

kW 800 - 11000

SERIES TBG

CONFORM TO: GAS DIRECTIVE 2009/142/CE | E.M.C. DIRECTIVE 2014/30/UE | L.V. DIRECTIVE 2014/35/UE | MACHINERY DIRECTIVE 2006/42/CE | REFERENCE STANDARD EN676.

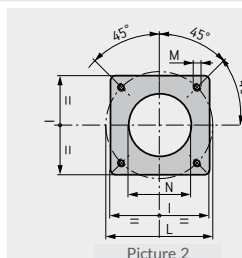
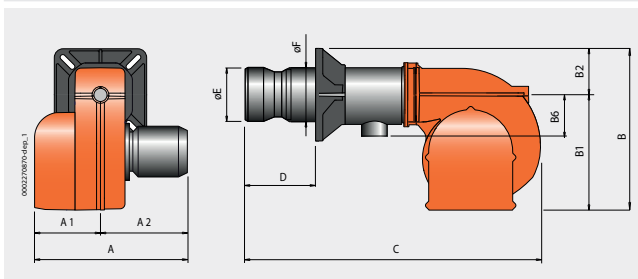


GAS



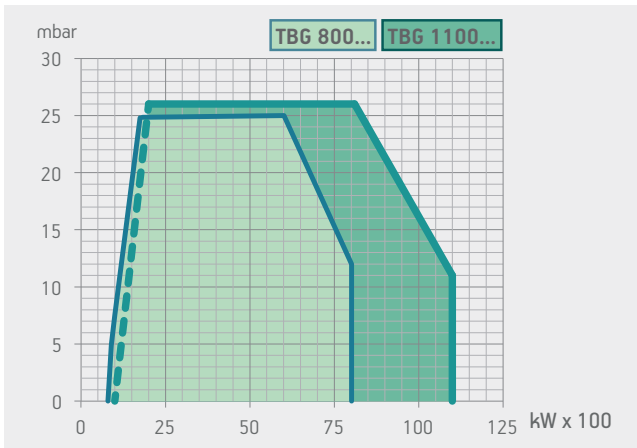
Gas burner compliant with European standard EN676. Operation:

	TBG 1100 MC	TBG 1100 ME	TBG 1100 ME V	TBG 1100 ME V O2	TBG 1100 ME V CO
	mechanical two-stage progressive	electronic two-stage progressive	modulating electronic	modulating electronic	modulating electronic
Continuous modulation operation by installing P.I.D. controller in the control panel (to be ordered separately with modulation probe).	•	•			
Modulation ratio:	1:11	1:11	1:11	1:11	1:11
Low NOx and CO emissions gas burner according to European standard EN676:	class 2	class 2	class 2	class 2	class 2
Maintenance facilitated by the possibility of removing the mixing unit without having to remove the burner from the boiler.	•	•	•	•	•
Fixed boiler coupling flange.	•	•	•	•	•
Easy maintenance thanks to the two-sides hinge which allows the removal of the combustion head without having to remove the burner from the boiler.	•	•	•	•	•
Combustion air intake with butterfly valve. Air flow adjustment:	mechanical cam	electric servomotor	electric servomotor	electric servomotor	electric servomotor
Fully closing air damper on shutdown to avoid loss of heat through the chimney.	•	•	•	•	•
Device made of sound-absorbing material to reduce fan noise.	•	•	•	•	•
Adjustment of fan revolutions according to working stage by means of a frequency converter in order to reduce noise and electric consumption.			•	•	•
Residual oxygen (O ₂) monitoring in the fumes in order to maintain an optimal air/fuel ratio and ensure increased performance.				•	
Residual oxygen (O ₂) and carbon monoxide (CO) and monitoring of oxidizing components (H ₂) in fumes to ensure increased performance and less atmospheric pollution.					•
CE version gas train is complete with butterfly valve, operation and safety valve with electromagnetic drive, valve tightness control, minimum and maximum pressure switch, pressure regulator and gas filter.	•	•	•	•	•
Fail proof connectors for burner/gas train connection.	•	•	•	•	•
Gas train outlet:	down	up/down	up/down	up/down	up/down
Flame detection by ionisation electrode with connector for microamperometer.	•	•	•	•	•
Control panel with display diagram for working mode with indication lights.	•				
Control panel equipped either with display showing the working process and with the keyboard for the burner adjustment.		•	•	•	•
Electric protection rating:	IP54	IP54	IP54	IP54	IP54



Flange dimensions and boiler drilling template.

