Omnia pure and ultrapure water systems

Convenient.
Compact. Adaptable.

For demanding applications in life sciences and labs,

and as supplier to analysers, autoclaves, glassware washers.

cloup

H_2O pure. Pure and ultrapure water For QC, R&D and analytical labs in science, pharmaceutics and industries.

Whether for demanding applications in life sciences and chemical analysis or for supplying analysers, autoclaves and laboratory glassware washers – with seven systems, the new stakpure Omnia series provides the ideal solution for any task and satisfies international water standards such as ASTM, ISO 3696 and CLRW (CLSI). The systems are characterized by their economy and flexibility in many applications.

OmniaTap

OmniaPure

OmniaLab^{ED+}

OmniaTap

OmniaLab^{ED+}
OmniaLab^{ED}
OmniaLab^{UP}
OmniaLab^{DS}

OmniaLab^{RO}

Water quality	**Type I ultrapure water**			**Type II pure water**		**Type III water from reverse osmosis**
daily water quantity	< 50 liter	20 – 100 liter	> 50 liter	< 50 liter	> 50 liter	> 50 liter
feedwater	tap water	pretreated water	pretreated water	tap water	pretreated water	pretreated water
applications	• AAS (Atomic Absorption Spectroscopy) • IC (Ion Chromatography) • ICP (Inductively Coupled Plasma) • ICP-MS (Inductively Coupled Plasma Mass Spectrometry) • HPLC (High-performance liquid chromatography) • HPLC + (Ultratrace Element Analysis) • Electrochemistry and Electrophoresis • TOC-Analysis • Molecular- and Microbiology • cell culture mediums			• Reagent Preparation + Sample Dilution • Buffer and media preparation • Photometry + Spectrophotometry • RIA (Radioimmunoassay) • ELISA (Enzyme-linked immunosorbent assay) • Pathology + Histology • General chemistry • Feeding of ultrapure water systems: - laboratory washers (OmniaLab) - autoclaves + sterilizers		• Feeding of ultrapure water systems: - laboratory washers - autoclaves - sterilizers - steam generator - climatic chamber

Water quality standards
For various fields of use and requirements.

International Organization for Standardization (ISO)
ISO 3696:1987 distinguishes between three degrees of purity for water for analytical purposes in laboratories.

Parameter	Grade 1	Grade 2	Grade 3
pH value at 25 °C	–	–	5.0 – 7.0
Conductivity (µS/cm at 25 °C)	0.1	1.0	5.0
Oxidizable matter, oxygen content (mg/l, max.)	–	0.08	0.4
Absorption at 254 nm and a lenght of 1 cm (absorption units, max.)	0.001	0.01	–
Residue after evaporation by heating to 110 °C (mg/kg, max.)	–	1	2
Silicon content (mg/l, max.)	0.01	0.02	–

Clinical Laboratory Standards Institute (CLSI)
This institute defined the quality requirements of water for clinical laboratories. The regulations that were valid up to 2006 (NCCL types 1, 2 and 3) but were then invalidated by the requirement that water must be suitable for the intended usage. Only the degree of purity of so-called "Clinical laboratory reagent water" (CLRW) is described.

Parameter	CLRW
Resistance	10 MΩ x cm
TOC	< 500 ppb
Bacteria	< 10 CFU/ml
Particle content	Inline 0.2 µm-filter

American Society for Testing and Materials (ASTM)
The ASTM D1193-06 (2011) deals with the requirements for chemical analyses and physical tests.

	Type	Grade	Conductivity (µS/cm), max.	Resistance (MΩ x cm), min.	pH	TOC (µg/l), max.	Sodium (µg/l), max.	Chloride (µg/l), max.	Silicon (µg/l), max.	Bacteria (CFU/ml), max.	Endotoxins (EU/ml), max.
Ultrapure Water	I*		0.056	18.0	–	50	1	1	3	–	–
	I*	A	0.056	18.0	–	50	1	1	3	10/1000	0.03
	I*	B	0.056	18.0	–	50	1	1	3	10/100	0.25
	I*	C	0.056	18.0	–	50	1	1	3	100/10	–
Pure water	II		1.0	1.0	–	50	5	5	3	–	–
	II	A	1.0	1.0	–	50	5	5	3	10/1000	0.03
	II	B	1.0	1.0	–	50	5	5	3	10/100	0.25
	II	C	1.0	1.0	–	50	5	5	3	100/10	–
Pure water	III		0.25	4.0	–	200	10	10	500	–	–
	III	A	0.25	4.0	–	200	10	10	500	10/1000	0.03
	III	B	0.25	4.0	–	200	10	10	500	10/100	0.25
	III	C	0.25	4.0	–	200	10	10	500	100/10	–
Pure water	IV		5.0	0.2	5.0 – 8.0	–	50	50	–	–	–
	IV	A	5.0	0.2	5.0 – 8.0	–	50	50	–	10/1000	0.03
	IV	B	5.0	0.2	5.0 – 8.0	–	50	50	–	10/100	0.25
	IV	C	5.0	0.2	5.0 – 8.0	–	50	50	–	100/10	–

*Using an appropriate 0,2 µm membrane filter.

