

Mixed-bed water demineralisation system Type: VE

Application

Suited for production of fully demineralised water

- for air humidification
- for small steam generators
- for applications used in lab
- for dishwashers in canteens
- for heating circuits
- of permeate from reverse osmosis

and other applications.

Function

Mixed-bed water demineralisation systems can produce fully demineralised water up to a pure water quality of 0.1µS/cm. The mixed-bed resin absorbs the ions dissolved in water. Water flow from top to below for optimum flow through the resin bed.

Because of its pressure load-bearing capacity our mixed-bed demineraliser is versatile and reliably applicable. It is suited for the direct supply of pure water consumers.

Advantages are:

- compact design
- fast and easy cartridge replacement
- no waste water
- steady water quality
- bespoke design to individual user requirements



Scope of supply

Mixed-bed water demineraliser consisting of:

- 1 x pressure-tight demineralisation cartridge made of stainless steel (pressure-tight up to 10 bar)
- 1 x filling with permanent regenerable mixed-bed resins
- 1 x hose set for raw/pure water connection, screw connections 3/4"
- 1 x Conductivity meter with connection cable
Digital display, Measuring range 0.1 to 199.9 µS/cm
The measuring cell is integrated into the conductivity meter, potential-free limit contact
(adjustable 0.1; 1; 3; 5; 8; 10; 15; 20; 30; 50 µS/cm)

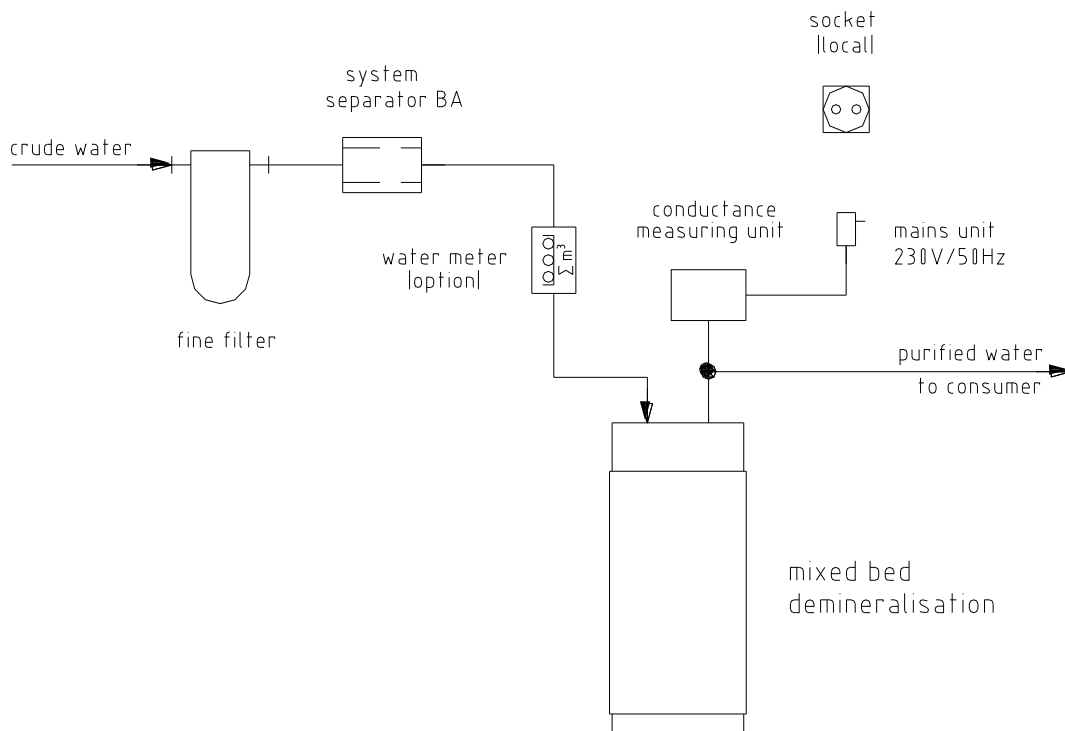
Notes / Installation conditions

- Technical data and general technical standards as well as the local installation conditions must be observed.
- The ambient temperature and possibly occurring radiation heat may not exceed 40° C.
- The installation site has to be frost-resistant.
- The installation site has to be free from solvent, colorant, varnish and chemical vapours.
- The exhausted mixed-bed cartridges must be sent to us to be regenerated in our service station. For that reason it is recommended to have a replacement cartridge available on site to maintain the regeneration process until the exhausted cartridge is sent back regenerated by us.

Accessories

System separator DN 20 **Art.-No. 503.101**
Solenoid valve DN 20 **Art.-No. 004.068**

Installation schematics



Technical data		VE 12	VE 17	VE 22	VE 26	VE46	VE 100
Flow capacity	l/h	300	700	950	1000	1600	2500
at differential pressure	bar	1.3	1.4	2.0	2.0	2.5	4.0
Capacity at 300 $\mu\text{S}/\text{cm}^{-1}$ ¹⁾	Ltr.	1400	2000	2800	4000	6000	13000
Capacity at 600 $\mu\text{S}/\text{cm}$	Ltr.	700	1000	1400	2000	3000	6500
Mixed-bed resin volume	Ltr.	12	17	22	26	46	100
Operating pressure min./max.	bar	2 / 10					
Water temperature min./max.	°C	5 / 40					
Ambient temperature max.	°C	35					
Electrical connection	V/Hz	230 / 50					
Power consumption	VA	3 - 15					
Measuring range (digital display)	$\mu\text{S}/\text{cm}$	0.1 – 199.9					
Measuring accuracy		Class 2					
Connection input/output		R 3/4" (female thread)					
Diameter Ø	mm	237	237	237	237	237	363
Height H 1 ca.	mm	590	670	785	885	1337	1207
Height H 2	mm	400	480	600	700	1150	1110
Weight ca.	kg	13	17.5	23.5	28	47	104
Art.-No.		510.224	510.239	510.228	510.243	510.230	510.244
Art.-No. replacement cartridge without conductivity meter		510.225	510.240	510.229	510.241	510.231	510.242

¹⁾ Total salinity corresponding approximately 300 $\mu\text{S}/\text{cm}$ conductivity in mains water and a limiting conductivity of 20 $\mu\text{S}/\text{cm}$ in pure water.

Dimensions

