

Ion exchangers for  
demineralising water.  
Safe, reliable, top quality  
that can be regenerated  
time and time again.



stakpure

# Ion exchangers from stakpure. The economic answer to demineralised water.



Whether for ultrapure water systems, automatic analysers, dishwashers, autoclaves – demineralised water is needed on a daily basis for all sorts of different purposes in medical practices, hospitals and laboratories. Whether in small quantities or up to 3000 litres an hour – we have the right ion exchanger for any need.

Inside a container, water flows over a mixed-bed of special resins that removes its salts and other minerals. A tried and proven method that guarantees water of a constant high quality all the time. The resins come with a long useful life and can be regenerated whenever necessary without any impact on the environment.

# For small quantities: Ion exchangers in cartridges of synthetic material.

These ion exchangers have been designed specifically for medical practices and small laboratories requiring up to 10 litres a day. The non-pressurised cartridge will be simply regenerated or replaced after a prolonged period of service. It is equipped with conductivity meter, set of hoses and wall mounting is optionally available.

## Operating safety

An innovative filter system prevents any resin from escaping. High product safety for downstream equipment as well.

stakpure ion exchangers	DS 450*	DS 750*
Model	one-way cartridge	regenerably cartridge
Flow rate	50 l/h	100 l/h
Capacity for 10° total dissolved solids	425 l	750 l
Pure water quality	0.1 – 20 µS/cm	0.1 – 20 µS/cm
Max. water temperature	30 °C	30 °C
Power supply	230 V/50–60 Hz	230 V/50–60 Hz
Material	Polyethylene	Polyethylene
Dimensions mm (Ø x height)	100 x 600	175 x 470
Connection	R ¾"	R ¾"
Weight, approx.	3 kg	6 kg
Order no.	11042500	11170500
Replacement cartridge	11042700**	11175000
Wall mount	– included	13140400

\* conductivity meter included

\*\* set 2 pcs.



# For large quantities: Ion exchangers in stainless steel cartridges.

For any situation requiring 300 to 3000\* litres of demineralised water an hour. A sophisticated flow system for incoming water ensures a fast and effective flow of water through the mixed-bed system with ion-exchange resins.

\* We recommend our reverse-osmosis systems in applications requiring higher quantities or where particular demands are placed on pure water.

## stakpure DS ion exchange cartridges

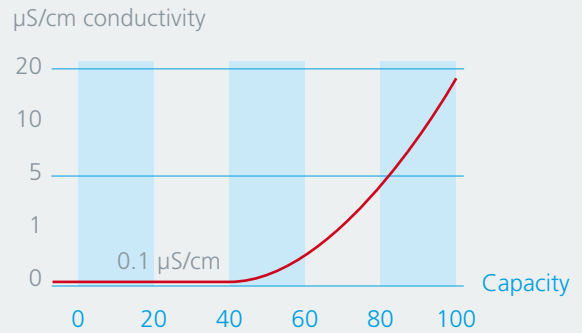
For up to 300 and 1000 l an hour.  
Stainless-steel cartridge. Hard-rubber carrying handles.



stakpure mixed-bed ion exchangers	DS 1500	DS 2000	DS 2800	DS 4000	DS 6000
Water demineraliser					pressure-resistant
Stainless-steel cartridge					pressure-resistant to 10 bar
Flow rate	300 l/h	300 l/h	950 l/h	1000 l/h	1000 l/h
Capacity for 10° total dissolved solids	1500 l	2000 l	2800 l	4000 l	6000 l
Pure water quality	0.1 – 20 µS/cm				
Max. water temperature	30 °C				
Material	Stainless steel – AISI 316				
Dimensions mm (Ø x height)	240 x 410	240 x 490	240 x 570	240 x 700	240 x 1155
Connection	R ¾ "				
Weight, approx.	14 kg	18 kg	24 kg	27 kg	45 kg
Order no.	12115000	12200000	12280000	12400000	12600000
Wall mount	13140500				

On request, the cartridges can also be equipped with quick-connect couplings.

**Comparison  
Pure water quality  
in relation to  
capacity**



stakpure ion exchangers deliver reproducible demineralised water with a permanently low level of conductivity that remains more or less constant throughout cartridge life and meets all common standards, such as ASTM, CLSI and DIN EN 285/13060.



