

Advantages

- Highest quality standard by latest state of production engineering, application of ISO 9001 quality management system
- European type approval (EN 267 / 676) , CE certification, international type acceptance
- Future-proof technology with ultra-low NOx values
- Compliance with lowest NOx limit emission values
- Complete one-source solutions which minimise project work
- Optimal adaptation to all plant requirements due to modular construction of mixing system, fan and sound absorption
- Time-saving installation and commissioning

Pressure atomisers are used in any industrial application with high demands to emission amounts during the combustion of natural gas, light fuel oil (LFO), and special fuels like biogas.

SAACKE TEMINOX pressure atomisers are low NOx burners, available in monoblock construction (i.e. the fan is integrated into the burner) or even in duoblock design (i.e. burner and fan are installed at different locations). The TEMINOX product line contains light fuel oil burners, gas burners and dual-fuel burners for light fuel oil and gas.

Since the TEMINOX GLS line has been introduced into the market in 1998, it is used worldwide in all industrial and heat economy sectors and has achieved sustained success. Application fields are three pass boilers, water tube boilers, reverse flame boilers, and thermal oil boilers. By using SAACKE TEMINOX pressure atomising burners, the NOx values can be safely kept below the current applicable valid limits. This has been proved worldwide by measurements taken at more than 1,000 firing plants. Low NOx limits can easily be met even if preheated air is used.

A flexible system consisting of a mixture unit and the housing allows using the burner even at high furnace pressures. The extremely low NOx emission values are reached by dividing the combustible flow into primary and secondary gas flow.

Capacity range

0.54 - 25 MW

Fuels

**Light fuel oil TEMINOX LS
Gas TEMINOX GS**

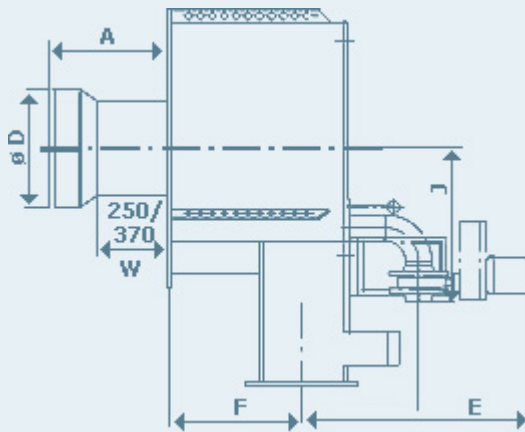
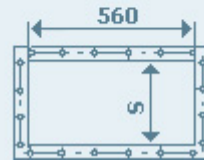
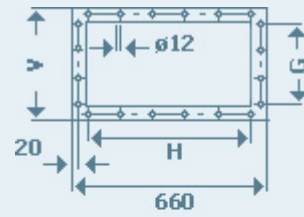
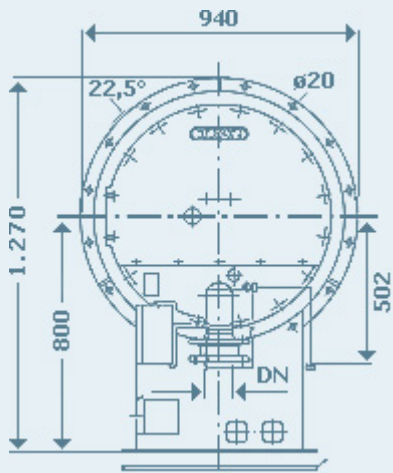
Application fields in all industrial and heat sectors

**Light fuel oil / gas TEMINOX GLS
Three pass boilers, water tube boilers, reverse flame boilers, thermal oil boilers**

Since the monoblock version of the SAACKE TEMINOX is available with various options, it constitutes an optimal solution for individual plant requirements in regard to capacity and furnace pressure. Depending upon required capacity and furnace pressure, the burner head and the fan may be combined in up to three variants. This allows using the SAACKETEMINOX monoblock burner even for plants with an extremely high furnace pressure possibly caused by economisers or special boiler types. The fan housing which may be swung out to the left and to the right (mirror-design) is optimally suited for being used with double flame tube boilers. Detailed engineering work on fan arrangement and air ducts is not required any longer.