Omnia
Pure and ultrapure water systems
Convenient. Compact. Adaptable.

OptiFill Dispenser is standard

The Omnia series is extremely convenient to use. All devices are fitted with the Optifill one-hand dispenser with integrated control- and monitoring unit. One-handed operation, removable, can be swivelled and height-adjusted, and with a flexible connection for easy water dispensing into any type of container.

The ergonomic shaped dispenser is easily operable.

The easily accessible control and service cover ensures that consumables can be replaced in seconds.

Separate from the production unit. The external dispenser can be space sparingly wall-fitted or flexibly placed on the lab bench.

Place the production unit under the bench to save valuable space in your lab. Match the positioning to your lab environment with the external OptiFill stand/wall dispenser and monitoring unit. Either practical on a bench or space-saving on a wall.

OmniaPure

The specialist.
For H_2O pure type I.

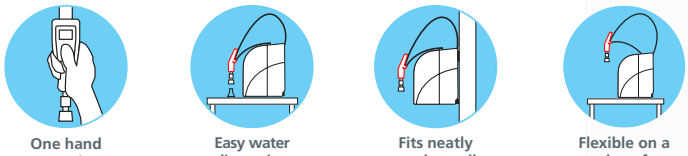
When your need is for highest quality pure water that fulfils the demands of analytical and life science laboratory requirements, then one of these OmniaPure systems type will be right for you. You can configurate it. The incorporated pre-treatment constantly ensures the reliability of your experimental results and reduces running costs.

Features

- OptiFill dispenser is standard
- Spent filters are simply and quickly changed
- Leakage sensor is standard
- Integrated pressure reducer is standard
- Precise volume control
- Ready-to-use, including filter cartridges

Dispenser on the bench

Dispenser on the wall



One hand operation

Easy water dispensing

Fits neatly on the wall

Flexible on a work surface

+ Real time TOC monitoring

Omnia pure and ultrapure water systems. Convenient. Compact. Adaptable.

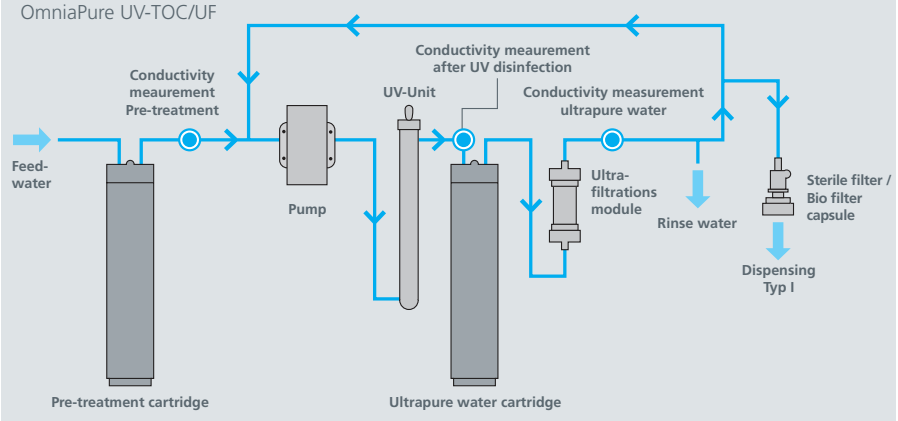
Specifications	OmniaPure	OmniaPure UV	UV-TOC	OmniaPure UV/UF	UV-TOC/UF
Type I					
Conductivity µS/cm	0.055	0.055		0.055	
Resistance MΩ x cm	18.2	18.2		18.2	
TOC-value* ppb	5–10	1–5		1–5	
TOC monitor	-	– / yes		– / yes	
Dispensing performance l/min.	up to 2	up to 2		up to 1.6	
Endotoxins* EU/ml	-	-		< 0.001	
RNase* ng/ml	-	-		< 0.01	
DNase* pg/µl	-	-		< 4	
Particles**/ml	< 1	< 1		< 1	
Bacteria** CFU/ml	< 0.1	< 0.1		< 0.1	
Feedwater requirements					
Water prepared by ion exchange, reverse osmosis, electrodionisation or distillation					
Feedwater temperature °C	+2 up to 35	+2 up to 35		+2 up to 35	
Input conductivity µS/cm	< 30	< 30		< 30	
TOC-value ppb	< 50	< 50		< 50	
Technical data					
Operating pressure bar	0.5 – 6	0.5 – 6		0.5 – 6	
Supply voltage Volt/Hz	90–240/50–60	90–240/50–60		90–240/50–60	
Connected load kW	0.1	0.1		0.1	
Connector size	3/4"	3/4"		3/4"	
Ambient temperature °C	+2 up to +35	+2 up to +35		+2 up to +35	
Dimensions*** W x H x D mm	390 x 720 x 525	390 x 720 x 525		390 x 720 x 525	
Dimensions production unit W x H x D mm	390 x 480 x 380	390 x 480 x 380		390 x 480 x 380	
Dimensions OptiFill Wall dispenser	100 x 520 x 460	100 x 520 x 460		100 x 520 x 460	
Dimensions OptiFill Bench dispenser	140 x 580 x 520	140 x 580 x 520		140 x 580 x 520	
Weight kg	19	20		20	

