



CASE STUDY:
Heidelberger Beton GmbH
Industry:
Cement Industry



Customer:
Heidelberger Beton GmbH, München
www.heidelbergcement.de.

- Project / Order:**
- Steam to heat water and aggregates: gravel and sand.
 - Immediate steam availability even after long shut-down periods.
 - Compact vertical design and therefore less demanding installation requirements.



Solution:
The CERTUSS steam generators Universal 500 – 1800 TC are characterized by the immediate output adjustment to the respective steam requirements which saves energy and thus costs.

Equipment:
2012: 2 x CERTUSS Universal 500 TC, steam output each 500 kg/h, fuel-fired.

Application:
The steam is used for a 4000 liter water-heater and six steam units.

The Universal TC model, the newest CERTUSS steam generator line.

Flexible steam for cement production.

The Heidelberg Cement Group has installed **CERTUSS steam generators** in nine locations throughout Germany since 1984.

The factory in Oberbrunn produces Ready-Mixed concrete for the construction of buildings, roads, and bridges as well as special cement.

Steam is used to heat water and aggregates like gravel and sand. It operates a 4000 liter water-heater and six steam units.

The trucks' tanks are filled with warm water, whereas the concrete would not exceed 10 °C.

Solution

The CERTUSS Universal 500 TC battery has a **steam output of 1000 kg/h.**

Some of other **benefits:**

- **Short heat-up time.** Full steam output is reached after a maximum of 5 minutes.
- Immediate output adjustment to the respective steam requirements which **saves energy and thus costs.**
- Thermomat control unit for **fully automatic operation.**
- Secure installation without foundation at **low space requirements.**

Installation and operation

The Installation and commissioning were carried out by the CERTUSS service team. Thus, the expensive TÜV control was not necessary. The steam generator Universal 500 TC belongs to the module category III (as per the guideline 97/23/EG for pressure vessels).

No permit is required for **installation and use in Germany.** CERTUSS service is qualified to carry out inspection (up to a working pressure of 20 bar).

Reiner Schmidt, technical manager:

‘We chose a battery plant to cover our base need. With a peak-production of 80 m³ concrete per hour, we turn on the second steam generator. The plant is located in 10 meters high directly next to the mixer platform. We chose CERTUSS again because the plant requires low space, it is robust and reliable.’