

4.4 Cleaning and descaling steam generator



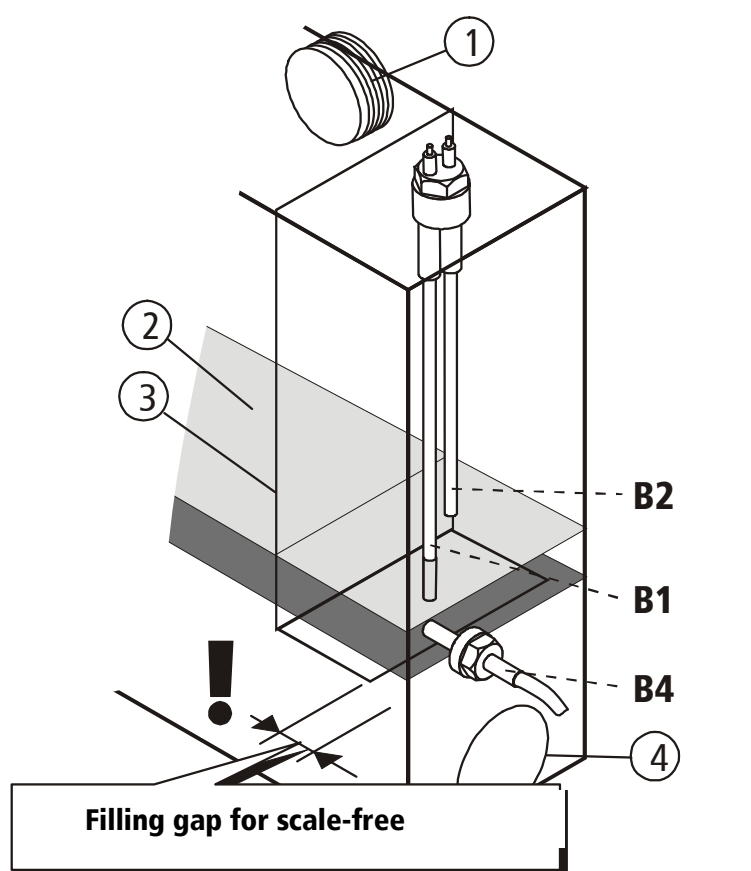
Check:

Descaling of the steam generator is necessary when the pins of the water level probe or alternatively the opening for the steam generator outlet have a coating of scale, or when the immersion heating element burns out due to excess scaling.



Information:

When a lot of scale has collected due to water fluctuation in the settling area in the steam generator, it can be that the longer pin on the water level probe is covered in scale and therefore makes contact and completes the electrical circuit. This means that when the unit is switched on and the steam generator is empty, the immersion heating element will immediately switch on although there is not enough water in the steam generator.



1 = Steam outlet opening

2 = Steam generator

3 = Settling chamber

4 = Steam generator - opening for immersion heating element

B1 = Water error - water level

B2 = Water standing – water level

B4 = Preheat probe



Notice:

When the immersion heating elements become over heated, the error code E27 is triggered in the excess temperature probe plugged into the convection heating element. The immersion heater will switch off before burning out.

**Safety:**

- A scale-free steam generator lowers the danger of damage due to low pressure.
- Flush all descaling agents thoroughly out of the steam generator. Residue can lead to foaming in the steam generator.
- The descaling process should only be performed by a CONVOTHERM-trained specialist.

**Attention:**

- **The descaling agent must never be heated!!**
- **The vapors are irritating! Provide enough ventilation!!**

**Notice: Descaling agent**

- Vinegar or lemon acid is bio -degradable.
- Otherwise we recommend using the Convotherm descaling agents:
 - Convocal** for normal scaling (anti-foam)
 - Convocal forte** → the stronger descaler for heavy descaling (anti-foam)
- When scale build-up is heavy, remove the immersion heating element and remove scaling mechanically before chemical descaling.

**Instructions – Descaling the steam generator:**

1. Unit main power supply must be disconnected with an all-pole isolation switch and ensured against switching on again! (If the fan is running → wait until it comes to a full stop!!)
2. Manually drain the steam generator through the steam generator outlet screw and close cap again.
3. Swing suction panel out.
4. In the steam outlet opening (hole behind the suction panel in the rear oven wall) fill the descaler in with the help of a hose with a funnel (amount dependent on the amount of the scale build-up; on 6.10 and 10.10 approx. 5 litres, on 10.20, 12.20, 20.10 and 20.20 approx. 10 litres).
As an alternative, the descaler can be filled in via the opening for the water level or the water inlet of the pressure loop.
5. Fill the steam generator using the hand shower through the steam outlet opening with so much water until the water spills out of the steam outlet.
6. After the working time, depending on the amount of scale build-up (max. 1 hour), drain and flush the steam generator. Repeat process as necessary.

**Attention:**

7. Before operating the CONVOTHERM unit, fill and flush the steam generator at least 5 x with cold water (with the hand shower in the steam outlet opening).
8. After flushing the steam generator, neutralize and clean the oven with original CONVOTHERM oven cleaner (Instructions refer to Service Handbook 4.3 Cleaning the inside of the unit, and the CONVOTHERM Handbook and the cleaner package).