Omnia pure and ultrapure water systems

Convenient.

Compact. Adaptable.

Dispenser is standard!



H₂O 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 five systems, the new stakpure Omnia series provides the ideal solution for any task and satisfies international water standards such as ASTM, ISO 3696 and CLSI. The systems are characterized by their economy and flexibility in many applications.



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,		0.00	0.4
oxygen content (mg/l, max.)	_	0.08	0.4
Absorption at 254 nm			
and a lenght of 1 cm	0.001	0.01	_
(absorption units, max.)			
Residue after evaporation by heating to		4	2
110°C (mg/kg, max.)	_	I	Ζ
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.

	Туре	Grade	Conductivity	Resistance	рН	тос	Sodium	Chloride	Silicon	Bacteria	Endotoxins
			(µS/cm), max.	(M Ω x cm), min.		(µg/l), max.	(μg/l), max.	(µg/l), max.	(µg/l), max.	(CFU/ml), max.	(EU/ml), max.
iter	*		0.056	18.0	_	50	1	1	3	-	-
Ultrapure Water	*	А	0.056	18.0	-	50	1	1	3	10/1000	0.03
apur	*	В	0.056	18.0	-	50	1	1	3	10/100	0.25
Ę.	*	С	0.056	18.0	-	50	1	1	3	100/10	-
	II		1.0	1.0	_	50	5	5	3	_	_
water	II	А	1.0	1.0	_	50	5	5	3	10/1000	0.03
Pure \	II	В	1.0	1.0	-	50	5	5	3	10/100	0.25
△	II	С	1.0	1.0	-	50	5	5	3	100/10	-
	Ш		0.25	4.0	_	200	10	10	500	_	_
water	III	А	0.25	4.0	-	200	10	10	500	10/1000	0.03
Pure 1	III	В	0.25	4.0	-	200	10	10	500	10/100	0.25
△	III	С	0.25	4.0	_	200	10	10	500	100/10	_
_	IV		5.0	0.2	5.0-8.0	_	50	50	_	_	_
water	IV	А	5.0	0.2	5.0-8.0	_	50	50	_	10/1000	0.03
Pure 1	IV	В	5.0	0.2	5.0-8.0	_	50	50	_	10/100	0.25
△	IV	С	5.0	0.2	5.0-8.0	_	50	50	_	100/10	_

^{*} Using an appropriate 0,2µm 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.



Compact in design, these space-saving devices with their slender housing can be mounted on the wall, placed easily on the laboratory bench or in a base cabinet. Configure the system you choose for flexible use and economical operation.

The mains unit with automatic voltage adjustment to 24 V enables use anywhere in the world. With the new Omnia series, the name is the programme – Omnia is Latin for "everything".

OmniaPure The specialist. For H₂O pure type ASTM 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.

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

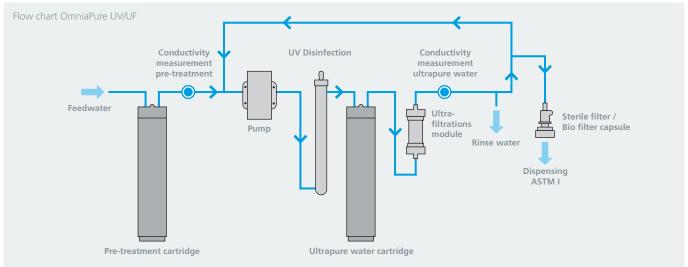












Specifications	OmniaPure	OmniaPure UV	OmniaPure UV/UF
ASTM I			
Conductivity µS/cm	0.055	0.055	0.055
Resistance MΩ x cm	18.2	18.2	18.2
TOC-value* ppb	5-10	1–5	1-5
Dispensing performance l/min.	up to 2	up to 2	up to 1.6
Endotoxins* EU/ml	-	-	0.001
RNase* ng/ml	-	-	4
DNase* pg/μl	-	-	0.01
Particles**/ml	< 1	< 1	< 1
Bacteria** CFU/ml	< 0.1	< 0.1	< 0.1
Feedwater requirements			
Water prepared by ion exchange, reverse or electrodionisation or distillation	smosis,		
Foodwater temperature °C	12 up to 35	12 up to 35	1.2 up to 35

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Water	prepared	by ion	exchange,	reverse	osmo

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	0.1-6	0.1-6	0.1-6
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 mm	8 mm hose	8 mm hose	8 mm hose
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
Weight kg	19	20	20

^{*} in dependence on the feedwater quality

^{***} with OptiFill Dispenser

Article no.	System type*	Typical applications
18200001	OmniaPure	AAS, IC, ICP, buffers and media preparation
18200002	OmniaPure UV	Ultra-trace analysis, ICP-MS, HPLC, TOC-analysis
18200003	OmniaPure UV/UF	Life science and microbiology, cell culture media

