

Фильтры ионитовые, картриджи, тестеры проводимости CARL ROTH DS 450, DS 750, AC 100, DC 400, DS 1500, DS 2000, DS 2800, DS 4000, OmniaPure, OmniaTap, Smart2Pure, Brita

Технические характеристики

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Wasser purification



Ion exchanger DS series

stakpure.

Pressureless. Plastic ion exchanger system made of plastic (PE) for producing fully desalinated pure water using a mixed bed ion exchanger resin. Suitable for small laboratories with a daily requirement of up to 15 litres. Can be connected directly to the mains water supply. With analogue conductivity tester, hose set and integrated filter system to prevent escape of resin. Acc. to standards such as DIN EN 13060, ASTM and VDE 0510.

Note: Capacity data apply for feed water with a total salt content of 10° dH; with a higher salt content or higher amounts of carbonic and silicic acid in the water, the capacity reduces.

Technical specifications:

Art. No.	KCE7.1	KCE8.1
Type	DS 450	DS 750
Cartridge filling	Mixed bed resin, disposable	Mixed bed resin, regenerative
Capacity	425 l	750 l
Flow rate	50 l/h	100 l/h
Clean water quality	0,1-20 µS/cm	
Measuring range	0.1-50 µS/cm	
Ø	100 mm	175 mm
Height	600 mm	470 mm
Weight	3 kg	6 kg
Max. water temperature	30 °C	
Connection	R 3/4"	
Mains connection	230 V, 50/60 Hz	

Delivery incl. cartridge, analogue conductivity tester and hose set. Model DS 450 also includes a wall mount.

Type	Art. No.	Pack Qty.
DS 450	KCE7.1	1 unit(s)
DS 750	KCE8.1	1 unit(s)



Ion exchanger cartridge DS series

stakpure. Material: Stainless steel AISI 316.

Pressure-resistant (up to 10 bar) stainless steel ion exchanger cartridges made of stainless steel, can be connected directed to the mains water.

For the production of demineralised water. Suitable for supplying ultra-pure water systems, analysis machines, dishwashers and autoclaves, or for industrial use with process water, battery water and cooling water. Acc. to standards such as ASTM, CLSI, DIN EN 285, VDE 0510.

Note: Capacity data apply for feed water with a total salt content of 10° dH; with a higher salt content or higher amounts of carbonic and silicic acid in the water, the capacity reduces.

Technical specifications:

Art. No.	KCE3.1	KCE4.1	KCE5.1	KCE6.1
Type	DS 1500	DS 2000	DS 2800	DS 4000
Cartridge filling	Mixed bed resin, regenerative			
Capacity	1,500 l	2,000 l	2,800 l	4,000 l
Flow rate	300 l/h		950 l/h	1,000 l/h
Clean water quality	0,1-20 µS/cm			
Ø	240 mm			
Height	410 mm	490 mm	570 mm	700 mm
Weight	14 kg	18 kg	24 kg	27 kg
Max. operating pressure	10 bar			
Max. water temperature	30 °C			
Connection	R 3/4"			

Delivery without conductivity tester (Art. No. KCH2.1, analogue or Art. No. KCH1.1, digital), please order separately.

Type	Art. No.	Pack Qty.
DS 1500	KCE3.1	1 unit(s)
DS 2000	KCE4.1	1 unit(s)
DS 2800	KCE5.1	1 unit(s)
DS 4000	KCE6.1	1 unit(s)



Wasser purification



Conductivity tester AC 100 analogue

stakpure.

Suitable for ion exchangers DS 1500 to DS 4000.

With integrated measuring cell. Analogue measured value display in $\mu\text{S/cm}$.

Technical specifications:

Art. No.	KCH2.1
Type	AC 100
Measuring range	0.1 to 50 $\mu\text{S/cm}$
Width	93 mm
Depth	123 mm
Height	170 mm
Connection	R $\frac{3}{4}$ "
Mains connection	230 V, 50/60 Hz

Delivery incl. hose set (2 x 1.5 m hoses with R $\frac{3}{4}$ " connections).

Type	Art. No.	Pack Qty.	
AC 100	KCH2.1	1 unit(s)	



Conductivity tester DC 400 digital

stakpure.

Suitable for ion exchangers DS 1500 to DS 4000. Conductivity

measuring range 0.1 to 300 $\mu\text{S/cm}$ (automatic switchover at 9.99). For the online measurement of pure and ultrapure water downstream of ion exchanger cartridges and for monitoring closed-loop systems. For wall mounting.