**stakpure industrial ion exchange cartridges**

Specifically for industrial applications. With a particularly high capacity and flow rates of up to 3000 litres an hour. Made entirely of stainless steel.

stakpure mixed-bed ion exchangers	DS 7000	DS 11000	DS 15000
Water demineraliser		pressure-resistant	
Stainless-steel cartridge		pressure-resistant to 10 bar	
Flow rates	2000 l/h	2500 l/h	3000 l/h
Capacity for 10° total dissolved solids	7000 l	11000 l	15000 l
Pure water quality		0.1–20 $\mu\text{S/cm}$	
Max. water temperature		30 °C	
Material		Stainless steel – AISI 316	
Dimensions mm (Ø x height)	363 x 600	363 x 850	363 x 1100
Connection		R ¾ "	
Weight, approx.	55 kg	70 kg	90 kg
Order no.	12700000	12110000	12150000

On request, the cartridges can also be equipped with quick-connect couplings.

# Everything under control.

## stakpure digital and analogue conductivity monitoring.

### stakpure DC 400

Developed for online measurement of pure and ultrapure water downstream of ion-exchange cartridges and for monitoring ring-main systems. High-precision conductivity meter ensuring exact measurement of temperature and conductivity for constantly monitoring quality. Digital display guarantees to show readings even at the lowest end of the conductivity measurement range.

Comes complete with connecting cable, plug-type power supply unit, set of two 1.5 m hoses and measuring cell.

#### Voltage selection

Automatic voltage selection for international use.

#### LED indicators

Show red/green to signalise when limit values are exceeded for temperature and conductivity.

Technical specifications	DC 400
Conductivity measurement range	0.1–300 µS/cm (automatically switches over at 9.99)
Temperature measurement range	0.1–99.9°C
Temperature compensation	automatic
Conductivity limiting-value setting	0.1–30 µS/cm, infinitely variable
Temperature limiting-value setting	10–40°C infinitely variable
Signals on exceeding limiting value	red/green LED indicator + buzzer (both limiting values can be deactivated)
Fault signalling	Display changes from green to red
Interfaces (optional only)	potential-free contact + RS 232
Power supply	110/230 V/50–60 Hz (automatic voltage selection)
Dimensions mm (W x D x H)	73 x 32 x 141
Installation	Wall mounting
Connection	R 3/4 "

Unit	DC 400	DC 400	DC 400
Version		with potential-free contact + RS 232	with interfaces + solenoid valve
Order no.	14180500	14180600	14180700

On request, the conductivity meters can also be equipped with quick-connect couplings.

### Large graphic display

2-colour, back-lit graphic digital display indicating conductivity in µS/cm or in MΩcm and temperature in °C. Background illumination changes from green to red to signal a fault and show plaintext message.



### Interfaces

Direct connection of peripheral equipment at potential-free contact. Optional interfaces RS-232 for documentation and connecting a printer.

### Limiting values

Infinite adjustment of limiting values for temperature and conductivity.

### High-precision measurement

Automatic calibration before each measurement with integrated reference resistor, temperature measured by platinum temperature sensor.

## stakpure AC 100

Conductivity meter as the easy and reliable answer to measuring the conductivity of pure water. Analogue display of measurement value in  $\mu\text{S}/\text{cm}$ . Either for connecting directly to ion-exchange cartridges or for space-saving wall installation.

Comes complete with measuring cell and set of two 1.5 m hoses.

Unit	AC 100	AW 100
Measurement range	0.1–50 $\mu\text{S}/\text{cm}$	0.1–50 $\mu\text{S}/\text{cm}$
Power supply	230 V/50–60 Hz	230 V/50–60 Hz
Dimensions mm (W x D x H)	93 x 123 x 170	93 x 125 x 96
Connection	R $\frac{3}{4}$ "	R $\frac{3}{4}$ "
Order no. (for connecting directly to DS 1500–15000)	14160100	
Order no. (for wall installation only)		14160200

On request, the conductivity meters can also be equipped with quick-connect couplings.



AC 100



1.  
Pure water  
outlet valve



2.  
Pure water  
outlet valve



3.  
Pure water  
tap



4.  
Pure water  
distributor block



5.  
Pure water  
T-connector

System accessories	Connections	Order no.
<b>1. Pure water outlet valve</b> Synthetic, straight	R $\frac{3}{4}$ " with union nut	13140000
<b>2. Pure water outlet valve</b> Synthetic, angled	R $\frac{3}{4}$ " with union nut	13140100
<b>3. Pure water tap</b> Synthetic	R $\frac{3}{4}$ " with union nut	13140300
<b>4. Pure water distributor block</b> Synthetic	R $\frac{3}{4}$ " 1 inlet and 3 outlets for connecting tap and distributing valves	13140200
<b>5. Pure water T-connector</b> Synthetic	R $\frac{3}{4}$ " 1 inlet and 2 outlets for connecting tap and distributing valves	13142000

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Retailer panel