^{*} filter cartridges and sterile filter capsule 0.2 μm included

Consumable	
19200002	Pre-treatment cartridge OmniaPure
19200003	Ultrapure water cartridge Omnia 055
19100300	Sterile filter capsule 0.2 µm
19102100	Bio filter capsule
19000050	Ultrafiltration module
19200055	UV lamp

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

^{**} with sterilizing filter 0.2 μm

OmniaTap The Allrounder. For H₂O pure types ASTM 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 a drinking water tap. A press on the dispenser button activates dispensing of ultrapure water type ASTM I via the digital dispenser control. The recirculation of the pure water held in the installed 10 litre tank keeps it permanently at type ASTM II quality. The pure water tank has a second outlet for feeding downstream end users.

- OptiFill dispenser is standard
- TapWater set for direct connection to a drinking water tap
- 10-litre pure water tank has a pressure outlet
- Tank volume display in percent
- Simple and economical filter replacement
- Leakage sensor is standard
- Ready-to-use, including filter cartridges









Specifications	OmniaTap	OmniaTap UV	OmniaTap UV/UF
ASTM II			
Pure water performance l/h at 15 °C	6 or 10	6 or 10	6 or 10
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	yes	yes	yes
ASTM I			
Conductivity µS/cm	0.055	0.055	0.055
Resistance M Ω 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			
Drinking 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	< 1	< 1	< 1
Silt density index (SDI)	max. 3	max. 3	max. 3
Technical data			
Operating pressure bar	1-6	1-6	1-6
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 mm	8 mm hose	8 mm hose	8 mm hose
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	22	23	23

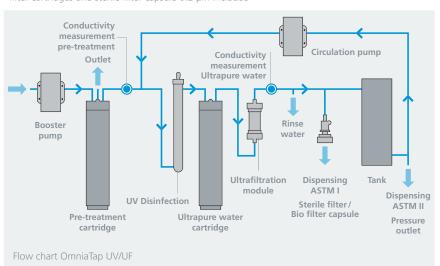
* in dependence or	the feedwater	quality
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^{**} with sterilizing filter 0.2 μm

^{***} with OptiFill Dispenser

Article no.	System type*	Typical applications
18200051	OmniaTap 6	AAS, IC, ICP, buffers and media preparation
18200101	OmniaTap 10	AAS, IC, ICP, buffers and media preparation
18200052	OmniaTap 6 UV	Ultra-trace analysis, ICP-MS, HPLC, TOC
18200102	OmniaTap 10 UV	Ultra-trace analysis, ICP-MS, HPLC, TOC
18200053	OmniaTap 6 UV/UF	Life science and microbiology, cell culture media
18200103	OmniaTap 10 UV/UF	Life science and microbiology, cell culture media

^{*}filter cartridges and sterile filter capsule 0.2 μm included



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

Consumable	
16510100	Prefilter cartridges 1 µm – 10"
19200005	Pre-treatment cartridge OmniaTap 6
19200010	Pre-treatment cartridge OmniaTap 10
19200003	Ultrapure water cartridge Omnia 055
19100300	Sterile filter capsule 0.2 µm
19102100	Bio filter capsule
19500400	Sterile tank ventilation filter
19000050	Ultrafiltration module
19200055	UV lamp

OmniaLab^{ED} The big one. For H₂O pure types ASTM I + II.

OmniaLab^{ED} is the system of choice when the complete laboratory pure water and ultrapure water requirements are to be fulfilled. 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, each OmniaLab^{ED}-system holds 100 litres of pure water type ASTM II ready for withdrawal in a storage tank that is equipped with quality recirculation. OmniaLab^{ED} is exactly right as pure water supplier to autoclaves and laboratory washing machines.

- 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





Easy water dispensing



Flexible on a work surface



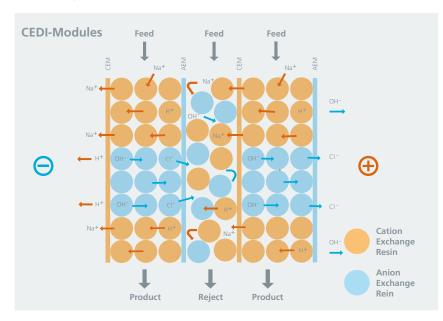
Tank fits space savingly under the bench-top