- Large two-colour backlit graphic display for digitally displaying the conductivity in $\mu\text{S/cm}$ or in $\text{M}\Omega \times \text{cm}$ and the temperature in $^{\circ}\text{C}$
- Continuous adjustment of the limit values for temperature (from 10 to 40 $^{\circ}\text{C}$) and conductivity (from 0.1 to 30 $\mu\text{S/cm}$)
- Signals for exceeded limits for temperature and conductivity: LED display green/red + buzzer (both limit values can be deactivated)
- Signals for fault message: display switch-over green/red
- Automatic comparison before each measurement using an integrated reference resistor and temperature measurement using platinum temperature sensor
- Automatic voltage switching for international use

Technical specifications:

Art. No.	KCH1.1
Type	DC 400
Conductivity measuring range from	0.1 $\mu\text{S/cm}$
Conductivity measuring range up to	300 $\mu\text{S/cm}$
Temperature measuring range from	0.1 $^{\circ}\text{C}$
Temperature measuring range up to	99.9 $^{\circ}\text{C}$
Temp. compensation	Automatic
Width	73 mm
Depth	32 mm
Height	141 mm
Connection	$\frac{3}{4}$ "
Protection class	IP 54
Mains connection	110/230 V, 50/60 Hz

Delivery incl. connecting cable, plug-in power supply, measuring cell and tube set consisting of 2 x 1.5 m tubes with R $\frac{3}{4}$ "-connections and wall mount.

Type	Art. No.	Pack Qty.	
DC 400	KCH1.1	1 unit(s)	

Wasser purification

Ultrapure water system OmniaPure series

stakpure.

For the production of 20-100 litres ultrapure water ASTM Type I per day. Flexible dispenser with digital control for water withdrawal at the touch of a button.



- OptiFill dispenser as standard
- Space-saving mounting on a laboratory bench or optionally on a wall
- Simple and cost-effective filter replacement
- Integrated pre-treatment unit
- RS 232 port
- Leak sensor as standard
- Integrated pressure reducer as standard
- Ready to use, ready to connect, incl. filter cartridges
- Model type "TOC" with TOC monitoring

Technical specifications:

Art. No.	KCC7.1	KCC8.1	KCE0.1	KCC9.1	KCE1.1
Type	OmniaPure	OmniaPure UV	OmniaPure UV-TOC	OmniaPure UV/UF	OmniaPure UV-TOC/UF
Conductivity of high-purity water, type I	0.055 µS/cm				
Resistance of high-purity water, type I	18.2 MΩ*cm				
Withdrawal capacity of high-purity water, type I	2 l/min			1.6 l/min	
Bacteria content of high-purity water, type I	< 0,1 KbE/ml				
Endotoxin content of high-purity water, type I				0.001 EU/ml	
TOC value of high-purity water, type I	5-10 ppb	1-5 ppb			
DNase content of high-purity water, type I				4 ng/ml	
RNase content of high-purity water, type I				0.01 ng/ml	
Particle content of high-purity water, type I	< 1/ml				
Width	390 mm				
Depth	525 mm				
Height	720 mm				
Weight	19 kg	20 kg			
Min. operating pressure	0.5 bar				
Max. operating pressure	6 bar				
Ambient temperature	2-35 °C				
Connection	R 3/4"				
Mains connection	100-240 V, 50/60 Hz				

Feed water requirements: Water treated through ion exchange, reverse osmosis, deionisation or distillation

Feed water temperature (°C)	+2-35
Feed water pressure (bar)	0.5-6
Inlet conductivity (µS/cm)	<100
TOC value (ppb)	<50

Note: endotoxin concentration, RNase, DNase content and TOC value depend on the quality of the feed water. The 0.2 µm sterile filter capsule is needed to meet the requirements for particle and bacteria contents.

Typical applications: AAS, IC, ICP, buffer and media preparation.

Delivery incl. OmniaPure pure water system, pretreatment cartridge (RO cartridge), ultrapure water cartridge, sterile filter capsule 0.2 µm, PE hose Ø 8 mm, L 2.5 m, one PE hose Ø 8 mm, L 2.5 m incl. input protection filter and water connection adapter R 3/4". Also includes a UV lamp and/or ultrafiltration module (UF) depending on the model.

