# Data sheet

## Labowater K

protects the natural quality of our drinking water

The technology used by **Labowater K** leaves the valuable active ingredients in the water

**Labowater K** works:

- without harming the environment (chemical-free)
- without electricity
- without wastewater and
- without salt


The special polymeric LabowaterPUR granulate guarantees the effective formation of countless seed crystals. The microscopic particles are then discharged with the water.

**Labowater K** – Reliable technology for people and buildings

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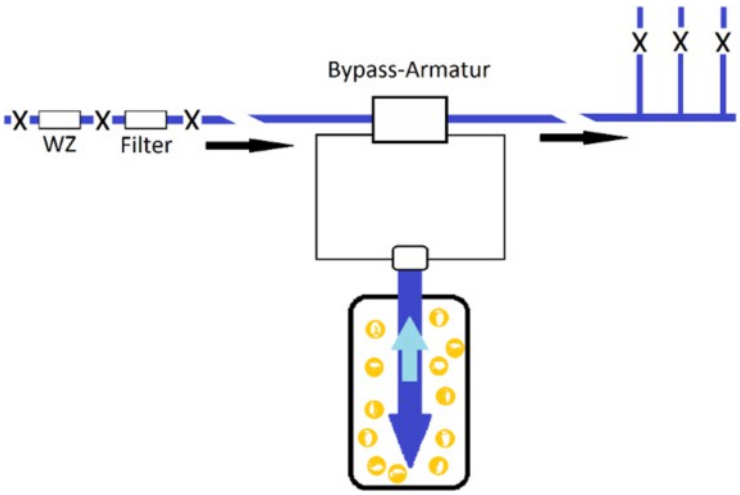
Advantages:

- Designed for medium to high degrees of hardness (> 8°dH)
- No need for separate electrical or waste water connections
- Full effectiveness up to 80 °C and heating power < 3 watts/cm²
- Consistently high effectiveness until the polymer catalyst granulate is replaced after approx. 2-3 years (depending on consumption)
- User-friendly operation and maximum functional reliability
- Proven in practice and tried and tested




| Labowater | | K1 | K2 | K3 |
|---|---|---|---|---|
| Residential units approx. | | 1-2 | 2 | 9 |
| Connection | | 1 | 1 ¼" | 1 ½" |
| Consumption p.a. approx. | m³ | 150 | 900 | 2,000 |
| Max. flow rate | m³/h | 1 | 2 | 3 |
| Δp at max. flow rate | bar | 0.3 | 0.3 | 0.3 |
| Nominal pressure | bar | 10 | 10 | 10 |
| Maximum operating pressure | bar | 6 | 6 | 6 |
| Water T inlet, max. | °C | 30 | 30 | 30 |
| System diameter | mm | 235 | 235 | 275 |
| System height | mm | 750 | 1,080 | 1,550 |
| Weight when filled | kg | 18 | 28 | 76 |
| Item number | | 82.0100.115.101 | 82.0100.115.102 | 82.0100.115.103 |
| Replacement granulate | | 82.0110.215.011 | 82.0110.215.012 | 82.0110.215.013 |

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# Limescale protection solution for modern building services

**Labowater K** is a natural drinking water treatment and is particularly suitable for medium to high degrees of hardness. It protects the excellent quality of drinking water and its natural properties. The specially developed LabowaterPUR granulate forms so-called seed crystals in **Labowater** K, which are then flushed out through the pipe network. While the components of the drinking water remain unchanged, the entire installation and equipment are protected against stubborn deposits.
The **Labowater K** utilises a basic physical principle and combines proven and tested technology with the requirements of modern domestic plumbing. The flow paths in **the Labowater** K have been optimised so that the entire system can develop its highly efficient effect to the full. The devices do not require an external power supply or a waste water connection. The **Labowater** K 1-4 models are protected in the long term by separate insulation. The technology used in **the Labowater** K has been successfully tested for effectiveness with excellent results.
**Labowater K** uses a particularly macroporous ionic catalyst filling. The LabowaterPUR granulate initiates seed crystal formation through an oversupply of docking sites for calcium ions, thereby precipitating the lime dissolved in the water. After this process, the originally dissolved components are present in colloidal form. In this new state, the lime crystals formed do not adhere to pipe walls or other surfaces and are flushed out as invisible suspended particles through the connected extraction points. Depending on the quality of the incoming water and consumption, it is recommended that the filling be replaced after approximately 2 years. **Labowater** K preserves drinking water quality and meets the requirements of modern building technology. Graduated capacities and easy handling in the event of servicing result in particularly low operating costs. **Labowater** K can be used universally in everything from single-family homes to 235 residential units.
Only tested and proven technology is used in the **Labowater K** product series. The effectiveness of reducing limescale formation in accordance with DVGW worksheet W512 has been independently confirmed for the components used (Technology Centre Water TZW/Karlsruhe).
Result (TZW ref. CA 006/04):

Effectiveness factor f = 0.988 (=98.8%)

The requirements of DVGW worksheet W512 are met with regard to the achieved effectiveness factor.



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