Specifications	OmniaLab ^{ED} 20	OmniaLab ^{ED} 40	OmniaLab ^{ED} 70
ASTM II			
Pure water performance I/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
Silicate removal** %	99.9	99.9	99.9
Dispensing performance dispenser l/min.	up to 2	up to 2	up to 2
Pure water tank pressurized outlet	yes	yes	yes
Particles***/ml	< 1	< 1	< 1
Bacteria*** CFU/ml	< 0.1	< 0.1	< 0.1
optional – ASTM I			
Conductivity µS/cm (with ultrapure water cartridge)	0.055	0.055	0.055
Resistance M Ω x cm (with ultrapure water cartridge)	18.2	18.2	18.2
TOC-value** ppb (with UV-unit)	5-10	5-10	5-10
Feedwater requirements			
Drinking 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	< 1	< 1	< 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 mm	8 mm hose	8 mm hose	8 mm hose
Ambient temperature °C	+2 up to +35	+2 up to +35	+2 up to +35
Dimensions Tower**** B x H x T 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	60	65	65

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

^{*} filter cartridges Omnia 067 and sterile filter capsule 0.2 μm included



Accessories	
19200020	Pre-treatment unit OmniaLab – 10"
19200050	UV Tank disinfecting unit
19200051	UV Flow through disinfection – 254
19200052	UV Unit for TOC reduction – 185
19200100	Additional docking tank 100 litres
16561200	External pressure booster pump MQ 2000
16561600	External pressure booster pump MQ 3000

Consumable	
16520101	Prefilter cartridges 5 μm + hardness stabilisation
19200003	Ultrapure water cartridge Omnia 055
19200004	Pure water cartridge Omnia 067
19100300	Sterile filter capsule 0.2 µm
19200053	UV-lamp for tank disinfection
19200054	UV-lamp, 254
19200055	UV-lamp, 185
19500200	CO ₂ -Absorber + tank ventilation
19500300	Sterile tank ventilation filter

OmniaLab^{UP} The constant one. For H₂O pure type ASTM II.

OmniaLab^{UP} is the choice when you need a constant supply of high-quality water to laboratories. For this, OmniaLab^{UP} holds 100 litres of ASTM 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 CLSL

Features

- OptiFill Dispenser is standard
- 100 I 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









the bench top



Specifications	OmniaLab ^u 20	OmniaLab [∪] P40	
ASTM 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			
Drinking 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	< 1	< 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 mm	8 mm hose	8 mm hose	
Ambient temperature	+2 up to +35°C	+2 up to +35°C	
Dimensions Tower* B x H x T 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	55	57	

Article no.	System type*	Typical applications
18600020	OmniaLab [∪] P20	Feedwater for autoclaves and laboratory washers
18600040	OmniaLab ^{up} 40	Feedwater for autoclaves and laboratory washers

^{*}filter cartridges Omnia 067 and sterile filter capsule 0.2 μm included

Accessories	
19200020	Pre-treatment unit OmniaLab – 10"
19200050	UV Tank disinfecting unit
19200051	UV Flow through disinfection – 254
19200100	Additional docking tank 100 litres
16561200	External pressure booster pump MQ 2000
16561600	External pressure booster pump MQ 3000

Consumable	
16520101	Prefilter cartridges 5 µm + hardness stabilisation
19200004	Pure water cartridge Omnia 067
19100300	Sterile filter capsule 0.2 µm
19200053	UV-lamp for tank disinfection
19200054	UV-lamp, 254
19500200	CO ₂ -Absorber + tank ventilation
19500300	Sterile tank ventilation filter

OmniaLab^{RO} The big one. For H₂O pure type ASTM III.

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

- With 100 I pure water tank
- Tank volume display in percent
- Tank volume can be modularly increased
- Leakage sensor is standard



Specifications	OmniaLab ^{RO} 20	OmniaLab ^{RO} 40	OmniaLab ^{RO} 60	OmniaLab ^{RO} 80
ASTM 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				
Drinking water according to DIN 2000				
Feedwater temperature °C	+2 up to 35			
Manganese and iron content mg/l	< 0.05	< 0.05	< 0.05	< 0.05
Free chlorine content mg/l	< 1	< 1	< 1	< 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 mm	8 mm hose	8 mm hose	8 mm hose	8 mm hose
Ambient temperature	+2 up to +35°C	+2 up to +35°C	+2 up to +35°C	+2 up to + 35°C
Dimensions Tower* B x H x T mm	511 x 1520 x 575			
Dimensions Base cabinet tank mm	511 x 800 x 575			
Weight kg	55	57	60	65

^{*} 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 disinfecting unit
19200100	Additional docking tank 100 litres
16561200	External pressure booster pump MQ 2000
16561600	External pressure booster pump MQ 3000

Consumable	
16520101	Prefilter cartridges 5 μm + hardness stabilisation
19200053	UV-lamp for tank disinfection
19500300	Sterile tank ventilation filter

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We are certified according to ISO 9001: 2015

Retailer panel