Type	Art. No.	Pack Qty.	
OmniaPure	KCC7.1	1 unit(s)	



Wasser purification

Typical applications: Ultratrace analysis, ICP-MS, HPLC, TOC analysis.

Delivery incl. OmniaPure pure water system, pretreatment cartridge (RO cartridge), ultrapure water cartridge, sterile filter capsule 0.2 µm, PE hose Ø 8 mm, L 2.5 m, one PE hose Ø 8 mm, L 2.5 m incl. input protection filter and water connection adapter R $\frac{3}{4}$ ". Also includes a UV lamp and/or ultrafiltration module (UF) depending on the model.

Type	Art. No.	Pack Qty.	
OmniaPure UV	KCC8.1	1 unit(s)	
OmniaPure UV-TOC	KCE0.1	1 unit(s)	

Typical applications: cell culture media, molecular and microbiology.

Delivery incl. OmniaPure pure water system, pretreatment cartridge (RO cartridge), ultrapure water cartridge, sterile filter capsule 0.2 µm, PE hose Ø 8 mm, L 2.5 m, one PE hose Ø 8 mm, L 2.5 m incl. input protection filter and water connection adapter R $\frac{3}{4}$ ". Also includes a UV lamp and/or ultrafiltration module (UF) depending on the model.

Type	Art. No.	Pack Qty.	
OmniaPure UV/UF	KCC9.1	1 unit(s)	
OmniaPure UV-TOC/UF	KCE1.1	1 unit(s)	

Accessories for OmniaTap and OmniaPure and ultrapure water systems

stakpure.

Type	Art. No.	Pack Qty.	
Replacement pretreatment cartridge (RO cartridge) for OmniaTap 6 l/h	KCA7.1	1 unit(s)	
Replacement pretreatment cartridge (RO cartridge) for OmniaTap 12 l/h	KCA8.1	1 unit(s)	
Replacement ultrapure water cartridge for Omnia Tap and OmniaPure	KCA9.1	1 unit(s)	
Replacement UV lamp, 185/254 nm	KCC0.1	1 unit(s)	
Replacement UF ultrafiltration module	KCC1.1	1 unit(s)	
Replacement sterile filter capsule (0.2 µm)	KCC2.1	1 unit(s)	
Replacement tank breather filter	KCC3.1	1 unit(s)	
Optional OmniaTap/Lab10" treatment unit - incl. connection hose. For pretreating the feed water if it does not meet the feed requirements.	KCC4.1	1 unit(s)	
Optional pump station for OmniaTap	KCC5.1	1 unit(s)	
Optional wall mount incl. fixing material	KCC6.1	1 unit(s)	

Wasser purification

Pure and ultrapure water system OmniaTap series

stakpure.

Preparation system for producing both pure and ultrapure water.

Directly connectable to the mains water supply. The flexible dispenser is used to draw ASTM Type I ultrapure water. The water is drawn at the touch of a button using the dispenser's digital control system. An integrated 10-litre tank with recirculation keeps the quality constantly at ASTM Type II. An optionally available pump station can be used to supply downstream devices with pure water (ASTM Type II) from the pure water tank.



- Space-saving mounting on a laboratory bench or optionally on a wall
- OptiFill dispenser as standard
- TapWater set – direct connection to drinking water
- 10 l tank with recirculation system
- Tank volume display in percent
- Simple and cost-effective filter replacement
- RS 232 port
- Leak sensor as standard
- Ready to use, ready to connect, incl. filter cartridges
- Can be operated using just one hand

Technical specifications:

Art. No.	KCA1.1	KCA2.1	KCA3.1	KCA4.1	KCA5.1	KCA6.1
Type	OmniaTap 6 l/h	OmniaTap 12 l/h	OmniaTap UV 6 l/h	OmniaTap UV 12 l/h	OmniaTap UV/UF 6 l/h	OmniaTap UV/UF 12 l/h
Conductivity of high-purity water, type I	0.055 μS/cm					
Conductivity of pure water, type II	0.067-0.1 μS/cm					
Resistance of high-purity water, type I	18.2 MΩ*cm					
Resistance of pure water, type II	10-15 MΩ*cm					
Withdrawal capacity of high-purity water, type I	2 l/min				1.6 l/min	
Withdrawal capacity of pure water, type II	6 l/h	12 l/h	6 l/h	12 l/h	6 l/h	12 l/h
Bacteria content of high-purity water, type I	< 0,1 KbE/ml					
Endotoxin content of high-purity water, type I					0.001 EU/ml	
TOC value of high-purity water, type 1	5-10 ppb		1-5 ppb			
Particle content of high-purity water, type I	< 1 particle per ml (particle size > 0.2 μm)					
Width	390 mm					
Depth	615 mm					
Height	725 mm					
Weight	20 kg		21 kg			
Min. operating pressure	2 bar					
Max. operating pressure	6 bar					
Ambient temperature	2-35 °C					
Connection	R ¾"					
Mains connection	100–240 V, 50/60 Hz					

