



Reference report



BOSCH

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Food manufacturer uses steam boiler with fully automatic operation

A new steam boiler of the Bosch Industriekessel brand Loos has been put into operation at the Mester Altländer Fleischwaren GmbH in Buxtehude. An important decision criterion for the new boiler system, apart from energy efficiency and reliability, was primarily the possibility of fully-automatic operation. Bosch Industriekessel was able to meet the company's demands for high-pressure steam boilers with the SUC automatic start-up, standby and shutdown control that it launched in March 2011. Compared with the old boiler system the new Universal UL-S boiler with natural gas firing also saves approx. 10 percent energy, the CO₂ emissions are reduced by the same ratio.

The SUC control and equipment variant enables easier operation of the steam boiler: The start-up and shutdown process is performed by pushing a button or by an external request signal. The automatic functions protect the system from unnecessary strain during cold starts and in heat maintenance mode. Where necessary, the SUC protective functions will also intervene in normal mode, to prevent water entrainment and associated problems such as brining, corrosion and water impact. All of the automatic functions can be accessed by touch screen on the system's LBC boiler control. This control variant provides process reliability for

the meat processing plant. In addition, this relieves the operating personnel of extensive manual operations such as the gradual opening of the main steam valve.

The system's additional equipment includes an integrated economizer for economical, eco-friendly operation. The SET feed water partial deaeration plant provides the steam boiler with thermally processed feed water and absorbs the backflow of condenser water. In addition, the system has a teleservice connection allowing operating data to be accessed, analysed and optimised remotely.

The boiler, with its steam capacity of 2000 kilograms per hour, supplies the process steam for a range of production steps, such as cleaning, cooking, sterilisation and boiling for up to 50 tons of meat and sausage daily.

The turnkey boiler system was designed, moved into the factory and installed by Hamburg-based plant construction company Tewe GmbH. The Sales and Service organisation North of Bosch Industriekessel GmbH provided the company with assistance regarding boiler technology and commissioning.



The Loos UL-S steam boiler with its innovative automatic start-up function and the feed water partial deaeration plant at the factory of Mester Altländer Fleischwaren GmbH.