We recommend using the duoblock construction of the SAACKE TEMINOX in case your deal with various special non-standard fuels and fuel combinations (e.g. mixing unit for biogas). The SAACKE TEMINOX duoblock burner can be used even with high plant draft losses and with preheated air. Since the burner housing is space saving, the burner is also appropriate for plants located at confined areas. If the plant is equipped with several burners, one central fan may be used.





TEMINOX	Maße / Dimension (mm)									
Brennertyp Burner type	A	D außen/ outer	E	F	G	H	J	S	V	DN Gas
60	375/495	310	710	505	2x90	5x110	485	180	280	65
80	387/507	350	738	485	2x100	5x110	520	220	320	80
100	402/522	400	768	455	3x90	5x110	520	280	380	80
130	408/528	440	848	465	4x85	5x110	560	360	460	100
160	432/552	500	848	425	4x110	5x110	585	440	540	100
190	440/560	550	898	375	5x100	5x110	585	540	640	100
220*										
250*										

* technische Daten auf Anfrage
 * technical details on request



Duoblock Druckzerstäuber TEMINOX LS, GS, GLS 60 - 220

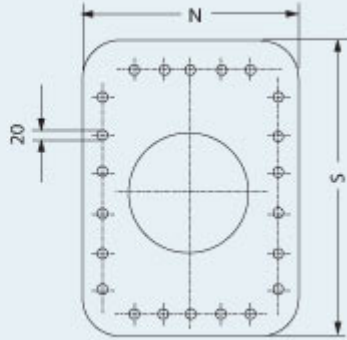
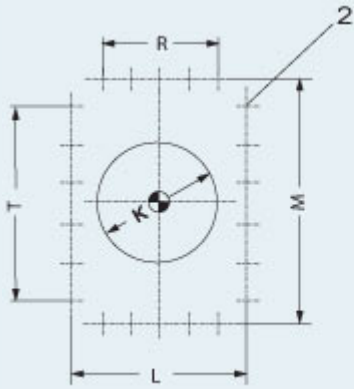
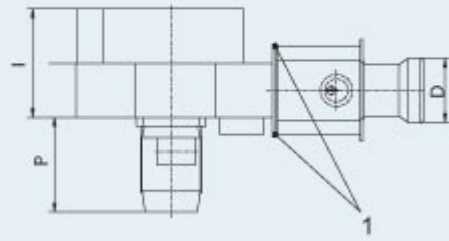
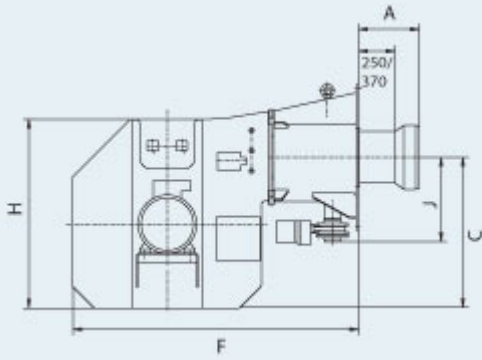
Brennstoff Fuel	Leistung Capacity ca. (MW)	0.54 ▼ 5.4	1.35 ▼ 5.4	0.8 ▼ 7.5	1.85 ▼ 7.5	1 ▼ 9.5	2.5 ▼ 9.5	1.2 ▼ 12
	Brennertyp Burner type	60	60	80	80	100	100	130
Leichtöl Light fuel oil	LS		■		■		■	
Gas	GS	■		■		■		■
Leichtöl/Gas Light fuel oil/gas	GLS	■	■	■	■	■	■	■

Brennstoff Fuel	Leistung Capacity ca. (MW)	3.2 ▼ 12	1.5 ▼ 15.2*	4.0 ▼ 15.2*	2 ▼ 18.5	4.7 ▼ 18.5*	2.4 ▼ 22*	6.1 ▼ 22*	2.6 ▼ 25*	7.3 ▼ 25*
	Brennertyp Burner type	130	160	160	190	190	220	220	250	250
Leichtöl Light fuel oil	LS	■		■		■		■		■
Gas	GS		■		■		■		■	
Leichtöl/Gas Light fuel oil/gas	GLS	■	■	■	■	■	■	■	■	■