* in dependence on the feedwater quality ** with sterilizing filter 0.2 µm *** with OptiFill Dispenser

Article no.	System type* Standard	Article no.	System type Production unit + Wall dispenser*/**	Article no.	System type Production unit + Bench dispenser*/**	Typical applications
18200001	OmniaPure	18200011	OmniaPure-W	18200021	OmniaPure-T	AAS, IC, ICP, buffers and media preparation
18200002	OmniaPure UV	18200012	OmniaPure-W UV	18200022	OmniaPure-T UV	Ultra-trace analysis, ICP-MS, HPLC, TOC-analysis
18200003	OmniaPure UV/UF	18200013	OmniaPure-W UV/UF	18200023	OmniaPure-T UV/UF	Life science and microbiology, cell culture media
18200004	OmniaPure UV-TOC	18200014	OmniaPure-W UV-TOC	18200024	OmniaPure-T UV-TOC	Ultra-trace analysis, ICP-MS, HPLC, TOC-analysis
18200005	OmniaPure UV-TOC/UF	18200015	OmniaPure-W UV-TOC/UF	18200025	OmniaPure-T UV-TOC/UF	Life science and microbiology, cell culture media

* filter cartridges and sterile filter capsule 0.2 µm included
** The Omnia production unit can either be installed on a bench, on a wall or under the bench.

Flow chart
OmniaPure UV-TOC/UF



Accessories	
19200300	Wall mount Omnia
19200056	Disinfection kit Omnia
19200057	Disinfectant Omnia – 3 Pc./Pkg.

OmniaTap
The Allrounder.
For H_2O pure types I + II.

OmniaTap is the ideal system when both pure water and ultrapure water are required, but in relatively small amounts. The ability to provide both types from a single system results from the combination of ultramodern purification technologies. These also make it possible to connect the system directly to tap water. A press on the dispenser button activates dispensing of ultrapure water type I via the digital dispenser control. The recirculation of the pure water held in the installed 10 litre tank keeps it permanently at type II quality. The pure water tank has a second outlet for feeding downstream end users.

Features

- OptiFill dispenser is standard
- Pretreatment set for direct connection to tap water
- 10-litres pure water tank
- Tank volume display in percent
- Simple and economical filter replacement
- Leakage sensor is standard
- Ready-to-use, including filter cartridges

One hand operation

Easy water dispensing

Flexible on a work surface

Omnia pure and ultrapure water systems. Convenient. Compact. Adaptable.

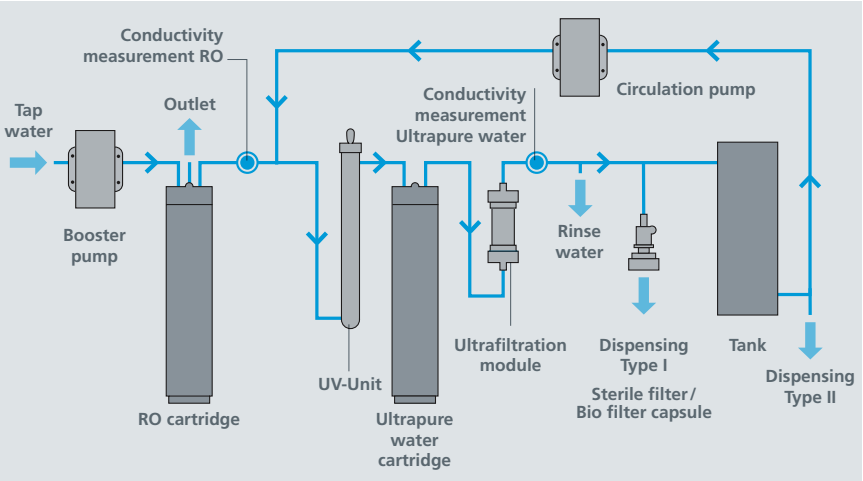
Specifications	OmniaTap	OmniaTap UV	OmniaTap UV/UF
Type II			
Pure water performance l/h at 15 °C	6 or 12	6 or 12	6 or 12
Conductivity µS/cm	0.067–0.1	0.067–0.1	0.067–0.1
Resistance MΩ x cm	15–10	15–10	15–10
Pure water tank pressurized outlet	optional	optional	optional
Type I			
Conductivity µS/cm	0.055	0.055	0.055
Resistance MΩ x cm	18.2	18.2	18.2
TOC-value* ppb	5–10	1–5	1–5
Dispensing performance l/min.	up to 2	up to 2	up to 1.6
Endotoxins* EU/ml	-	-	< 0.001
Particles**/ml	< 1	< 1	< 1
Bacteria** CFU/ml	< 0.1	< 0.1	< 0.1
Feedwater requirements			
Tap water according to DIN 2000			
Feedwater temperature °C	+2 up to 35	+2 up to 35	+2 up to 35
Manganese and iron content mg/l	< 0.05	< 0.05	< 0.05
Free chlorine content mg/l	< 0.1	< 0.1	< 0.1
Silt density index (SDI)	max. 3	max. 3	max. 3
Technical data			
Operating pressure bar	2–6	2–6	2–6
Supply voltage Volt/Hz	90–240/50–60	90–240/50–60	90–240/50–60
Connected load kW	0.1	0.1	0.1
Connector size	3/4"	3/4"	3/4"
Ambient temperature °C	+2 up to +35	+2 up to +35	+2 up to +35
Dimensions*** W x H x D mm	390 x 720 x 615	390 x 720 x 615	390 x 720 x 615
Weight kg	20	21	21

