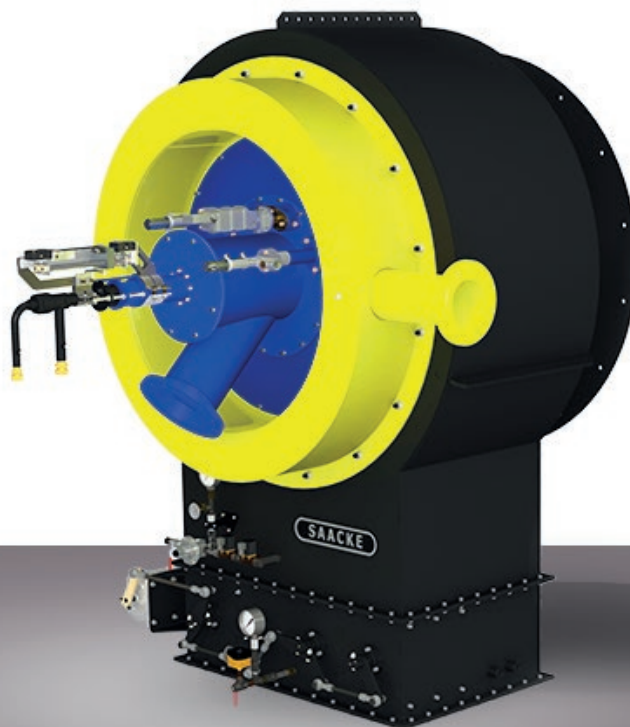


Technical data sheet

Steam-assisted pressure jet – DDZG-EN

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

Steam-assisted pressure jet DDZG-EN

The DDZG-EN consistently achieves levels below the stringent emission limits in place, without secondary measures and with simultaneous combined combustion if required. Thanks to its modular design and compact dimensions it is the ideal solution for boiler modernization, even in complex systems. The burner is also available with a fully-fitted, easy to operate control system. Thanks to the CFD optimized melt flow way a low air side pressure loss and thus a 50% lower electrical energy consumption is achieved.

Key technical data: DDZG-EN

Applications	Water-tube boilers (up to 500 t/h), thermal fluid boilers, garbage incineration plants, combustion chambers, hot gas generators
Burner capacity (max.)	7-55 MW
Combustion air temperature	0-300 °C
Pressure loss air side	<25 mbar
Control range	1:5

Emission values*

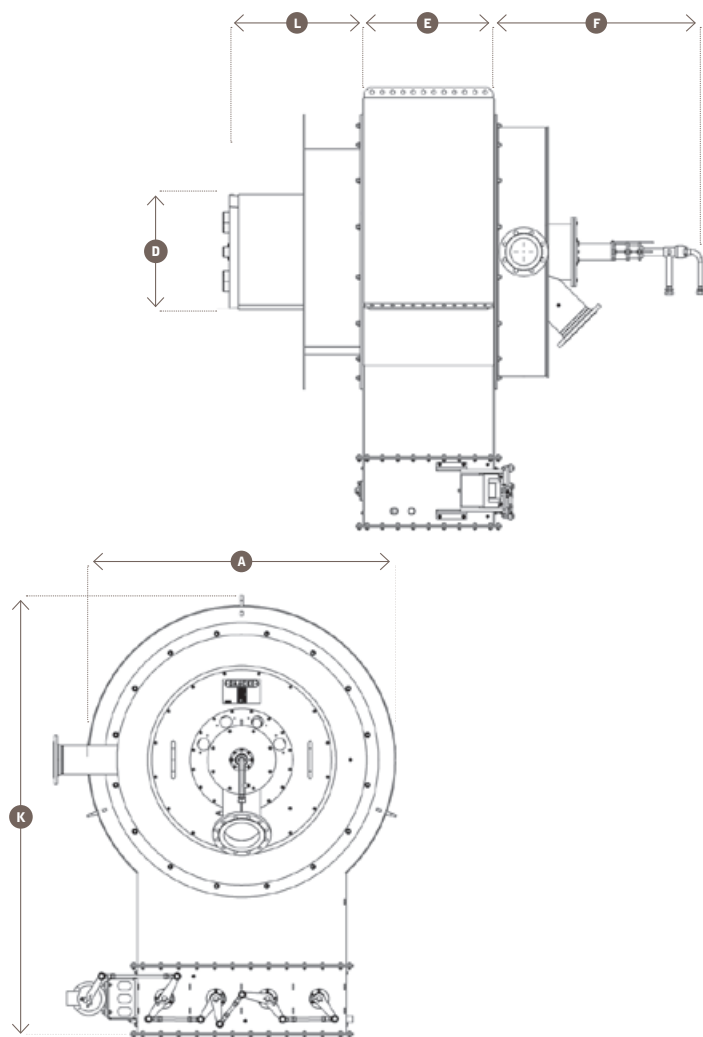
		Natural gas	Light oil**	Heavy Fuel oil***
NO_x [mg/m³]	without secondary measures	60-100	120 -140	<450
NO_x [mg/m³]	without secondary measures	50 -80 (with flue gas recirculation)	90 -120 (with flue gas recirculation)	<300 (with SNCR)

* 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-EN



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	391	360	965	1,588	485
.02	910	406	360	965	1,588	485
.03	910	426	360	965	1,588	485
200.01	1,100	446	460	1,050	1,875	585
.02	1,100	466	460	1,050	1,875	585
.03	1,100	486	460	1,050	1,875	585
300.01	1,300	506	610	1,050	2,180	765
.02	1,300	531	610	1,050	2,180	765
.03	1,300	556	610	1,050	2,180	765
450.01	1,600	596	762	1,230	2,680	910
.02	1,600	631	762	1,230	2,680	910
.03	1,600	661	762	1,230	2,680	910
650.01	2,000	691	916	1,230	3,130	955
.02	2,000	726	916	1,230	3,130	955

Weight in kg

Installation size	DDG-EN	DDZ-EN	DDZG-EN
150	530	475	580
200	730	640	990
300	1,000	990	1,150
450	1,860	1,610	1,910
650	2,700	2,500	2,900

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

* 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

