

## GRANDER®: PROTECTION OF THE HEATING SYSTEM AND COSY WARMTH

### **GRANDER® benefits the heating system**

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In heating circuits, water finds very difficult and unnatural conditions. Rust formation is one of the major problems in the heating circuit. The often oxygen-rich heating water has a corrosive effect on heating pipes, boilers and fittings. The consequences are pitting, leakage and deposit formation. The heating water itself turns brown or black and smells bad. Lime deposits lead to a reduced heat transfer. Just one millimetre of lime scale on the heat exchanger increases energy consumption by approx. 6%.

### **GRANDER® takes natural and sustainable effect in the heating circuit**

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Through the addition of chemicals and through various treatment processes, an attempt to reduce technical difficulties is made. On the other hand, it will take away the last "spark" of vitality from the water. The mostly bad water quality in the heaters not only has a negative impact on the technology, but also on the living environment in heated rooms. The heat is often felt as dull and not pleasant. The GRANDER® water revitalization returns the heating water's carrying capacity, vitality and self-cleaning power. As a result, the contaminated and usually foul-smelling heating water will become clear and largely odour-neutral again within a few months because of the self-cleaning power gained again. Associated with this is an economic benefit and noticeably positive changes in the personal living space.

### **For more cosiness at home - while reducing energy costs**

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The revitalization of the heating water has a very positive effect on the living environment. The indoor climate is very pleasant and the warmth is cosy. You really feel like being carried away by the lively warmth and feel how comfortable living in heated rooms can be when the heating water is full of life and energy. Just as air is present in the water, there is water in the air, which is heated and revitalized by the radiator or the floor heating system. Cost savings by lowering the room temperature. Long-standing users of the GRANDER® heating revitalization report that the heating temperature could also be lowered due to the intense heat sensation. That enables energy savings. Because: 1 ° C temperature reduction means about 6% energy savings. The heating uses up about 80% of the energy needs of a household. Therefore, it is reasonable to use all possible ways to economise, such as installing the GRANDER® water revitalization system in the heater.

**GRANDER® effect: nowhere as clearly visible as in heating water - GRANDER® revitalized water in heating systems avails**

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- GRANDER® devices work without electricity and without chemicals
- Clean and odourless heating water
- Reduction of silting tendency due to a significant reduction in biofilm formation
- Lowering the susceptibility to infection
- Reduction or stabilization of corrosivity
- Reduction of deposition tendency
- Heating pipes, radiators, floor and wall heating become free again
- Reduction of outgassing by a reduced gas formation
- Energy saving
- Increased operational safety
- Optimization of operating parameters
- Improvement of the efficiency
- Increased protection of the system with regard to technical problems
- Optimization of current operating and maintenance costs

**A small selection of our satisfied customers:**

- Kindergarten Oberpullendorf, AT
- Hotel Tirolerhof, Attergau AT
- Urbida AG Immobilien, CH
- Heizungsbau Weyrich e.K., Wendel, DE
- and many more – see [www.grander.com](http://www.grander.com)

# GRANDER® PRESS INFORMATION HEATING



Images you may use free of charge:



Captions (from left to right):

1. GRANDER® circulation revitalization once implemented – long lasting effect
2. Before implementing GRANDER®-dirty, malodorous heating water – after implementing GRANDER®-clear water @Roland Defrancesco

**Images and logos in print quality (300 dpi) are available free of charge at:**

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