Model	A mm	A1 mm	A2 mm	B mm	B1 mm	B2 mm	B6 mm	C mm	D mm	E mm	F mm	I mm	L mm	M mm	N mm	Pic.
TBG 1100 MC	1230	570	660	1030	740	290	310	2030	720	451	418	520	594	M20	460	2
TBG 1100 ME	1230	570	660	1030	740	290	310	2030	720	451	418	520	594	M20	460	2
TBG 1100 ME V	1230	570	660	1030	740	290	310	2030	720	451	418	520	594	M20	460	2
TBG 1100 ME V O2	1230	570	660	1030	740	290	310	2030	720	451	418	520	594	M20	460	2
TBG 1100 ME V CO	1230	570	660	1030	740	290	310	2030	720	451	418	520	594	M20	460	2



Model	Size of packaging			Weight kg
	L	P	H	
TBG 1100 MC	1950	1510	1210	490
TBG 1100 ME	1950	1510	1210	490
TBG 1100 ME V	1950	1510	1210	500
TBG 1100 ME V O2	1950	1510	1210	512
TBG 1100 ME V CO	1950	1510	1210	524

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	O ₂	CO	Emissions class	Thermal output kW	Model	Part no.	Electrical supply kW	Motor	Note
Frequency 50 Hz									
•	•	•	class 2	1000 ÷ 11000	TBG 1100 MC	67450020	3N AC 50Hz 400V	22	4)
			class 2	1000 ÷ 11000	TBG 1100 ME	67440010	3N AC 50Hz 400V	22	4)
			class 2	1000 ÷ 11000	TBG 1100 ME V	67440015	3N AC 50Hz 400V	22	4) 10)
			class 2	1000 ÷ 11000	TBG 1100 ME V O2	67440016	3N AC 50Hz 400V	22	4) 10)
			class 2	1000 ÷ 11000	TBG 1100 ME V CO	67440017	3N AC 50Hz 400V	22	4) 10)
Frequency 60 Hz									
•	•	•	class 2	1000 ÷ 11000	TBG 1100 MC	67455420	3N AC 60Hz 380V	30	4)
			class 2	1000 ÷ 11000	TBG 1100 ME	67445410	3N AC 60Hz 380V	30	4)
			class 2	1000 ÷ 11000	TBG 1100 ME V	on request	3N AC 60Hz 380V	30	4) 10)
			class 2	1000 ÷ 11000	TBG 1100 ME V O2	on request	3N AC 60Hz 380V	30	4) 10)
			class 2	1000 ÷ 11000	TBG 1100 ME V CO	on request	3N AC 60Hz 380V	30	4) 10)

TO COMPLETE THE BURNER

DESCRIPTION
TBG 1100 ME V: modulating probe for LCM 100 (see page 294)

MODULATING MODE

DESCRIPTION	PART NO.
TBG 1100 MC: modulation kit	98000055
TBG 1100 ME: modulation kit	98000059
TBG 1100 MC/1100 ME: modulating probe (see page 294)	

ACCESSORIES AVAILABLE ON REQUEST

DESCRIPTION	PART NO.
Soundproof burner cover (see page 299)	97980058

GAS BURNERS ACCESSORIES

Boiler coupling kit.

NOTES

- 4 Equipped with air closure device.
 - 10 Inverter supplied separately, not included on the machine.
- Net calorific value at reference conditions of 0°C, 1013mbar:
 Natural gas: Hi = 35,80 MJ/m³ = 8550 kcal/m³,
 For different type of gas and pressure values, please get in contact with our commercial department.