

Ultra-Low NO_X - Future-proof combustion plants

Undercutting the emission limits of the 13th BImSchV





TEMINOX - maximum availability and efficiency

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



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

Focus 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 downtimes, therefore particularly suitable for new construction and retrofits
- Extended max. burner capacity from 3-28 MW (gas and oil operation)
- Wide control range up to 1:10 (in gas operation)



ATONOX - modular concept protects the environment and the budget

For flexible use on 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 money thanks to its minimal operating costs and simple installation, even in difficult installation situations.

Focus industries



Energy and heat supply



Refineries



Chemical industry



Food industry



Steel and metal production

Product features

- Lowest NO_X values (compliant with BAT and 13th BImSchV), usually 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 a wide variety of furnace geometries
- 30-50 % smaller burner head installation diameter compared to the competition ideal for modernization or new builds
- Fast installation, low maintenance and long lifetime due to no fragile ceramic components and robust design with gas nozzles without small holes
- Max. single burner capacity from 7-100 MW
- Wide control range up to 1:8

Our worldwide references (excerpt)

TEMINOX

Agristo Wielsbeke Belgiu Beijing New Airport China Beijing N0.2 Aviation Institute China Brewery Germa	5		21 MW 5 x 8 MW 6.5 MW	<70 mg/m³** <30 mg/m³
Beijing NO.2 Aviation Institute China	1			
			6.5 MW	
Brewery Germa				<30 mg/m ³
	any 2	:	2 x 10 MW	<50 mg/m ³ **
Energy supplier France	e 4		4 x 14 MW	<55 mg/m³
Kunert Wellpappe Germa	any 1		6 MW	<30 mg/m ³
Lanzhou Biopharmaceutical Base China	6	,	1 x 6.5 MW, 3 x 12 MW, 2 x 18 MW	<30 mg/m ³
Food industry France	e 4		4 x 14 MW	< 50 mg/m ³
Tianjin Tong Fali China	1		14 MW	<30 mg/m ³
TU Dortmund Germa	any 2	:	2 x 7 MW	<50 mg/m ³ **

ATONOX

ATONOX Customer / Project	Country	Number of burners	Burner capacity / total capacity	Measured NO _X values*
Vynova Wilhelmshaven	Germany	1	4 x 25 MW / 100 MW	<60 mg/m³
Nordic Sugar Ortöfta	Sweden	2	4 x 10 MW & 4 x 15 MW / 100 MW	<60 mg/m³
Beijing New Airport	China	5	1 x 63 MW / 315 MW	<30 mg/m³
Covestro Shanghai	China	2	1 x 48 MW / 96 MW	<30 mg/m ³
Beijing Hucheng Heating District	China	3	1 x 32 MW / 96 MW	<60 mg/m ³
Huayuan Heating District	China	6	1 x 63 MW / 378 MW	<30 mg/m ³
Caoquiao Heating District	China	4	2 x 63 MW / 504 MW	<30 mg/m ³

^{*} SAACKE burners with external flue gas recirculation achieve emission values of < 30 mg. However, even without the FGR application, SAACKE's Ultra-low NO_X 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.

Rely on 90 years of combustion expertise with over 20,000 industrial plants installed!

For orders and inquiries



^{**} Without flue gas recirculation.