



NEW

exaliQ – your elixir for exact dosing

Intelligent dosing technology for optimum pipe protection

grünbeck

 **YEARS**
1949–2019



Natural dosing by Grünbeck.

Comparison of phosphate-containing foods

| Phosphate content in foods* | (per kg or litre) | |
|-----------------------------|-------------------|----------------------------------|
| Milk 3.5 % | 0.920 g | <div style="width: 10%;"></div> |
| Low-fat curd | 1.890 g | <div style="width: 20%;"></div> |
| Evaporated milk 10 % | 2.460 g | <div style="width: 25%;"></div> |
| Emmental cheese 45 % | 8.600 g | <div style="width: 90%;"></div> |
| Yeast | 18.000 g | <div style="width: 100%;"></div> |
| Peanuts | 4.100 g | <div style="width: 45%;"></div> |
| Flour (wheat) | 3.720 g | <div style="width: 40%;"></div> |
| Rice | 3.250 g | <div style="width: 35%;"></div> |
| Oat flakes | 4.007 g | <div style="width: 42%;"></div> |
| Potatoes | 0.500 g | <div style="width: 5%;"></div> |
| Beans | 4.190 g | <div style="width: 45%;"></div> |
| Apples | 0.110 g | <div style="width: 1%;"></div> |
| Drinking water | | |
| from the water works | 0.002 g | <div style="width: 0.2%;"></div> |
| with exaliQ dosing | 0.005 g | <div style="width: 0.5%;"></div> |

* Daily requirement: 0.7 - 0.8 g

Two small pieces of chocolate contain just as much phosphate as 10 litres of water treated with exaliQ.



Intelligent addition of mineral substances for the carefree enjoyment of water.

At Grünbeck, it is our goal to redefine water quality all over the world. In the long term, deposits and scaling unfortunately often influence the enjoyment of pure water. This may affect your entire pipe system and even your fittings and appliances. In order to counteract this and to prevent cost-intensive damage, we recommend Grünbeck's intelligent exaliQ system for your dosing. In case of rehabilitation measures, dosing – following the flushing of pipes – can act as a protective layer against consequential damage. In new buildings, on the other hand, dosing represents a preventive measure to avoid

expensive damage in the first place. That way, you maintain the value of your installations and your home. We offer exactly the right kind of mineral solutions for a wide range of applications. Depending on the mineral substance dosed, scale deposits in the pipe system can be avoided. This reduces the energy loss of your household appliances caused by calcified pipes. Furthermore, and if required, the pH value can also be increased in order to prevent metal materials from dissolving. To maintain the value of your home and for more quality of life.

Precisely designed for your pipes.




We at Grünbeck want to cover your individual application scenarios in the best way possible. This is why we have completely revised our proven product line for dosing and developed the new exaliQ dosing systems. Reliable Grünbeck technology for you – more advanced and innovative than ever before.

You can choose between the compact system exaliQ:KC and the system with suction lance exaliQ:SC. The two new dosing systems not only convince due to their flawless Grünbeck design but also thanks to their completely new technical innovations. Apart from the systems, the mineral solutions were optimised as well. We have condensed the number of formulations, improved them and developed new canister sizes to better meet your needs. Thanks to the intelligent systems, dosing runs completely automatically. Your dosing system takes care of proper metering and dosing for you.

Trust in natural, demand-based dosing

With Grünbeck dosing, mineral substances that are harmless to health are added to the water in a perfectly harmonised composition. These are mainly silicates and phosphates (silica). Good to know: Two pieces of chocolate contain just as much phosphate as 10 litres of water treated with exaliQ dosing.

exaliQ mineral solutions:

-  **Natural:** Mineral substances in food quality
-  **Effective:** Reduction of scale deposits in pipes and fittings
-  **Safe:** Protective layer on the inside of the pipe to prevent corrosion

Intelligent dosing for your needs

Discover the advantages of your exaliQ at a glance. Your automatic dosing system in combination with the matching mineral solution. Together, the two products make up your elixir for exact dosing. Versatile, advanced and user-friendly.



