

## Maintenance and Cleaning of Heating Elements operating in Water

At high temperatures water liberates dirt and calcium depending on the soil conditions. The calcium will be left on the heating element which will then influence the function of the heating element as well as its time of living. By hard water we therefore recommend installation of a de-calcifying device before the heating element to ensure that the de-calcifying procedure is carried out at regular intervals.

### **General information:**

A heating element is produced for assembly in a unit.

The heating element is not produced for the end-user.

The unit in which the heating element is to be assembled will include an operation and maintenance manual in accordance with the requirements to the CE marking.

### **MAINTENANCE:**

- Ensure that the heating element is always operating under water – in order not to cause any defect.
- Carry out ventilation of the unit at regular intervals (each month) – if required at shorter intervals.
- **! ATTENTION: hot water may remain in the unit!**
- Clean and de-calcify the unit thoroughly min. twice a year, maybe more often depending on the hardness of the water and the soil conditions.

### **INSTRUCTION:**

- 1) Switch off the current to the unit, both to heating and control.
- 2) Switch off the water and empty the unit.  
!ATTENTION: Hot water may remain in the unit!
- 3) Disconnect the heating element.
- 4) Put the heating element in a bucket with a detergent / de-calcifier e.g. acetic acid.  
Do not get the electric-terminals wet.
- 5) Wait for the effect of the detergent / de-calcifier (from 30 min. to 4 hours depending on the quantity of calcium). To remove a thick layer of calcium / dirt we recommend a **soft** tool e.g. of wood.
- 6) Rinse the heating element with clean water. Do not get the electric-terminals wet.
- 7) Connect the heating element and the water and finally switch on the current.  
Operation of the unit (see the operation manual).

***When you dispose of the dirty water please take into consideration your environment!***

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