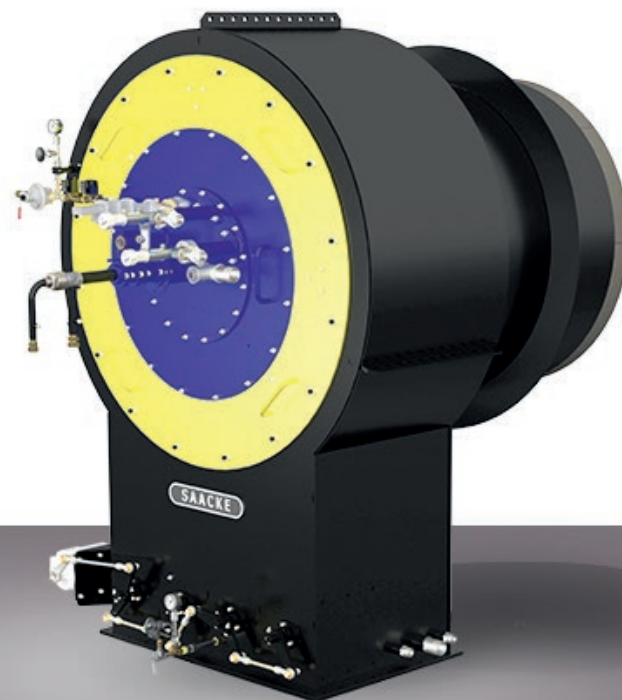


Technical data sheet

Steam-assisted pressure jet – DDZG-LN

SAACKE**Building materials industry****Steel and metal production****Woodprocessing****Waste incineration****Energy and heat supply****Chemical industry****Refineries****Food industry**

Steam-assisted pressure jet DDZG-LN

The DDZG-LN consistently achieves levels below the stringent emission limits in place, without secondary measures and with simultaneous combined combustion if required. With its flexible burner concept, it allows combustion of gaseous and liquid standard and special fuels in different combinations. Thanks to the CFD optimized melt flow way a low air side pressure loss and thus a 50% lower electrical energy consumption is achieved. In combination with the high control range the DDZG-LN is therefore particularly energy-efficient.

The modular burner concept allows a short planning phase, a customized engineering and a high plant availability.

Key technical data: DDZG-LN

Applications	Water-tube boilers (up to 500 t/h), combustion chambers, hot gas generators
Burner capacity (max.)	7-100 MW
Combustion air temperature	0-300 °C
Pressure loss air side	<25 mbar
Control range	1:7

Emission values*

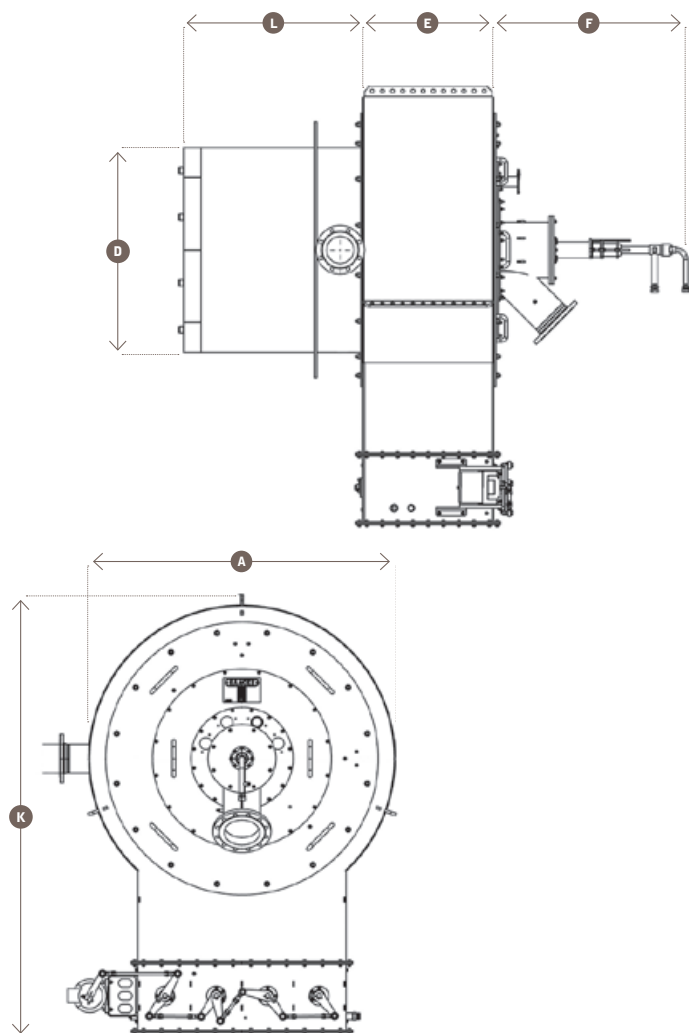
		Natural gas	Light oil**	Heavy Fuel oil***
NO_x [mg/m³]	without secondary measures	50 -90	120 -140	<450
NO_x [mg/m³]	with secondary measures	40 -70 (with flue gas recirculation)	90 -120 (with flue gas recirculation)	<300 (with SNCR)