* in dependence on the feedwater quality ** with sterilizing filter 0.2 µm *** with OptiFill Dispenser

Article no.	System type*	Typical applications
18200051	OmniaTap 6	AAS, IC, ICP, buffers and media preparation
18200101	OmniaTap 12	AAS, IC, ICP, buffers and media preparation
18200052	OmniaTap 6 UV	Ultra-trace analysis, ICP-MS, HPLC, TOC
18200102	OmniaTap 12 UV	Ultra-trace analysis, ICP-MS, HPLC, TOC
18200053	OmniaTap 6 UV/UF	Life science and microbiology, cell culture media
18200103	OmniaTap 12 UV/UF	Life science and microbiology, cell culture media

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

Accessories	
19200300	Wall mount Omnia
19200056	Disinfection kit Omnia
19200057	Disinfectant Omnia – 3 pcs./pack
19200021	Pre-treatment unit OmniaTap –10"



Flow chart OmniaTap UV/UF

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 1 tultra pure water for analytical and bioscience applications.

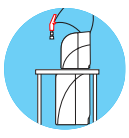
Features

- OptiFill 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

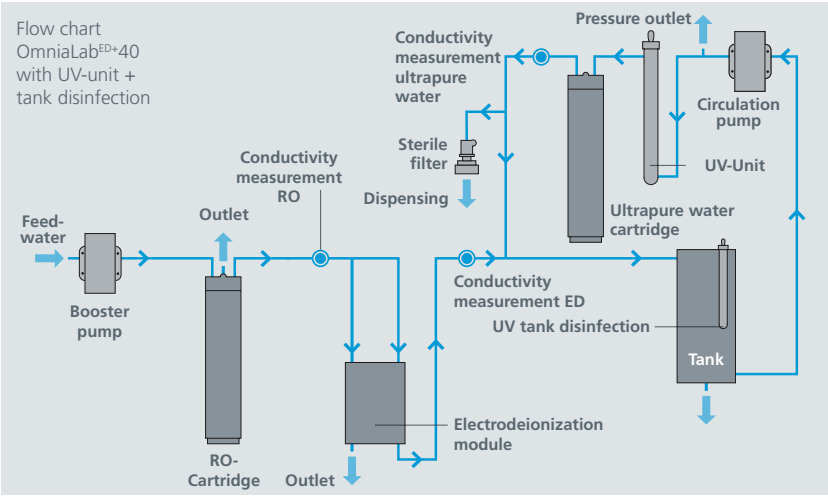
Specifications	OmniaLab^{ED+}20	OmniaLab^{ED+}40	OmniaLab^{ED+}70
Type II			
Pure water performance l/h at 15 °C	20	40	70
Conductivity µS/cm	0.067 – 1	0.067 – 1	0.067 – 1
Resistance MΩ x cm	15 – 1	15 – 1	15 – 1
Silicate removal* %	99.9	99.9	99.9
Pure water tank pressurized outlet	yes	yes	yes
Type I			
Conductivity µS/cm	0.055	0.055	0.055
Resistance MΩ x cm	18.2	18.2	18.2
TOC-value* ppb (with UV-unit)	1 – 5	1 – 5	1 – 5
Dispensing performance dispenser l/min.	up to 2	up to 2	up to 2
Particles**/ml	< 1	< 1	< 1
Bacteria** CFU/ml	< 0.1	< 0.1	< 0.1
Feedwater requirements			
Softened water according to DIN 2000			
Feedwater temperature °C	+ 2 up to 35	+ 2 up to 35	+ 2 up to 35
Manganese and iron content mg/l	< 0.05	< 0.05	< 0.05
Free chlorine content mg/l	< 0.1	< 0.1	< 0.1
Silt density index (SDI)	max. 3	max. 3	max. 3
Technical data			
Operating pressure bar	2 – 6	2 – 6	2 – 6
Supply voltage Volt/Hz	90-240/50-60	90-240/50-60	90-240/50-60
Connected load kW	0.25	0.25	0.25
Connector size	3/4"	3/4"	3/4"
Ambient temperature °C	+ 2 up to + 35	+ 2 up to + 35	+ 2 up to + 35
Dimensions Tower*** W x H x D mm	511 x 1520 x 575	511 x 1520 x 575	511 x 1520 x 575
Dimensions Base cabinet tank mm	511 x 800 x 575	511 x 800 x 575	511 x 800 x 575
Weight kg	43	43	45