Feed water requirements: drinking water acc. to DIN 2000

Feed water temperature (°C)	+2-35
Feed water pressure (bar)	0.5-6
Manganese, aluminium and iron content (ppm)	<0.05
Free chlorine (ppm)	<4
Silt density index (SDI)	Max. 3
pH range	4-11

Note: endotoxin concentration and TOC value depend on the quality of the feed water. The 0.2 µm sterile filter capsule is needed to meet the requirements for particle and bacteria contents.



Wasser purification

Typical applications: AAS, IC, ICP, buffer and media preparation.

Delivery incl. OmniaTap ultrapure water system with integrated 10-l tank, sterile tank overflow and venting filter, pretreatment cartridge (RO cartridge), ultrapure water cartridge, sterile filter capsule 0.2 µm, 3 x PE hoses Ø 8 mm, L 2.5 m, water connection adapter R $\frac{3}{4}$ ". Also includes a UV lamp and/or ultrafiltration module (UF) depending on the model.

Type	Art. No.	Pack Qty.	
OmniaTap 6 l/h	KCA1.1	1 unit(s)	
OmniaTap 12 l/h	KCA2.1	1 unit(s)	

Typical applications: Ultratrace analysis, ICP-MS, HPLC, TOC.

Delivery incl. OmniaTap ultrapure water system with integrated 10-l tank, sterile tank overflow and venting filter, pretreatment cartridge (RO cartridge), ultrapure water cartridge, sterile filter capsule 0.2 µm, 3 x PE hoses Ø 8 mm, L 2.5 m, water connection adapter R $\frac{3}{4}$ ". Also includes a UV lamp and/or ultrafiltration module (UF) depending on the model.

Type	Art. No.	Pack Qty.	
OmniaTap UV 6 l/h	KCA3.1	1 unit(s)	
OmniaTap UV 12 l/h	KCA4.1	1 unit(s)	

Typical applications: cell culture media, molecular and microbiology.

Delivery incl. OmniaTap ultrapure water system with integrated 10-l tank, sterile tank overflow and venting filter, pretreatment cartridge (RO cartridge), ultrapure water cartridge, sterile filter capsule 0.2 µm, 3 x PE hoses Ø 8 mm, L 2.5 m, water connection adapter R $\frac{3}{4}$ ". Also includes a UV lamp and/or ultrafiltration module (UF) depending on the model.

Type	Art. No.	Pack Qty.	
OmniaTap UV/UF 6 l/h	KCA5.1	1 unit(s)	
OmniaTap UV/UF 12 l/h	KCA6.1	1 unit(s)	

Wasser purification

Pure and ultrapure water system Smart2Pure series

Thermo.

Compact system for the production of contamination-free water from mains water. The device is **connected directly to the mains water supply**.

Simultaneous provision of ultrapure and pure water qualities:

- **ASTM Type I** (resistance of 18.2 MΩ x cm)
- **ASTM Type II** (resistance of 10-15 MΩ x cm)



Easy to use, space-saving design and low follow-up costs. The pre-treatment cartridge is separate from the ultrapure water cartridge. Only the used cartridge need be replaced, when necessary.

Applications:

Analytical chemistry:

HPLC, GC, GC-MS, ICP-MS, AA, TOC measurements, IC

Molecular biology and microbiology:

Cell/tissue culture, PCR, DNA sequencing, electrophoresis

Routine tasks in the laboratory

Preparation and dilution of buffers and reagents, rinsing of laboratory glass instruments, supply of autoclaves, analysers and other laboratory instruments

Features:

- Combined cartridge (reverse osmosis membrane/activated charcoal) for pre-treatment of feed water
- Direct tapping of type I ultrapure water through a sterile end filter (0.2 µm)
- Integrated 6-litre tank for storing type II pure water
- Guaranteed pure water quality: the recirculation pump and sterile air filter protect from microbial contamination
- Additional pressure outlet on ultrapure water tank for supplying downstream devices
- Simple and economical change of expendables as treatment cartridges can be replaced separately
- Space-saving mounting on laboratory bench or on the wall

