

Faced with the need for an additional high output, high pressure steam boiler - but with limited space available in the factory - the global specialty chemical company Chemetall turned to Clayton Steam Systems for the answer.

Chemetall's Langelshheim plant is one of the largest steam consumers in the Rockwell group and two traditional firetube boilers supplied steam for the process and for heating. However during periods of high steam demand both boilers ran at full output which meant there was no back-up supply.



Jörg Matzke who is Engineering Manager at Chemetall said *"If we had a failure of one of our firetube boilers or needed more steam in the winter we would end up with a bottle-neck situation. The answer for the long term was a new standby boiler for our peak load conditions."*

Because of the space limitations at the plant it turned out to be more difficult to find a solution than was originally anticipated. A firetube boiler of similar steam output to the existing units would be too large and would therefore require expensive alterations to

the infrastructure. Access to the boiler as well as the associated equipment such as the hotwell, de-aerator and water treatment system had also to be considered.

The Clayton Steam Generator model EG-604 was found to be the best technology that fitted all the criteria.

Output of the unit selected is over 9 tonnes per hour of steam and it weighs only 6.9 tonnes with a height of five metres.

Jörg Matzke commented *"The standby boiler from Clayton offered the best constructional, technical, and operational solution. The vertical construction of the Clayton design is a significant advantage and the unit was delivered in two parts that we were able to lower into the boiler room through a roof opening. A traditional firetube boiler with the same output is around 8.5 metres long and 30 tonnes in weight. This would have caused major headaches."*

The new Clayton Steam Generator comes into operation within a few minutes from burner start due to the rapid start capability and allows Chemetall to optimize steam production and flexibility with the advantage of having an instant standby steam supply.



The extension of existing steam installations often create space problems and the Clayton Steam Generator is the perfect solution for size, safety, reliability, fast response and steam quality.

Chemetall is part of Rockwood Holding Inc, a world class specialty chemicals and advanced materials company.

The Chemetall Group emerged from the combination of expertise in chemistry and metallurgy that is reflected in the company name.

Group activities focus on products and processes for the chemical treatment of metal surfaces and plastics and selected fields of fine chemistry.