

Ultra-Low NOx - future-proof combustion plants

Falling below the emission limit values of the Best Available Techniques (BAT)





TEMINOX - maximum availability and efficiency

The TEMINOX for industrial heat and steam generation combines all the advantages of a modern combustion plant. Its low-emission combustion falls below the strictest NO $_{\rm X}$ emission regulations with low CO and residual oxygen



content in the exhaust gas. Every combustion system can be converted to the most modern version with the more advanced burner head with little effort.

Main industries



Duoblock version

Energy and heat supply



Chemical industry



Food industry



Steel and metal production



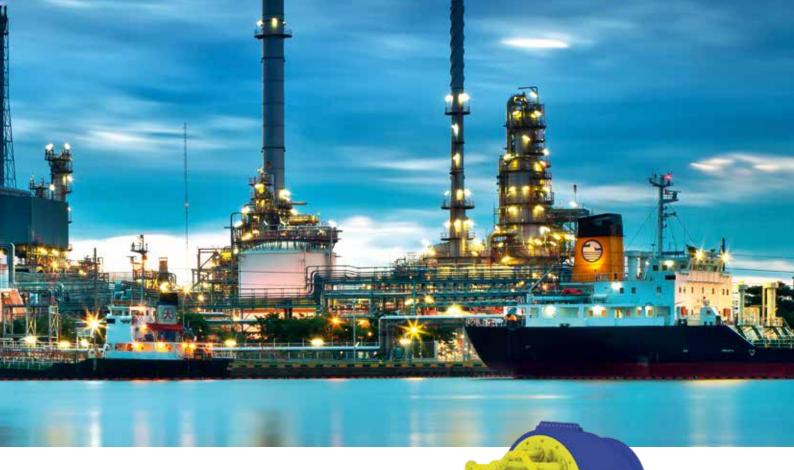
Building materials industry



Wood processing

Product features

- Lowest emissions <30 mg/m³ that meet or even fall below country-specific emission regulations
- Ready for use on shell and water tube boilers, thermal oil heaters and thermoprocessing plants
- Robust and modular design
- Simple installation, commissioning and maintenance reduce downtime, making it particularly suitable for new construction and retrofitting
- Extended max. burner capacity from 3-28 MW (gas and oil operation)
- Large control range up to 1:10 (in gas operation)



ATONOX - modular concept that protects the environment and the budget

For flexible use in large combustion plants for steam and hot water generation, this natural gas burner not only sets standards in terms of environmental protection, but also saves hard cash thanks to minimal operating costs and simple installation, even in difficult mounting situations.

Main industries



Refineries



Energy and heat supply



Chemical industry



Food industry



Steel and metal production



Building materials industry



Wood processing

Product features

- Lowest BAT-compliant NO_X values without secondary measures such as external flue gas recirculation (therefore future-proof retrofitting possible at any time)
- Ready for use on water tube boilers with different combustion chamber geometries
- 30-50% smaller installation diameter of the burner head compared to the competition - ideal for modernization or new construction
- Quick installation, low maintenance and long service life due to no fragile ceramic components and robust design with gas nozzles without small holes
- Max. single burner capacity from 17-80 MW
- Wide control range up to 1:8

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Our current references

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Client / Project	Country	Number of burners	Burner capacity / total capacity	Measured NO _X values
Beijing Airport	China	5	5 x 8 MW / 10 t/h	30mg/m ³
Agristo Wielsbeke	Belgium	1	21 MW/30 t/h	<35 mg/m³
Beijing NO.2 Aviation Institute Project	China	1	Approx. 6.5 MW	<30mg/m³
Food Industry	France	4	4 x 14 MW / 2 x 40 t/h	<35 mg/m³
Tianjin Tong Fali Project	China	1	<30mg at 75 % MCR	<30mg/m³
Lanzhou Biopharmaceutical Base Project	China	1	<30mg at 75 % Last	<30mg/m³
Lanzhou Biopharmaceutical Base Project	China	3	<30mg at 75 % Last	<30mg/m³
Kunert Wellpappe	Germany	1	7 MW/10 t/h	30 mg/m ³

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Client / Project	Country	Number of burners	Burner capacity / total capacity	Measured NO _X values*
Vynova Wilhelmshaven	Germany	4	4 x 24 MW	<30mg/m ³
Chemes Humenné/OHNÚT spalovací technika s.r.o.	Slovakia	1	42.7 MW	<30mg/m ³
Nordic Sugar Ortöfta	Sweden	8	8 x 15 MW	<30mg/m ³
Ganz Danubius Hungaro Steel Kft. Veolia Energia Nyíregyháza	Hungary	4	4 x 12.8 MW	<30mg/m ³
Agfa-Gevaert NV Agfa Mortsel	Belgium	1	28.3 MW	<30mg/m³

^{*} SAACKE burners with external flue gas recirculation achieve emission values of <30 mg. However, even without the FGR application, SAACKE's Ultra-low NOx-burners still achieve excellent values of around 50 mg, whereas for example the TA Luft (Technical Instructions on Air Quality Control) of the German Federal Government currently still specifies 100 mg as the limit.

You can rely on almost 90 years of combustion expertise and over 20,000 installed industrial plants!

For more information

