



We understand water.

## Catalogue Supplement

**Residential applications | Sanitary and heating**

*Supplement to our General Catalogue 2021*

grünbeck

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International Sales  
☎ +49 9074 41-145  
☎ +49 9074 41-70145

Technical Service  
☎ +49 9074 41-333  
☎ +49 9074 41-120  
service@gruenbeck.com

Grünbeck  
Wasseraufbereitung  
GmbH  
Josef-Grünbeck-Str. 1  
89420 Hoehstaedt  
GERMANY

☎ +49 9074 41-0  
☎ +49 9074 41-100

www.gruenbeck.com  
info@gruenbeck.com

## Grünbeck water treatment – more than 70 years of experience



For more than 70 years now, Grünbeck Wasseraufbereitung has been one of the most renowned companies for water treatment in household, trade and industry in Europe. All around the globe, our customers trust in our expertise when it comes to ideal water qualities. The company's headquarters are located in the Bavarian city of Hoehstaedt/Donau, approximately 100 km west of Munich, where all of Grünbeck's products are manufactured – high-class German workmanship with high standards of quality. We have a tight net of sales and service locations in Europe and thus not only ensure the proximity to our customers, but also have quick response times.

Grünbeck offers the entire spectrum of water treatment for drinking water installations and industrial applications. Our product range covers filtration, softening and corrosion protection up to disinfection and pure water generation. Furthermore, Grünbeck also is in the position to offer an ideal solution for the treatment of heating water.



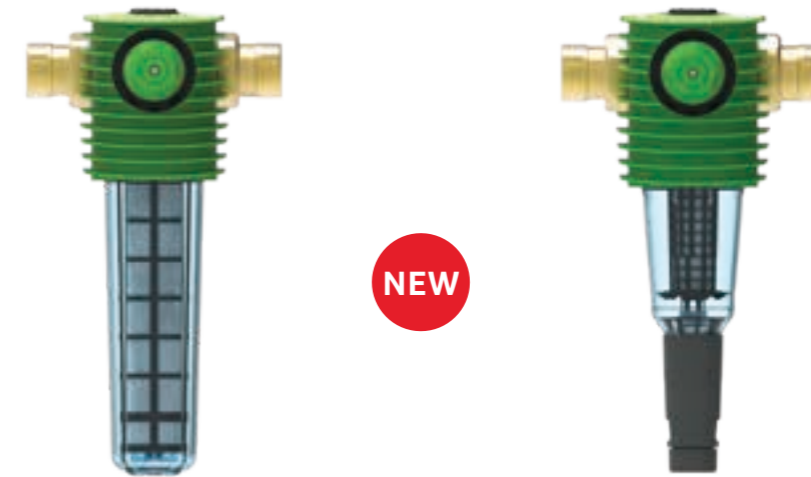
**Grünbeck Forum**  
at headquarters in Hoehstaedt, Germany

### Supplement to the General Catalogue 2021 | Residential Applications · Edition 1.0

The present document is a supplement to our General Catalogue for Residential Applications.

For our additional product range, please refer to our separate catalogues. All sales are always subject to the currently valid Standard Terms of Sale and Delivery of the country in which the respective order is placed and processed (as per order confirmation). As product availability varies from country to country, please address your Grünbeck representative for respective details, if required. Descriptions and illustrations in this catalogue are approximate and non-binding. Photographs may show products with special features or accessories that are not included in the standard product version. Grünbeck reserves the right to modify the products and deviate from the descriptions to the extent to which such modifications are reasonable and do not change the value of the product. The regulations and directives indicated in this catalogue refer to either European or German standards.

Subject to modifications and errors.



Fine filter BOXER KDX 2"<sup>1</sup>

Backwash filter BOXER RDX 2"<sup>1</sup>

Fine Filters  
Backwash Filters

### Fine and backwash filters BOXER X 1½" and 2"

For use in the commercial and industrial sector as well as in large buildings to protect the drinking water system according to DIN EN 806-2.

Available in variants fine filter KX and backwash filter RX. Optionally available with pressure reducer in variants KDX and RDX for continuous adjustment of the max. admissible operating pressure (DIN EN 806-2). Reduces water hammer and flow noises.

Pre-assembled, rotatable connection flange made of plastic including water meter screw connections for quick installation into the pipe in any flow direction and in only a few easy steps. Can be fastened by way of pre-assembled locking screws.

Including pressure gauge to conveniently read off the operating pressure. Integrated 12-digit date indicator as timely reminder of the next maintenance date for backwash/replacement of the filter element according to DIN EN 806-5.

#### Fine filter KX/KDX

Fine filter KX/KDX with replaceable filter element in standard version 100 µm. Special pore sizes of 50 µm and 5 µm for trade and industry can be retrofitted. Transparent blue filter cylinder that can be tightened by hand.

#### Backwash filter RX/RDX

Backwash filter RX/RDX with 100 µm filter element made of stainless steel. Optimised backwash technology with impeller for effective filter cleaning. Ergonomic handle for easy release of backwash. Flexible drain outlet DN 50 according to DIN EN 1717 for precise fit and tightness with integrated free outlet.