Intelligent:

Thanks to the green **LED ring**, the exaliQ system can communicate various status messages. In addition, your system permanently checks the filling level of the mineral solution and alerts you in good time when the filling level is low or an empty signal is pending.



Intuitive:

The modern, intuitive **control panel** features a backlight which changes subject to the respective system status. That way, you are always kept informed on the operating states of your exaliQ system. Thanks to distinct keys, you will be able to operate the system with ease. The highest level of user-friendliness is guaranteed.



Convenient:

The tank of the exaliQ:KC system features an easy-to-install **bayonet lock** which allows you to change the 3-litre mineral solution quickly and effortlessly, in no time at all.

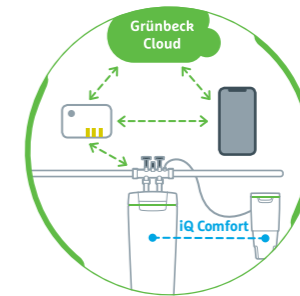


Demand-based:

The new, **consumption-optimised and stackable canisters** of 15 and 60 litres allow for demand-based dosing – even in case of large buildings. The new sizes and canisters make handling the mineral solutions a lot easier. They can be stacked more easily than the preceding models and are sturdier, too. For the compact system, practical 3-litre bottles are available.

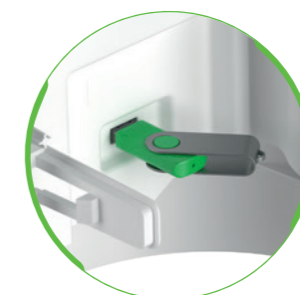
Innovative:

With the exaliQ dosing system, you will experience **connectivity** in your home in a completely new way. To this end, Grünbeck has developed a special communication interface. Via the intelligent and at the same time convenient iQ Comfort connection, you can connect your exaliQ with other Grünbeck systems, such as the softliQ:SD and softliQ:MD water softeners. Your exaliQ can then transmit system data which your softliQ system in turn passes on to Grünbeck's myProduct app. You will be informed at any time – even when you are on the move.



Advanced:

The newly developed, intelligent control unit continuously records the dosing data over a period of an entire year and you can **easily and conveniently read them out** via a USB flash drive. Getting to the interface is easy, too. You only need to open the hinged door of the equipment compartment.

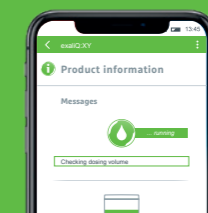


Ergonomic:

Your exaliQ offers **ease of installation** in every situation. The convenient click bracket enables you to install the system either in a horizontal or vertical position. In addition, the exaliQ dosing system features a flexible wall spacer to prevent any possible twisting of the device.



Access point for direct connection to the Grünbeck mySettings app. Specifically developed for the specialist installer. For extended operating options, maintenance support and visualisation of system data.



Compact dosing with high impact.

Convenient compatibility of your systems:

- ✓ Thanks to the conversion kit, retrofitting compact systems with a suction lance is possible without any problems (order no. 117 495)



The dosing tank of the compact system **exaliQ:KC** is directly mounted at the dosing system and holds 3 litres of exaliQ mineral solution. Thanks to the convenient bayonet lock, the tank containing the mineral solution can be replaced easily and quickly.

Thanks to the click bracket at the rear, the system can be installed in a horizontal or vertical position. The useful wall spacer prevents the dosing system from twisting.

Your dosing device thinks for you. Dosing and metering of the mineral substances is completely automatic.

Demand-based performance for a clear pipe.

Also covering larger demands in a flexible way:

- ✓ Demand-based dosing for residential buildings of 2 – 10 units
- ✓ Thanks to the exaliQ:SC conversion kit, it is possible to change from 15-litre canisters to 60-litre canisters (order no. 117 490)



The **exaliQ:SC** series consists of systems with suction lances where the dosing tank is placed separately on the floor, right beside the system. The mineral solution is drawn from the canister via the suction lance and dosed into the pipe by means of the exaliQ's pump unit. The suction lance draws the mineral solution from Grünbeck's consumption-optimised, stackable canister which comes in sizes of 15 and 60 litres. Both systems, the system with suction lance as well as the compact system, are also available as variants for operation in combination with the softliQ water softeners. These systems not only save you money, but valuable time as well because an additional adaptation of the pipe for the installation of these combination devices is not required.