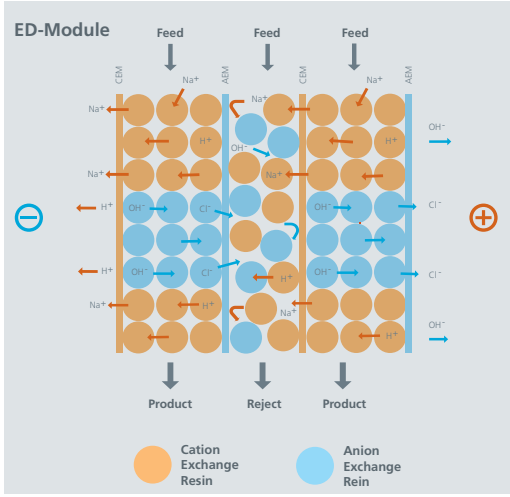
* in dependence on the feedwater quality ** with sterilizing filter 0.2 µm *** with OptiFill Dispenser

Article no.	System type*	Typical applications
18700020	OmniaLab^{ED+}20	Feedwater for autoclaves and laboratory washers
18700040	OmniaLab^{ED+}40	Feedwater for autoclaves and laboratory washers
18700070	OmniaLab^{ED+}70	Feedwater for autoclaves and laboratory washers

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

Accessories	
16125000	Water softener MixMulti 32
19200021	Pre-treatment unit OmniaLab – 10“
19200050	UV Flow through disinfection – 254 nm
19200052	UV Unit for TOC reduction – 254 nm
16561201	External pressure booster pump SC 3000





OmniaLab^{ED}

The efficient one. For H_2O 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.

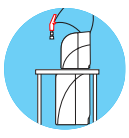
Features

- OptiFill 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

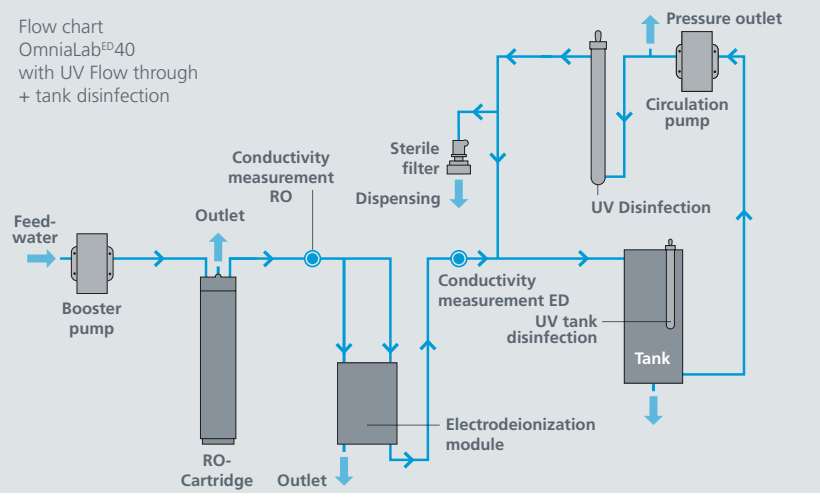
Specifications	OmniaLab^{ED}20	OmniaLab^{ED}40	OmniaLab^{ED}70
Type II			
Pure water performance l/h at 15 °C	20	40	70
Conductivity* µS/cm	0.1 – 1	0.1 – 1	0.1 – 1
Resistance* MΩ x cm	10 – 1	10 – 1	10 – 1
TOC-value* ppb	< 30	< 30	< 30
Silicate removal* %	> 99	> 99	> 99
Dispensing performance dispenser l/min.	up to 2	up to 2	up to 2
Particles**/ml	< 1	< 1	< 1
Bacteria** CFU/ml	< 0.1	< 0.1	< 0.1
Pure water tank pressurized outlet	yes	yes	yes
Feedwater requirements			
Softened water according to DIN 2000			
Feedwater temperature °C	+2 up to 35	+2 up to 35	+2 up to 35
Manganese and iron content mg/l	< 0.05	< 0.05	< 0.05
Free chlorine content mg/l	< 0.1	< 0.1	< 0.1
Silt density index (SDI)	max. 3	max. 3	max. 3
Technical data			
Operating pressure bar	2 – 6	2 – 6	2 – 6
Supply voltage Volt/Hz	90-240/50-60	90-240/50-60	90-240/50-60
Connected load kW	0.25	0.25	0.25
Connector size	3/4"	3/4"	3/4"
Ambient temperature °C	+2 up to +35	+2 up to +35	+2 up to +35
Dimensions Tower*** W x H x D mm	511 x 1520 x 575	511 x 1520 x 575	511 x 1520 x 575
Dimensions Base cabinet tank mm	511 x 800 x 575	511 x 800 x 575	511 x 800 x 575
Weight kg	41	41	43

