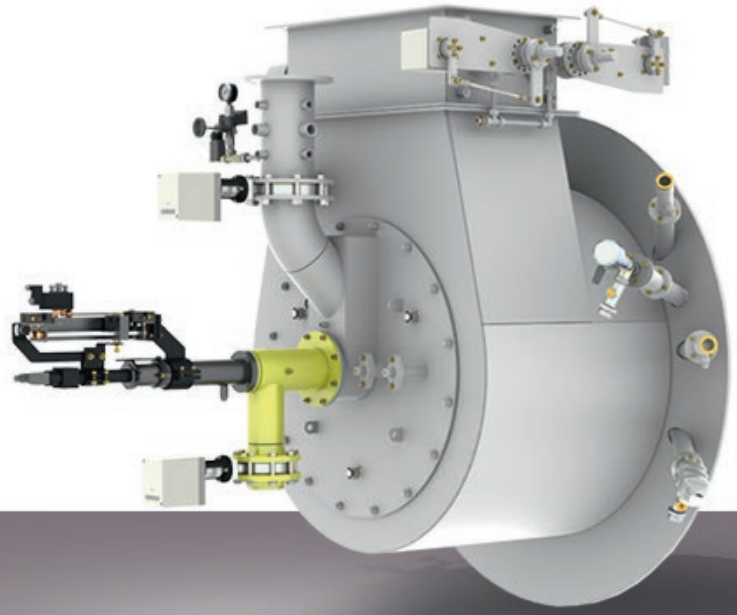
Technical datasheet
Gas turbine exhaust burner DD(Z)G-GTM

SAACKE

- Power and heat supply
- Chemical industry
- Refineries
- Food processing industry
- Building materials industry
- Steel and metal production
- Waste incineration
- Wood processing
- Municipalities and communities



Gas turbine exhaust burner DD(Z)G-GTM

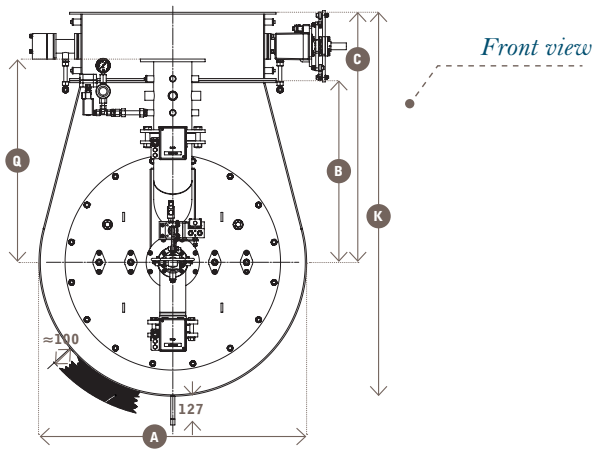
SAACKE Micro-CHP-System: energy-efficient electrical power and heat generation

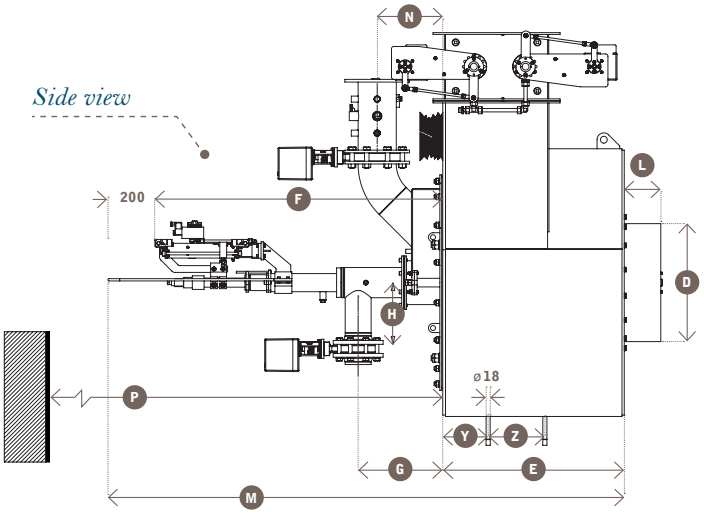
Until now, small to medium-scale combined heat and power (CHP) generation was usually realized in cogeneration plants, which are unfortunately very maintenance-intensive. As an alternative, SAACKE is offering an extremely low-maintenance special burner from the DD(Z)G-GTM line for these types of CHP projects. A gas turbine generates 50 to 1,000 kW electrical power. The high-energy turbine gas, which is fired in the downstream heat generator, is utilized up to 100 percent as combustion air in the DD(Z)G-GTM SAACKE gas turbine exhaust burner. Depending on design and configuration of the heat generator, this type of CHP system generates heat, steam or hot water – and produces valuable electrical energy. This combination of turbine and burner always guarantees continuously low emission levels which are reliably below requirements across the entire range of EU regulations.

Technical data: DD(Z)G-GTM

Areas of application	Shell boilers, water-tube boilers, thermal oil heaters, hot gas generators
Burner capacity (max.)	2 - 20 MW
Combustion air temperature	5 - 300 °C

DD(Z)G-GTM dimensions





Burner size (mm)

Size	A	B	C	D	E	F	G	
						DDZG	DDG/DDZG	DDGG
2	630	450	900	240	475	1.185	320	555
5	780	560	860	335	550	1.220	350	585
8	980	700	1.000	395	650	1.270	375	665
13	1.180	800	1.100	520	800	1.270	375	665
20	1.450	1.000	1.300	680	850	1.270	375	665

	H		K	L	M		N
	DDG/DDZG	DDGG			DDG	DDZG	DDGG	
2	150	150	1.215	161	1.195	1.860	1.195	177
5	150	150	1.250	161	1.300	1.970	1.300	246
8	275	200	1.490	161	1.440	2.120	1.440	289
13	275	200	1.690	161	1.590	2.270	1.590	289
20	275	200	2.025	161	1.640	2.320	1.640	289

	P			Q	Y	Z
	DDG	DDZG	DDGG			
2	1.150	1.860	1.410	860	50	80
5	1.275	2.000	1.550	950	80	165
8	1.425	2.200	1.740	896	100	230
13	1.575	2.350	1.890	896	130	250
20	1.625	2.400	1.940	896	150	300

Burner weight (kg)

Size	DDG-GTM	DDGG-GTM	DDZG-GTM
2	450	470	500
5	510	530	560
8	760	790	810
13	1.000	1.030	1.050
20	1.420	1.450	1.470

Maximum burner capacity in MW

Size	Maximum power	Maximum control range	
		Oil operation	Gas operation
2	2	1:2 / 1,0 MW	1:4 / 0,5 MW
5	5	1:3 / 1,7 MW	1:5 / 1,0 MW
8	8	1:3 / 2,7 MW	1:6 / 1,3 MW
13	13	1:3 / 4,3 MW	1:6 / 2,2 MW
20	20	1:3 / 6,7 MW	1:6 / 3,3 MW

Emission levels*

Natural gas	Light oil**
80 - 100 NO_x [mg/m³] (with flue gas recirculation)	130 - 180 NO_x [mg/m³] (with flue gas recirculation)

*For 3% standard O_2 content in heat generator exhaust **Applied to 140 mg/kg combustible nitrogen

Product notes

- Easy retrofitting of existing heat generators as well as short downtime for installation and commissioning
- Long maintenance intervals for turbine and burner
- High system availability
- Very low emission levels and quick ROI thanks to outstanding efficiency
- Designed for all standard and special liquid and gas fuels such as biogas
- Turbine and burner can be operated independently
- Increased production flexibility and independence of energy cost fluctuations

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