

Demineralizers, behropur®, Behr



behropur® mixed bed ion exchangers supply fully demineralized water in compliance with the following specifications:

- Quality 3 in the sense of the classification pursuant to DIN ISO 3696:1987 – Water for analytical purposes
- Pharmaceutical specification pursuant to VDI guideline VDI 2083 – Cleanroom technology. quality, generation, and distribution of ultrapure water
- European and German Pharmacopoeia (Deutsches Arzneimittelbuch, DAB)
- behropur® mixed bed ion exchangers contain resins of tested quality.

Absolutely even distribution of water within the unit ensures optimum utilization of the exchanger capacities for water with a very low conductivity over the whole capacity of the demineralizer.

① behropur® demineralizers with unpressurized gravity-flow output

Practical mixed bed (anionic & cationic) ion exchanger in an especially thick-walled, robust blue polyethylene container with gravity-fed unpressurized output to a reservoir. It is also ideal for second stage deionization of output from reverse osmosis units and for use in aquaria containing particularly sensitive fish species.

- Can be connected directly to the water line and is immediately ready for operation.
- Since the water enters at the bottom of the canister, air is automatically displaced.
- The polyethylene slit-jet does not provide breeding ground for bacteria.
- The slit-jet unit is robust and easily cleaned. It is impervious to damage resulting from mechanical stress or water pressure.
- The slit-jet unit is sealed into the canister base by means of a special Behr thermal fusion process. A secure and leak-proof bond results.
- Conductance meter is mounted directly on canister.
- The B 5 and B 10 canisters may be wall-mounted using the provided mounting brackets.
- Automatic shutoff at preselectable limits and levels.
- Conductance is monitored by meter mounted directly on resin canister. Also available with remote-location meter.

Performance data

Model	Capacity at 10°dH	Max. flow rate l/h	Dia. cm	Height cm
B5	500 l	50	16	53
B10	1000 l	100	21	63

Type	Version	Order No.
B5	complete with conductivity meter	93 48 20005
B10	complete with conductivity meter	93 48 20010
B5Z	Second cartridge	93 48 20050
B10Z	Second cartridge	93 48 20110
B5A	with conductivity meter, limit switch and solenoid valve	93 48 50005
B10A	with conductivity meter, limit switch and solenoid valve	93 48 50010

Capacity: cut-off at 20 µS



② behropur® demineralizers with nylon resin canisters - operating pressures up to 8 bar

User-friendly and reliable mixed bed ion exchanger for low to medium volume high purity water requirements. Optimal for glassware washers, general laboratory use and for smaller industrial applications. Suitable for second stage purification in conjunction with reverse osmosis units.

- Optimal exploitation of the full ion exchange capacity by means of absolutely uniform water distribution through the resin bed.
- May be connected directly to water supply without a pressure reducer.
- Resistant to load cycles.
- Conductance is monitored by meter mounted directly on resin canister; also available with remote-location meter.
- Optional automatic shutdown at preselectable limits and levels.

Performance data

Model	Capacity at 10°dH	Max. flow rate l/h	Dia. cm	Height w. CM	Height canister cm
B10dN	1200 l	300	21	68	55
B22dN	2400 l	500	21	112	98
B45dN	5500 l	800	26	125	110

Type	Version	Order No.
B10dN	complete with conductivity meter	93 48 30011
B22dN	complete with conductivity meter	93 48 30023
B45dN	complete with conductivity meter	93 48 30046
B10dNZ	Second cartridge	93 48 30111
B22dNZ	Second cartridge	93 48 30123
B45dNZ	Second cartridge	93 48 30146
B10dNA	with conductivity meter, limit switch and solenoid valve	93 48 50112
B22dNA	with conductivity meter, limit switch and solenoid valve	93 48 50123
B45dNA	with conductivity meter, limit switch and solenoid valve	93 48 50146

Capacity: cut-off at 20 µS



③ behropur® mixed bed stainless steel ion exchange units - operating pressures up to 10 bar

Standard canister made of V4A stainless steel with widespread applicability. Useful for water supply of lab glassware washers, general laboratory pure water supply and low-demand industrial applications. Also suitable as a second stage purification following reverse osmosis units.

- Optimal exploitation of the full ion exchange capacity by means of absolutely uniform water distribution through the resin bed.
- Throughput rates up to 700 l/h.
- May be connected directly to water supply without a pressure reducer.
- Resistant to damage from water pressure peaks and variation.
- Hard rubber collars vulcanized onto the base and top of the canister provide effective protection.
- Convenient carrying handles molded into the upper protective collar.
- Conductance monitor with meter mounted directly on resin canister. Also available with remote-location meter.
- Automatic shutdown at preselectable limits and levels.

Performance data

Model	Capacity at 10°dH	Max. flow rate l/h	Dia. cm	Height w. CM	Height canister cm
E28d	2800 l	500	24	74	60
E40d	4000 l	700	24	84	70

Type	Version	Order No.
E28d	complete with conductivity meter	93 48 40028
E40d	complete with conductivity meter	93 48 40040
E28dZ	Second cartridge	93 48 40128
E40dZ	Second cartridge	93 48 40140
E28dA	with conductivity meter, limit switch and solenoid valve	93 48 50128
E40dA	with conductivity meter, limit switch and solenoid valve	93 48 50140

Capacity: cut-off at 20 µS

behrotest® float level switch for guide value meter

Article	Order No.
④ behrotest® float level switch SW2	10 48 50700

Particle-free water: behropur® filter FG 130

Working downstream of the ion exchanger, the filter fully retains even the finest particles to protect your valuable equipment. The transparent enclosure of the FG 130 allows you to check the condition of the filter cartridge at one glance.

Depending on the requirements, use a universal filter (5 µ) or an activated carbon filter (20 µ). Downstream filters must only be used with pressure-resistant behropur® ion exchangers. Unpressurized exchangers would be destroyed by the counterpressure. Risk of expensive consequential damages!

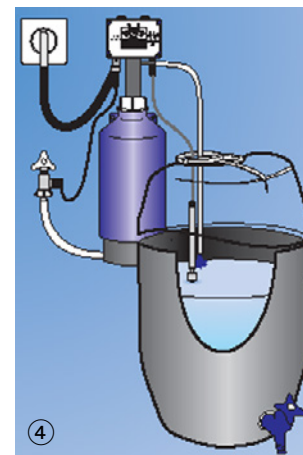
Article	Order No.
⑤ FG 130 Filter enclosure for filter partridges of a length of 5". Transparent polypropylene enclosure. Connections 3/4", maximum operating pressure 8 bar, max. temperature 50°C	10 48 60260
FE 130 Filter cartridge, polypropylene, 5 µ, length 5", max. pressure 6 bar, max. temperature 80°C	10 48 60261
AF 130 Filter cartridge, activated carbon, 20 µ, length 5", max. pressure 6 bar, max. temperature 50°C	10 48 60262

Accessories

Article	Order No.
⑥ Quick-acting coupling for demineralizer, pressure-tight	10 48 60271



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