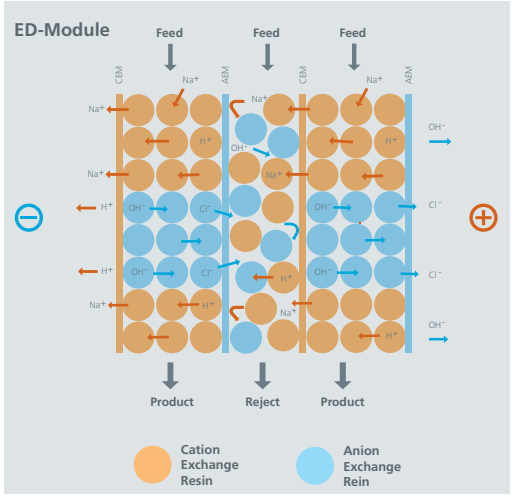
* in dependence on the feedwater quality ** with sterilizing filter 0.2 µm *** with OptiFill Dispenser

Article no.	System type*	Typical applications
18700021	OmniaLab^{ED}20	Feedwater for autoclaves, laboratory washers and ultrapure water systems
18700041	OmniaLab^{ED}40	Feedwater for autoclaves, laboratory washers and ultrapure water systems
18700071	OmniaLab^{ED}70	Feedwater for autoclaves, laboratory washers and ultrapure water systems

* RO cartridge, sterile filter capsule 0.2 µm, sterile overflow and sterile vent filter + CO_2 absorber included

Accessories	
16125000	Water softener MixMulti 32
19200020	Pre-treatment unit OmniaLab – 10"
19200050	UV Tank disinfecting unit 254 nm
19200051	UV Flow through disinfection 254 nm
16561201	External pressure booster pump SC 3000





OmniaLab^{UP}

The constant one.
For H_2O pure type II.

OmniaLab^{UP} is the system of choice when you need a constant supply of high-quality water in laboratories. For this, OmniaLab^{UP} holds 100 litres of type II pure water in reserve in a storage tank with quality recirculation. It is an optimal supplier to autoclaves, lab rinsing machines and ultrapure water systems. The water produced conforms to international medical technology water standards such as ASTM, ISO 3696 and CLRW (CLSI).

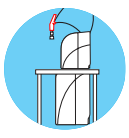
Features

- OptiFill Dispenser is standard
- 100 l tank with quality 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^{UP}20	OmniaLab^{UP}40
Type II		
Pure water performance l/h at 15 °C	20	40
Conductivity µS/cm	0.067–0.1	0.067–0.1
Resistance MΩ x cm	15–10	15–10
Dispensing performance dispenser l/min.	up to 2	up to 2
Pure water tank pressurized outlet	yes	yes
Particles*/ml	< 1	< 1
Bacteria* CFU/ml	< 0.1	< 0.1
Feedwater requirements		
Softened or hardness-stabilized water according to DIN 2000		
Feedwater temperature °C	+2 up to 35	+2 up to 35
Manganese and iron content mg/l	< 0.05	< 0.05
Free chlorine content mg/l	< 0.1	< 0.1
Silt density index (SDI)	max. 3	max. 3
Technical data		
Operating pressure bar	2–6	2–6
Supply voltage Volt/Hz	90-240/50-60	90-240/50-60
Connected load kW	0.1	0.1
Connector size	3/4"	3/4"
Ambient temperature °C	+2 up to +35 °C	+2 up to +35 °C
Dimensions Tower** W x H x D mm	511 x 1520 x 575	511 x 1520 x 575
Dimensions Base cabinet tank mm	511 x 800 x 575	511 x 800 x 575
Weight kg	40	40