* Leichtöl > 14 MW auf Anfrage möglich

* Light fuel oil > 14 MW on request





TEMINOX	Maße / Dimensions (mm)							
Brennertyp Burner type	A I / II	C	D außen/ outer	F	H	I	J	P
5515	376/495	931	310	1790	1150	686	460	490
5518	376/495	931	310	1790	1150	686	460	490
7518	392/512	931	350	1790	1150	686	505	490
7522	392/512	1082	350	1970	1300	746	505	620
9522	412/532	1082	400	1970	1300	746	505	620
9530	412/532	1082	400	1970	1300	746	505	680
9537	412/532	1082	400	1970	1300	746	505	680
12530	418/538	1082	440	1970	1300	746	580	680
12537	418/538	1082	440	1970	1300	746	580	680
12545	418/538	1127	440	2036	1415	866	580	695
15537	442/562	1127	500	2036	1415	866	580	680
15545	442/562	1127	500	2036	1415	866	580	695
18545	450/570	1127	550	2036	1415	866	580	695

TEMINOX	Maße / Dimensions (mm)						
Brennertyp Burner type	K	L	M	N	R	S	T
5515	330 + 5	520	700	560	4 x 105	740	5 x 120
5518	330 + 5	520	700	560	4 x 105	740	5 x 120
7518	370 + 5	570	790	620	4 x 110	840	5 x 140
7522	370 + 5	570	790	620	4 x 110	840	5 x 140
9522	420 + 5	570	790	620	4 x 110	840	5 x 140
9530	420 + 5	570	790	620	4 x 110	840	5 x 140
9537	420 + 5	570	790	620	4 x 110	840	5 x 140
12530	460 + 5	650	950	700	4 x 120	1000	5 x 150
12537	460 + 5	650	950	700	4 x 120	1000	5 x 150
12545	460 + 5	650	950	700	4 x 120	1000	5 x 150
15537	520 + 5	650	950	700	4 x 120	1000	5 x 150
15545	520 + 5	650	950	700	4 x 120	1000	5 x 150
18545	570 + 5	650	950	700	4 x 120	1000	5 x 150

Monoblock Druckzerstäuber TEMINOX LS, GS, GLS 55 - 185

Brennstoff Fuel	Leistung Capacity ca. (MW)	0.54 ▼ 5.4	1.35 ▼ 5.4	0.8 ▼ 7.5	1.85 ▼ 7.5	1 ▼ 9.5	2.5 ▼ 9.5	1.2 ▼ 12	3.2 ▼ 12	1.5 ▼ 15.2*	4.0 ▼ 15.2*	2 ▼ 18.5*	4.7 ▼ 18.5*
	Brennertyp Burner type	55	55	75	75	95	95	125	125	155	155	185	185
Leichtöl Light fuel oil	LS		■		■		■		■		■		■
Gas	GS	■		■		■		■		■		■	
Leichtöl/Gas Light fuel oil/gas	GLS	■	■	■	■	■	■	■	■	■	■	■	■

* Leichtöl > 14 MW auf Anfrage möglich

* Light fuel oil > 14 MW on request

1 = Swing-out axes, 2 = Screws M 16x40

Equipment

- Modularly constructed Low NOx mixing system
- Sound insulation for high demands on acoustic insulation
- Return pressure atomiser with hydraulic needle valve for light fuel oil (LFO)
- Gas damper and oil control valve with linear behaviour
- Pre-configured and tested gas valve train
- Monitoring devices for e.g. 72 hour operation without supervision according to TRD
- Gas-electric igniter, during oil operation direct electrical ignition without ignition gas
- Firing Management System with electronic compound, optionally mounted to the burner and already pre-wired or installed to the switch cabinet
- CE type and DIN-/DVGW certification: Product Identification number is CE-0085BL0313
- SAACKE gas trains and burner control system are also tested and approved as complete system in combination with the TEMINOX
- Control range is 1:7 (gas) and 1:3 (oil), always depending on burner size and equipment

Peculiarities monoblock

- Monoblock housing with high capacity fan and sound insulation, to be swung out to the left or to the right. If the fan motor is frequency controlled, it is additionally equipped with a thermistor protection
- Sound insulation available for reductions between 10 and 35 dB(A)

Peculiarities duoblock

- High capacity fan
- Air inlet angle may be selected in increments of 22.5 degrees

