OmniaLab^{ED+}

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

OmniaLab^{ED+} is the system of choice when both pure water and ultrapure water are needed for the entire laboratory. The system complies with international water standards such as ASTM, ISO 3696 and CLSI. The economy of it is maximized by the inclusion of a continuously self-regenerating electrodeionizer, without having to give any demanding analytical applications a pass. Further to this, the OmniLab^{ED+}-system holds 100 liters of pure water type II ready for withdrawal in a storage tank with quality recirculation. It is so predestined for supplying autoclaves or lab washing machines and the dispensing of type I ultra pure water for analytical and bioscience applications.

Features

- OptiFill^{touch} dispenser is standard
- Continuous residual salts removal by electro-deionization
- 100 liter 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

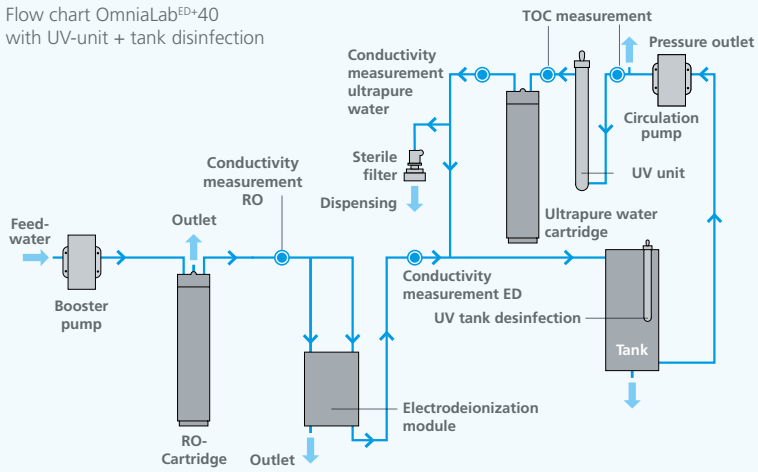
Specifications	OmniaLab^{ED+}20	OmniaLab^{ED+}20 UV-TOC	OmniaLab^{ED+}40	OmniaLab^{ED+}40 UV-TOC
Pure water values type II				
Pure water performance l/h at 15 °C	20	20	40	40
Conductivity [µS/cm]	0.1 up to 1	0.1 up to 1	0.1 up to 1	0.1 up to 1
Resistance [MΩ x cm]	10 up to 1	10 up to 1	10 up to 1	10 up to 1
Silicate removal* [%]	99.9	99.9	99.9	99.9
Pure water tank pressurized outlet	100 l/h - 2 bar	100 l/h - 2 bar	100 l/h - 2 bar	100 l/h - 2 bar
Ultrapure water values type I				
Conductivity [µS/cm]	0.055	0.055	0.055	0.055
Resistance [MΩ x cm]	18.2	18.2	18.2	18.2
TOC-value* [ppb]	< 10	< 5	< 10	< 5
TOC monitor	no	yes	no	yes
Dispensing performance dispenser [l/min.]	up to 2	up to 2	up to 2	up to 2
Individually adjustable dispensing volume [liters]	0.05 up to 25	0.05 up to 25	0.05 up to 25	0.05 up to 25
Particles** [1/ml]	< 1	< 1	< 1	< 1
Bacteria** [CFU/ml]	< 0.01	< 0.01	< 0.01	< 0.01
* Depending on the quality of the feed water	** 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	1 up to 6	1 up to 6
Conductivity at 25 °C [µS/cm]	< 2000*	< 2000*	< 2000*	< 2000*
Colloid index SDI	< 5**	< 5**	< 5**	< 5**
Dissolved CO_2 [ppm]	< 30	< 30	< 30	< 30
Free chlorine [ppm]	< 0.1	< 0.1	< 0.1	< 0.1
TOC-value [ppm]	< 2	< 2	< 2	< 2
Hardness [as $CaCO_3$] [ppm]	< 1	< 1	< 1	< 1
Free chlorine [ppm]	< 0.1	< 0.1	< 0.1	< 0.1
Iron/manganese [mg/l]	< 0.05	< 0.05	< 0.05	< 0.05
Silica [ppm]	< 30	< 30	< 30	< 30
pH range	4 up to 10	4 up to 10	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"	R 3/4"	R 3/4"
Electrical connection [Volt/Hz]	90–240/50–60	90–240/50–60	90–240/50–60	90–240/50–60
Connected load [kW]	0.25	0.25	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]	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	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	511 x 800 x 575	511 x 800 x 575
Weight [kg]	43	43	43	43
* With OptiFill^{touch} Dispenser				

Article no.	System type*	Typical applications
18710020	OmniaLab^{ED+}20	Feedwater for autoclaves and laboratory washers, analytical and life science applications
18710025	OmniaLab^{ED+}20 UV-TOC	Feedwater for autoclaves and laboratory washers, analytical and life science applications
18710040	OmniaLab^{ED+}40	Feedwater for autoclaves and laboratory washers, analytical and life science applications
18710045	OmniaLab^{ED+}40 UV-TOC	Feedwater for autoclaves and laboratory washers, analytical and life science applications

* RO cartridge, ultrapure water cartridge, sterile filter capsule 0.2 µm, sterile overflow and sterile vent filter + CO_2 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

Flow chart OmniaLab^{ED+}40 with UV-unit + tank disinfection



ED-Module