

TEMINOX THE ULTRA-LOW NO_x BURNER FOR YOUR PROCESS HEAT.

- ✓ Maximum availability and efficiency
- ✓ Monoblock and duoblock versions
- ✓ Lowest emissions



BURNER OVERVIEW.



Burner	ATONOX	ROTONOX	SSB
Burner capacity	7–100 MW	1–45.3 MW	1.5–90 MW
Fuels	Natural gas, liquid gas, hydrogen, light fuel oil, synthetic fuels, special fuels (biogases, bio-oils, etc.)	Natural gas, liquid gas, hydrogen, light fuel oil, heavy fuel oil, synthetic fuels, special fuels (biogases, bio-oils, animal fats, special gases, special oils, other alternative liquid and gaseous fuels)	Natural gas, liquid gas, hydrogen, light fuel oil, heavy fuel oil, synthetic fuels, special fuels (biogases, bio-oils, dust, lean gases, etc.)
Areas of application	New construction and modernization of industrial plants: Shell boilers, water-tube boilers, thermal fluid heaters, thermal processing plants	New construction and modernization of industrial plants: Shell boilers, water-tube boilers, thermal fluid heaters, thermal processing plants, hot gas generators, and combustion chambers	New construction and modernization of industrial plants: Shell boilers, water-tube boilers, thermal fluid heaters, thermal processing plants, hot gas generators and combustion chambers, other thermal processing and drying plants, ignition and support firing

Diagram

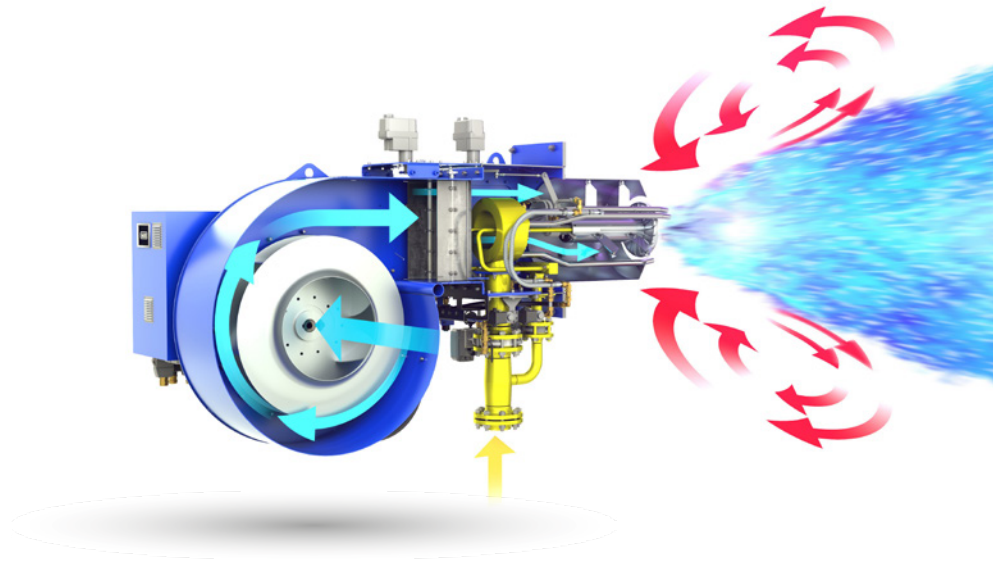


TEMINOX

3–28 MW

Natural gas, liquid gas,
hydrogen, light fuel oil,
synthetic fuels, special fuels
(biogases, bio-oils, etc.)

New construction and
modernization of
industrial plants: Shell
boilers, water-tube boilers,
thermal fluid heaters,
thermal processing plants



BENEFITS OF THE BURNER SYSTEM.

Thanks to its efficient and low-pollutant combustion, the **SAACKE TEMINOX** satisfies the strictest emission regulations in both gas and oil firing operation and maintains the residual oxygen values in the exhaust gas low. The burner is available in both a monoblock version with an integrated fan and a duoblock version with a separate fan.

- ✓ Lowest emissions which reliably comply with or even fall below the country-specific emission regulations, e.g., the German Ordinances on the Implementation of the Federal Immission Control Act (BImSchV).
- ✓ High efficiency thanks to low residual oxygen in the exhaust gas even with the highest emission requirements.
- ✓ Highly efficient, noise-reduced fan (monoblock) with low current consumption.

- ✓ Compliance with CE directives, type-tested.
- ✓ Robust and modular design.
- ✓ Simple installation, commissioning, and maintenance.
- ✓ Suitable for a wide range of heat generators.
- ✓ Available as a natural gas, light oil, or dual fuel burner with the option of simultaneous operation with two fuels and combustion of special fuels.
- ✓ Version for air preheating (optional).
- ✓ Integrated combustion management system (optional).
- ✓ Further modular system expansions possible.

Emission values

	Natural gas	Light fuel oil
NO_x	≥ 25 mg/Nm ³	≥ 120 mg/Nm ³
CO	< 10 mg/Nm ³	< 40 mg/Nm ³

Capacity range of monoblock/duoblock burner in MW

Burner size	Gas		LFO	
	Q _{min.}	Q _{max.}	Q _{min.}	Q _{max.}
50*	0.5	5	1.3	5
70	0.7	7	1.7	7
100	1.0	10	2.4	10
140	1.4	14	3.3	14
200	1.8	20	4.7	20
280	2.5	28	6.8	25

*Only available as monoblock version



AVAILABLE VERSIONS.

The **monoblock version** features an integrated high-performance fan optimally calibrated to the burner. In combination with the energy-efficient motors, it achieves excellent efficiency. High flue gas-side draft losses can be overcome with low current consumption. The compact construction form requires only minimal installation effort.



The **duoblock version** is predestined for further customizations: the burner with a separate fan offers adaptation to furnaces with particularly high furnace pressure and operation with preheated air. In addition, the use of a double gas ring (optional) enables combustion of two different gases.



WHAT CHALLENGE DO YOU FACE?

A perfect fit for your industry

-  Energy and heat supply
-  Chemical industry
-  Refineries
-  Food industry
-  Waste recycling
-  Steel and metal processing
-  Building materials industry
-  Wood processing
-  Consumer goods



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