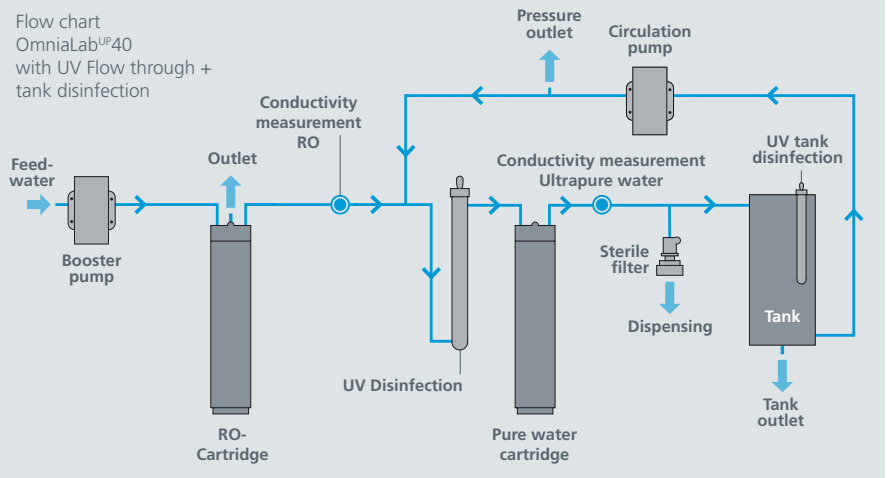
* with sterilizing filter 0.2 µm ** with OptiFill Dispenser

Article no.	System type*	Typical applications
18600020	OmniaLab^{UP}20	Feedwater for autoclaves and laboratory washers
18600040	OmniaLab^{UP}40	Feedwater for autoclaves and laboratory washers

* RO cartridge, pure water cartridge, sterile filter capsule 0.2 µm, sterile overflow and sterile vent filter + CO_2 absorber included.

Accessories	
19200020	Pre-treatment unit OmniaLab – 10“
19200050	UV tank disinfection unit 254 nm
19200051	UV Flow through disinfection 254 nm
16561201	External pressure booster pump SC 3000

Flow chart
OmniaLab^{UP}40
with UV Flow through +
tank disinfection



OmniaLab^{DS}

The reliable one.
For H_2O pure type II + CLRW (CLSI).

When safety is first priority and the quality of the purification decides the quality of results, then the OmniaLab^{DS} system is the perfect solution. Even for large pure water quantities of up to 80 l/h, OmniaLab^{DS} guarantees international water standards compliance. The combination of regenerative polishing cartridge and an optional emergency supply makes this system extremely reliable for supplying clinical analytical systems, as well as for feeding water to steam sterilizers and washer-disinfectors.

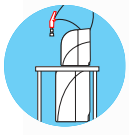
Features

- OptiFill Dispenser is standard
- 100 l tank with quality recirculation and pressure outlet
- Tank volume display in percent
- Tank volume can be modularly increased
- Simple, cost-effective filter replacement
- Leakage sensor is standard
- Emergency supply (optional)
- Degassing unit (optional)

One hand operation

Easy water dispensing

Flexible on a work surface



Tank fits space-savingly under the bench top

Specifications	OmniLab^{DS}20	OmniLab^{DS}40	OmniLab^{DS}60	OmniLab^{DS}80
Type II + CLRW (CLSI) DIN EN 285 + ISO EN 15883				
Pure water performance l/h at 15 °C	20	40	60	80
Conductivity µS/cm	0.1–1.0	0.1–1.0	0.1–1.0	0.1–1.0
Resistance MΩ x cm	10–1	10–1	10–1	10–1
Dispensing performance dispenser l/min.	up to 2	up to 2	up to 2	up to 2
Pure water tank pressurized outlet	yes	yes	yes	yes
Particles*/ml	< 1	< 1	< 1	< 1
Bacteria* CFU/ml	< 0.1	< 0.1	< 0.1	< 0.1
Feedwater requirements				
Softened or hardness-stabilized water according to DIN 2000				
Feedwater temperature °C	+2 up to 35	+2 up to 35	+2 up to 35	+2 up to 35
Manganese and iron content mg/l	< 0.05	< 0.05	< 0.05	< 0.05
Free chlorine content mg/l	< 0.1	< 0.1	< 0.1	< 0.1
Silt density index (SDI)	max. 3	max. 3	max. 3	max. 3
Technical data				
Operating pressure bar	2–6	2–6	2–6	2–6
Supply voltage Volt/Hz	90-240/50-60	90-240/50-60	90-240/50-60	90-240/50-60
Connected load kW	0.1	0.1	0.1	0.1
Connector size	3/4"	3/4"	3/4"	3/4"
Ambient temperature °C	+2 up to +35	+2 up to +35	+2 up to +35	+2 up to +35
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 mm	511 x 800 x 575	511 x 800 x 575	511 x 800 x 575	511 x 800 x 575
Weight kg (without polishing cartridge)	39	39	40	40