	Fine filter KX/KDX		Backwash filter RX/RDX	
	1½"	2"	1½"	2"
Connection diameter [R]	1½"	2"	1½"	2"
Flow rate BOXER KX/RX				
Without pressure reducer, Δp = 0.2 bar [m³/h]	10.6	12.0	8.6	9.2
Δp = 0.5 bar [m³/h]	17.0	19.2	13.3	14.6
Flow rate BOXER KDX/RDX				
with pressure reducer, acc. to DIN EN 1567 [m³/h]	9.1	14.0	9.1	14.0
Installation length without screw connections [mm]	160	160	160	160
with screw connections [mm]	283	277	283	277
Overall height BOXER <sup>2</sup> [mm]	509	509	488	488
Height for replacement of filter elements [mm]	> 390	> 390	–	–
Order no. BOXER X without pressure reducer	101845000000	101885000000	101540000000	101545000000
Order no. BOXER X with pressure reducer	101890000000	101895000000	101580000000	101585000000

#### Accessories

- Drain connection DN 50 with siphon according to DIN EN 1717 for BOXER RX/RDX (refer to General Catalogue for Residential Applications, page 39)
- Replacement filter elements for BOXER KX/KDX (refer to General Catalogue for Residential Applications, page 20)
- Adapter kits for the replacement of existing filters (refer to General Catalogue for Residential Applications, page 19)

<sup>1</sup> DVGW certification pending

<sup>2</sup> Overall height BOXER RX/RDX incl. outlet funnel DN 50

**Specifications**

- Dimensions (w x h x d)  
525 x 912 x 580 mm
- Max. water/ambient temperature 30/40 °C
- Power supply 100 - 250 V, 50/60 Hz
- Nominal pressure PN 10
- Operating pressure min. 2 bar/max. 8 bar



**NEW**

Water softener softliQ:MD12i

**Water softener softliQ:MD12i**

Fully softened water < 0.1 °dH for trade and industry.

Compact twin water softener with two separate control heads in alternating operation and full salting for permanent soft water < 0.1 °dH. A complete regeneration takes place as soon as the exchanger in operation is exhausted. The second exchanger continues to ensure flawless operation. The water softener softliQ:MD12i works with a constant capacity figure. The nominal flow rate (1.2 m³/h up to a raw water hardness of 15 °dH) must not be exceeded under any circumstances. For use in the commercial and industrial sector only. Water demand, for instance for reverse osmosis systems, air conditioning systems, heating systems, laboratories, restaurants and catering and many more.

The intelligent control unit and the 4.3" touch display enable easy and intuitive start-up and operation of the system. The detachable brine tank simplifies hygienically clean maintenance. Via LAN and Wi-Fi, the system can easily be connected to Grünbeck's myProduct app. Furthermore, the system features a lid with Soft-Close function, a water test kit for hardness determination, an audio signal as well as flexible connection hoses. The connection block R 1" with water meter screw connections has an installation length of 190 mm without the screw connection and 271 mm with the screw connection. Integrated in the connection block are: a non-return valve, two shut-off valves, two sampling valves for untreated and treated water as well as a dosing point for the optional connection of dosing systems.

**Additional features of the softliQ:MD12i:**

- Disinfection unit
- Programmable output, e.g. as connection for delivery pump for regeneration water or regeneration signal to further systems
- Illuminated LED ring as a visual signal and illumination of the brine tank's interior
- Salt supply indicator for continuous monitoring and early notification
- Water sensor to indicate uncontrolled water leaks
- 2 x iQ Comfort connections for easy connection of Grünbeck systems (e.g. exaliQ:KC6e/SC6e)
- Fault signal contact (collective fault signal)
- Drain connection DN 50 with siphon according to DIN EN 1717 included in the scope of supply

Water softener	softliQ:MD12i
Nominal flow (0 °dH, 0 °f, 0 mol/m³) [m³/h]	1.2
Pressure loss at nominal flow [bar]	0.5
Nominal capacity (exchangers in alternating operation) [m³ x °dH   mol]	2 x 15   2 x 2.7
Capacity of brine tank [kg]	95
Order quantity per pallet, 800 x 1,200 mm [pcs]	2
Dimension of connection block ["]	1
<b>Order no.</b>	<b>187 140</b>

**Accessories**

- Supplementary soft water outlet, supplementary blending valve, delivery pump for regeneration water and many more (refer to General Catalogue for Residential Applications, page 39)
- Dosing systems exaliQ:KC6-e/SC6-e (refer to General Catalogue for Residential Applications, page 29)



Your advantage: Extension of warranty by 12 months when you register your product



**NEW**

desaliQ inline control module



desaliQ basic filling module

**Tool for heating water treatment – desaliQ inline control module**

Designed as a portable, ready-to-connect tool for filling new systems as well as for rehabilitation and partial flow demineralisation or partial flow softening of existing systems, consisting of:

- Circulation pump with high circulation capacity including non-return valve
- Two conductivity sensors to measure the pure and heating water as well as a flow sensor
- Intelligent control unit to monitor and control the treatment programs

Thanks to the desaliQ inline control module, closed heating and cooling circuits with a water temperature of up to 80 °C can be treated during full operation. The intelligent control unit is the core of the desaliQ inline control module and allows qualified specialists to easily and intuitively select the required type of treatment in various operating modes. All parameters and values are clearly shown on a large colour display. Thanks to the robust operating keys, the device meets all the requirements for reliable use on a construction site.