The product variants exaliQ:KC6-e and exaliQ:SC6-e for softliQ:SD/MD softeners already come with a connecting cable. This cable is used to establish the data exchange via the communication interface iQ Comfort.

WATER KNOWLEDGE

The safety of your pipes and maintaining the value of your home. This is what Grünbeck's exaliQ dosing systems in combination with the exaliQ mineral solutions take care of. By dosing natural mineral

substances (phosphates and silicates) into your drinking water, a protective layer is generated on the inside of the pipe which effectively averts corrosion damage. In addition, it prevents the precipitation of scale. For the safety you deserve.

| exaliQ: | KC6 | SC6 | SC10 | SC20 | SC30 | KC6-e | SC6-e |
|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Nominal connection diameter | 1" | 1" | 1 1/4" | 1 1/2" | 2" | 1" | 1" |
| Max. operating range [m³/h] | 6 | 6 | 10 | 20 | 30 | 6 | 6 |
| Packing unit of dosing agent [l] ex factory | 3 | 15 | 15 | 15 | 15 | 3 | 15 |
| Installation length without screw connections [mm] | 140 | 140 | 140 | 190 | 240 | wall mounting | wall mounting |
| with screw connections [mm] | 222 | 222 | 231 | 312 | 356 | wall mounting | wall mounting |
| Order no. | 117 400 | 117 405 | 117 410 | 117 415 | 117 420 | 117 460 | 117 465 |

The DVGW certification for the exaliQ dosing systems is pending.

exaliQ mineral solutions – precisely designed for your pipes

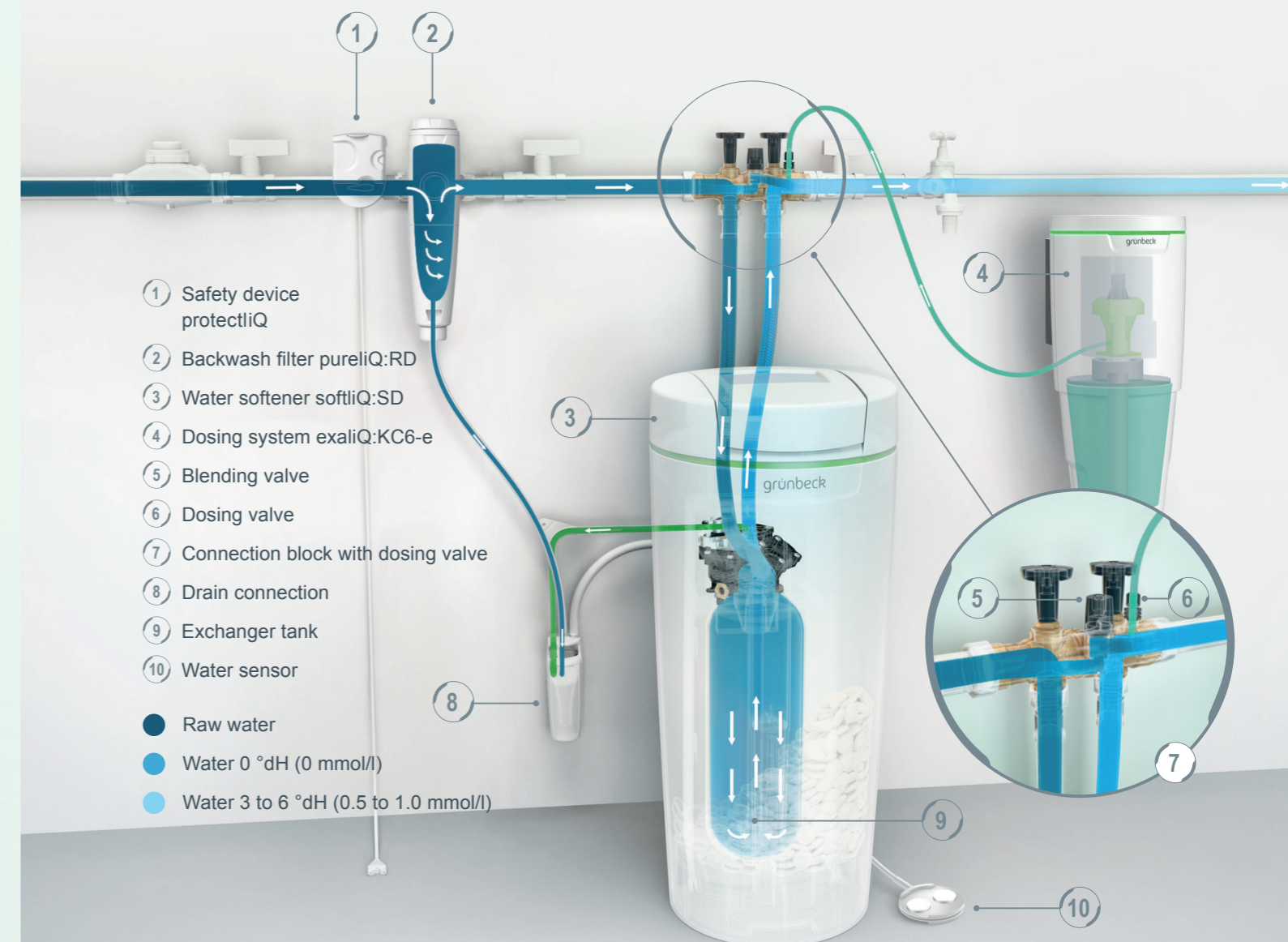
The new exaliQ mineral solutions have optimised formulations which ensure their clear distinction from each other in terms of their application. For optimum dosing that creates clarity.