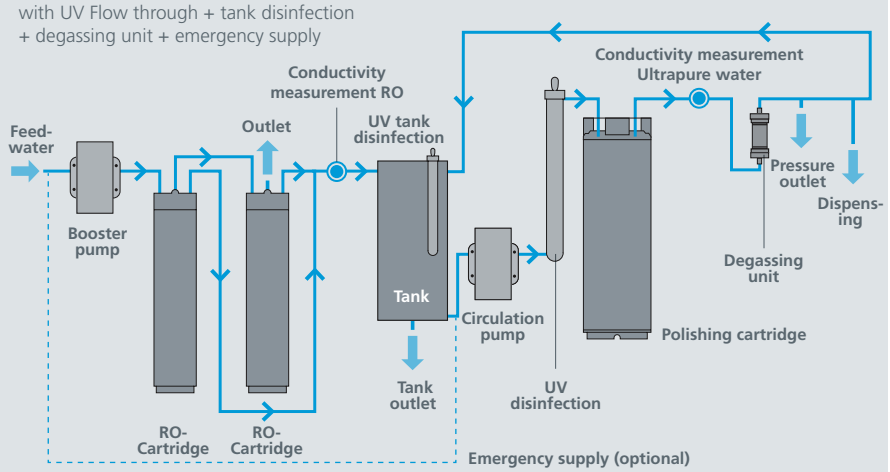
* with sterilizing filter 0.2 µm ** with OptiFill Dispenser

Article no.	System type	Typical applications
18800020	OmniLab^{DS}20	Feedwater for analyzers, autoclaves and laboratory washers
18800040	OmniLab^{DS}40	Feedwater for analyzers, autoclaves and laboratory washers
18800060	OmniLab^{DS}60	Feedwater for analyzers, autoclaves and laboratory washers
18800080	OmniLab^{DS}80	Feedwater for analyzers, autoclaves and laboratory washers

* RO cartridge, stainless steel polishing cartridge, sterile filter capsule 0.2 µm, sterile overflow and sterile vent filter + CO_2 absorber included

Accessories	
19200020	Pre-treatment unit OmniaLab – 10"
19200050	UV tank disinfection unit 254 nm
19200051	UV Flow through disinfection 254 nm
12280050	Replacement/second polishing cartridge type DS 2800 RV
19200040	Emergency supply
19200041	Degassing unit
16561201	External pressure booster pump SC 3000

Flow chart OmniaLab^{DS}80
with UV Flow through + tank disinfection
+ degassing unit + emergency supply



OmniaLab^{RO}

The big one.
For H_2O pure type III.

OmniaLab^{RO} fulfils your requirement when you have a needof a constant large volume of reverse osmosis water. For this, OmniaLab^{RO} holds 100 litres in reserve in a storage tank. It is an optimal supplier to autoclaves, lab rinsing machines, air humidifiers and ultrapure water systems.

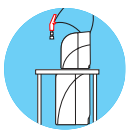
Features

- OptiFill Dispenser is standard
- With 100 l pure water tank
- Tank volume display in percent
- Tank volume can be modularly increased
- 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^{RO}20	OmniaLab^{RO}40	OmniaLab^{RO}60	OmniaLab^{RO}80
Type III				
Pure water performance l/h at 15 °C	20	40	60	80
RO membrane retention rate in % (ions. germs and bacteria)	> 98	> 98	> 98	> 98
Feedwater requirements				
Softened or hardness-stabilized water according to DIN 2000				
Feedwater temperature °C	+2 up to 35	+2 up to 35	+2 up to 35	+2 up to 35
Manganese and iron content mg/l	< 0.05	< 0.05	< 0.05	< 0.05
Free chlorine content mg/l	< 0.1	< 0.1	< 0.1	< 0.1
Silt density index (SDI)	max. 3	max. 3	max. 3	max. 3
Technical data				
Operating pressure bar	2–6	2–6	2–6	2–6
Supply voltage Volt/Hz	90-240/50-60	90-240/50-60	90-240/50-60	90-240/50-60
Connected load kW	0.1	0.1	0.1	0.1
Connector size	3/4"	3/4"	3/4"	3/4"
Ambient temperature °C	+2 up to +35	+2 up to +35	+2 up to +35	+2 up to +35
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 mm	511 x 800 x 575	511 x 800 x 575	511 x 800 x 575	511 x 800 x 575
Weight kg	38	38	40	40

* with OptiFill Dispenser

Article no.	System type	Typical applications
18500020	OmniaLab^{RO}20	Feedwater for autoclaves and laboratory washers, ultrapure water systems and air humidifiers
18500040	OmniaLab^{RO}40	Feedwater for autoclaves and laboratory washers, ultrapure water systems and air humidifiers
18500060	OmniaLab^{RO}60	Feedwater for autoclaves and laboratory washers, ultrapure water systems and air humidifiers
18500080	OmniaLab^{RO}80	Feedwater for autoclaves and laboratory washers, ultrapure water systems and air humidifiers

Accessories	
19200020	Pre-treatment unit OmniaLab – 10“
19200050	UV tank disinfection unit 254 nm
16561201	External pressure booster pump SC 3000

Flow chart OmniaLab^{RO}80 with tank disinfection