Technical specifications:

Art. No.	HE81.1	HE82.1	HE83.1	HE84.1
Type	Smart2Pure UV 3 l/h	Smart2Pure UV 6 l/h	Smart2Pure UV/UF 3 l/h	Smart2Pure UV/UF 6 l/h
Conductivity of high-purity water, type I	0.055 µS/cm			
Conductivity of pure water, type II	0.067-0.1 µS/cm			
Resistance of high-purity water, type I	18.2 MΩ*cm			
Resistance of pure water, type II	10-15 MΩ*cm			
Withdrawal capacity of high-purity water, type I	1 l/min		0.6 l/min	
Withdrawal capacity of pure water, type II	3 l/h	6 l/h	3 l/h	6 l/h
Bacteria content of high-purity water, type I	< 1 KbE/ml			
Endotoxin content of high-purity water, type I	0.001 EU/ml			
TOC value of high-purity water, type 1	1-5 ppb			
Particle content of high-purity water, type I	< 1 particle per ml (particle size < 0.2 µm)			
Width	305 mm			
Depth	400 mm			
Height	545 mm			
Weight	22 kg			
Connection	Feedwater: hose (length 1.5 m) with Ø outside 8 mm and 3/4". Waste water: 1/4" or Ø outside 8 mm, hose (length 2 m), pressure-free discharge			
Mains connection	100-240 V, 50/60 Hz			

Drinking water requirements:

Drinking water to DIN 2000	Manganese and iron content: <0.05 mg/l
	Chlorine concentration: <0.1 mg/l
	Colloid index: <3
	Feed water temperature: 2-35 °C
	Feed water pressure: 1-6 bar

Delivery incl. Smart2Pure unit with integral 6-litre tank, sterile tank ventilation filter, combined cartridge (reverse osmosis membrane/activated charcoal), ultrapure water cartridge, 0.2 µm end filter, pressure retaining valve, device socket (length 1.8 m) UV lamp and/or ultra-filter (depending on model).



Wasser purification

With UV lamp (wave length 254 and 185 nm), which inactivates bacteria, oxidises organic compounds and enables germ-free ultrapure water quality with a TOC concentration < 5 ppb.

Typical applications: Anorganic and organic trace analysis, HPLC, ICP-MS, IC, TOC analysis.

Type	Art. No.	Pack Qty.	
Smart2Pure UV 3 l/h	HE81.1	1 unit(s)	
Smart2Pure UV 6 l/h	HE82.1	1 unit(s)	

With UV lamp and UF module. The UF ultra-filtration module guarantees almost complete elimination of macro-molecular contamination such as micro-organisms, pyrogens (bacterial endotoxins), nucleases and particles; the combination of UV oxidation (254 and 185 nm) and ultra-filtration produces analytically pure water with a specific resistance of up to 18.2 MΩ cm, TOC values of < 5 ppb, pyrogene levels of < 0.001 EU/ml and RNase, DNase and DNA concentrations below the detection limit.

Typical applications: molecular biology, PCR, DNA, monoclonal antibodies, cell culture media.

Type	Art. No.	Pack Qty.	
Smart2Pure UV/UF 3 l/h	HE83.1	1 unit(s)	
Smart2Pure UV/UF 6 l/h	HE84.1	1 unit(s)	

Benchtop water filter Brita®

Brita.

For optimal drinking water quality. Reduces limescale, lead, copper and chlorine content using a combination of ion exchange and activated charcoal.

- Electronic cartridge exchange indicator
- With MAXTRA Flow Control for steady flow and optimal filtration capacity



Technical specifications:

Art. No.	XC11.1	XC12.1
Type	MARELLA	FLOW
Filling capacity	2.4 l	8.5 l
Width	109 mm	350 mm
Depth	267 mm	217 mm
Height	277 mm	224 mm

Delivery incl. Li button cells and 1 filter cartridge MAXTRA.

MARELLA

With wide filling opening.

Type	Art. No.	Pack Qty.	
MARELLA	XC11.1	1 unit(s)	

FLOW

Easy removal via stop cock.

Type	Art. No.	Pack Qty.	
FLOW	XC12.1	1 unit(s)	

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