iron/manganese [mg/l]	< 0.05	< 0.05
Silica [ppm]	< 30	< 30
pH range	4 up to 10	4 up to 10

* Feed water with high conductivity can reduce the service life of the cartridges and increase the conductivity of type III water.

** With an SDI/FI between 3 and 5, pre-treatment must be used

Technical data

Feedwater connection	R 3/4"	R 3/4"
Electrical connection [Volt/Hz]	90–240/50–60	90–240/50–60
Connected load [kW]	0.25	0.25
Ambient temperature [°C]	4 up to 40 [Recommendation: 10 up to 25]	4 up to 40 [Recommendation: 10 up to 25]
Dimensions Tower* [W x H x D mm]	511 x 1520 x 575	511 x 1520 x 575
Dimensions Base cabinet tank [W x H x D mm]	511 x 800 x 575	511 x 800 x 575
Weight [kg]	41	41

* With OptiFill^{touch} Dispenser

Article no.	System type*	Typical applications
18710021	OmniaLab ^{ED} 20	Feedwater for autoclaves, laboratory washers and ultrapure water systems
18710041	OmniaLab ^{ED} 40	Feedwater for autoclaves, laboratory washers and ultrapure water systems

* RO cartridge, stainless steel polishing cartridge, sterile filter capsule 0.2 µm, sterile overflow and sterile vent filter + CO₂ absorber included

Accessoires

25015000	System separator ST 20 FK4 Compact
16127200	Single softener WEA 32 Compact
19200022	Pre-treatment unit 5 µm + activated carbon
19200056	Disinfection cartridge Omnia
19200057	Disinfectant Omnia – 1 Stk./Pkg.
19200058	Disinfection kit Omnia (cartridge + 1 pcs. disinfectant)
19200050	UV tank disinfection unit Omnia 254 – 16 watts
19200100	Docking tank volume 100 liters
16561201	External pump station 2 m³/h - 3.5 bar
19200062	Data printer