**Tool for initial filling – desaliQ basic filling module**

For automatic filling of heating and cooling systems with fully demineralised water, consisting of:

- Solenoid valve to shut off the water flow at the end of capacity of the connected treatment cartridge
- Flow sensor and conductivity sensor
- Intelligent control unit to monitor and control the initial filling

The desaliQ basic filling module demonstrates its full power when filling the system with fully demineralised water. However, the versatile tool can also be used to fill systems with softened water. In this case, too, the program stored in the control unit monitors the capacity of the cartridge.

desaliQ	Inline control module	Basic filling module
Nominal connection diameter	¾"	¾"
Power supply [V]	230	230
Nominal pressure [PN]	6	6
Nominal flow [m³/h]	0.9	1.3
Weight [kg]	9.3	5.4
Max. water temperature [°C]	80	35
<b>Order no.</b>	<b>707000030000</b>	<b>707000050000</b>

Heating Water  
Condensate Neutralisation



Mixed bed cartridge desaliQ:MB9



desaliQ resin bags



desaliQ inline filter module

### Mixed bed cartridge desaliQ

Hot water resistant desaliQ:MB9 for refilling, make-up water feed and circulation water treatment during operation.

Mixed bed ion exchanger system for full demineralisation of water of drinking water quality or for residual demineralisation of partially demineralised water. Particularly suitable for the initial filling or make-up water feed of heating systems as well as for full demineralisation of the heating circuit during heating operation. Thus, the desaliQ:MB9 is also suited for the rehabilitation of heating circuits in combination with the **desaliQ inline control module**. The cartridge is suitable for use with **desaliQ resin bags** for easy and quick replacement of the resin – even at the place of use. Cartridge made of plastic with low dead weight, carrying handles and easy cliQ-lock. Furthermore, a flow stabiliser as well as a measuring device to determine the conductivity are installed in the outlet.

### desaliQ inline filter module

Hot water resistant filter module for the rehabilitation of heating and cooling circuits during operation.

By means of a total of six filter elements with a pore size of 5 µm, the desaliQ inline filter module efficiently filters impurities from the water. Furthermore, the integrated high-performance magnet makes sure that metal and magnetic dirt particles are reliably removed from water. After the treatment, the magnetic separator can be cleaned quickly and easily, so that the filter module is ready for use again in no time at all. The filter module is used in the mixed bed cartridge desaliQ:MB9 in combination with the proven desaliQ resin bags, thus allowing simultaneous filtration and full demineralisation of the circulation water.

desaliQ: <sup>1</sup>	MB9
Nominal connection diameter	¾"
Resin bag of 6 litres	2
Capacity < 10 [µS/cm x m³]	320
Capacity < 50 [µS/cm x m³]	510
Nominal flow [m³/h]	0.9
Shipping weight [kg]	17
Max. water temperature [°C]	65
<b>Order no.</b>	<b>707 455</b>

<sup>1</sup> desaliQ hose kit (order no. 707 850) for connection to the treatment group or the filling section in combination with the desaliQ connection adapter.

Accessories	Order no.
desaliQ resin bags (2 bags of 6 litres each)	707 435
desaliQ inline filter module	707000010000
desaliQ inline replacement filter elements (6 pcs)	707000020000



#### Company profile

Grünbeck  
Wasseraufbereitung GmbH  
Josef-Grünbeck-Str. 1  
89420 Hoechststadt  
GERMANY

**General manager**  
Dr. Günter Stoll

**Staff**  
Approx. 660

**Sales organisation**  
Subsidiaries and authorised representations in Germany, representations in all EU member countries as well as associated partners world-wide

**Certifications**  
DIN EN ISO 9001, ISO 14001, SCC\* by TÜV Management Service, OHRIS

**Product certifications**  
DVGW, SVGW, ACS, EAC

**Approvals**  
for welding, specialised welding company according to DIN EN ISO 3834-3. Manufacturing of pressure equipment according to the Pressure Equipment Directive 97/23/EC as per AD 2000 data sheet HPO and DIN EN 13480. Manufacturer of steel constructions according to DIN EN 1090. WEEE reg. no.: DE 77585882



Grünbeck Wasseraufbereitung GmbH  
Josef-Grünbeck-Str. 1  
89420 Hoechstädt  
GERMANY

+49 9074 41-0  
+49 9074 41-100

info@gruenbeck.com  
www.gruenbeck.com



More information at  
www.gruenbeck.com



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in accordance with DIN EN ISO 9001,  
ISO 14001 and SCCP  
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