| Mineral solution | Effect | Materials | Field of application |
|------------------|---|---|--|
| exaliQ control | Rehabilitation | Galvanised pipes | For the rehabilitation of corroded zinc pipes (often recognisable by brown-coloured water). After the rehabilitation (approx. 6 months): Change to a different exaliQ dosing agent. |
| exaliQ safe | Corrosion protection | Galvanised pipes and copper materials/brass | Corrosion protection for water in the hardness range soft to medium (up to 14 °dH (2.5 mmol/l)) as well as downstream of water softeners. For water temperatures up to 60 °C. To reduce the introduction of heavy metals (e.g. lead). |
| exaliQ safe+ | Corrosion protection & Hardness stabilisation | Galvanised pipes and copper materials/brass | Hardness stabilisation and corrosion protection for water up to 21 °dH (3.75 mmol/l) and to reduce the introduction of heavy metals (e.g. lead). For water temperatures up to 60 °C. In case of a water hardness > 21 °dH (3.75 mmol/l), we recommend a water softener to treat the hardness and then to switch to exaliQ safe. |
| exaliQ pure | Hardness stabilisation | Galvanised pipes and copper materials/brass | For circulation water in solar systems or the installation of the dosing technology in the cold water inlet to the decentralised water heater. For high temperatures up to 80 °C and/or hard water with a total hardness > 21 °dH (3.75 mmol/l) (total alkalinity > 15 °dH (5.4 mmol/l)). <i>Consultation with Grünbeck prior to initial application recommended.</i> |
| exaliQ neutra | Increase of pH value | Galvanised pipes and copper materials/brass | Corrosion protection for soft water with high carbon dioxide concentrations as well as downstream of water softeners. Corrosion protection due to the binding of free carbon dioxide and an increase of the pH value. <i>Consultation with Grünbeck prior to initial application recommended.</i> |

Perfect interaction for maximum safety

The perfect interaction of the exaliQ dosing systems and the protectliQ safety device provides maximum safety for your pipes.

Your exaliQ dosing system reliably protects your pipe system from corrosion damage and thus maintains the value of your home. Depending on the respective mineral substance dosed, scale deposits in the pipe system can also be avoided. The ideal combination to go with it: the safety device protectliQ. It monitors the installation site of your system and immediately shuts off the water supply at an appropriate location in case of uncontrolled water leaks. For the all-round protection of your home you deserve.



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Well-proven Grünbeck technology.

Advanced and more innovative than ever before.