* Based on 3 % O₂, under ideal conditions the lower values apply

** In relation to 140mg/kg fuel nitrogen

*** Depending on fuel nitrogen content

Dimensions DDZG-LN



Product information

- Can be delivered for standard fuels (special fuels on request)
- Short planning phase, cycle times and customized engineering thanks to its modular concept
- Flexible burner concept: Simultaneous combustion (oil and gas also simultaneously or as combination-type burner)
- Ideal for water-tube boilers, thermal fluid boilers and process plants of all varying sizes
- Air heating possible up to 300 °C
- Extremely low emissions

Burner dimensions in mm

Installation size	A	D	E	F*	K	L _{min} **
150.01	910	750	360	965	1,588	645
.02	910	750	360	965	1,588	645
.03	910	750	360	965	1,588	645
200.01	1,100	850	460	1,050	1,875	780
.02	1,100	850	460	1,050	1,875	780
.03	1,100	850	460	1,050	1,875	780
300.01	1,300	1,000	610	1,050	2,180	1,025
.02	1,300	1,000	610	1,050	2,180	1,025
.03	1,300	1,000	610	1,050	2,180	1,025
450.01	1,600	1,200	762	1,230	2,680	1,190
.02	1,600	1,200	762	1,230	2,680	1,190
.03	1,600	1,200	762	1,230	2,680	1,190
650.01	2,000	1,400	916	1,230	3,130	1,315
.02	2,000	1,400	916	1,230	3,130	1,315
.03	2,000	1,400	916	1,230	3,130	1,315

Weight in kg

Installation size	DDG-LN	DDGG-LN	DDZG-LN	DDZGG-LN
150	640	740	670	770
200	880	980	910	1,010
300	1,220	1,345	1,240	1,365
450	2,220	2,345	2,300	2,425
650	3,320	3,360	3,300	3,450

Maximum burner capacity in MW ***

Installation size	25	50	100	150	200	250	300
150.01	9.9	9.5	8.8	8.3	7.8	7.4	7.1
.02	11.3	10.8	10.1	9.5	9.0	8.5	8.1
.03	12.8	12.3	11.5	10.8	10.2	9.7	9.3
200.01	14.6	14.1	13.1	12.3	11.6	11.1	10.6
.02	16.7	16	14.9	14.0	13.2	12.6	12.0
.03	19.0	18.3	17.0	16.0	15.1	14.4	13.7
300.01	21.6	20.8	19.3	18.2	17.2	16.3	15.6
.02	24.7	23.7	22.1	20.7	19.6	18.6	17.8
.03	28.1	27.0	25.2	23.6	22.3	21.2	20.3
450.01	32.1	30.8	28.7	26.9	25.5	24.2	23.1
.02	36.6	35.1	32.7	30.7	29.0	27.6	26.4
.03	41.7	40.1	37.3	35.0	33.1	31.5	30.1
650.01	47.6	45.7	42.5	39.9	37.8	35.9	34.3
.02	54.3	52.1	48.5	45.6	43.1	41.0	39.1
.03	61.8	59.4	55.3	51.9	49.1	46.7	44.6

* Not relevant for burner type DDG-LN and DDGG-LN ** The dimension L is system-specific, but must be at least L_{min} value. *** Greater power and burner dimensions on request

