# kW 2700 - 22000

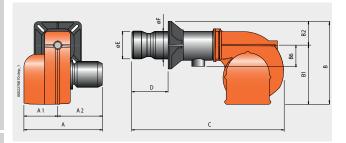
# SERIES **TBG**

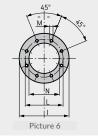
CONFORM TO: GAS DIRECTIVE 2009/142/CE | E.M.C. DIRECTIVE 2014/30/UE | L.V. DIRECTIVE 2014/35/UE | MACHINERY DIRECTIVE 2006/42/CE | REFERENCE STANDARD EN676.





	TBG 2000 MC	TBG 2000 ME	TBG 2000 ME V	TBG 2000 ME V O2	TBG 2000 ME V CO
Gas burner compliant with European standard EN676. Operation:	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:	1:8	1:8	1:8	1:8	1:8
Low NOx and CO emissions gas burner according to European standard EN676:	class 2	class 2	class 2	class 2	class 2
Adjusting the combustion head.	•	•	•	•	•
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

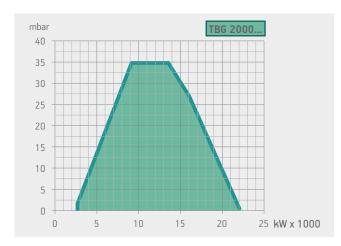




Flange dimensions and boiler drilling template.

Model	A mm	A1 mm	A2 mm	B mm	B1 mm	B2 mm	B6 mm	C mm	D mm	E mm	F mm	l mm	L mm	M mm	N mm	Pic.
TBG 2000 MC	1860	915	945	1270	870	400	440	2340	700	600	630	790	730	M20	640	6
TBG 2000 ME	1860	915	945	1270	870	400	440	2340	700	600	630	790	730	M20	640	6
TBG 2000 ME V	1860	915	945	1270	870	400	440	2340	700	600	630	790	730	M20	640	6
TBG 2000 ME V O2	1860	915	945	1270	870	400	440	2340	700	600	630	790	730	M20	640	6
TBG 2000 ME V CO	1860	915	945	1270	870	400	440	2340	700	600	630	790	730	M20	640	6





	Size	Size of packaging				
Model		P mm	Н	kg		
TBG 2000 MC	2100	2040	1380	1150		
TBG 2000 ME	2100	2040	1380	1150		
TBG 2000 ME V	2100	2040	1380	1176		
TBG 2000 ME V O2	2100	2040	1380	1188		
TBG 2000 ME V CO	2100	2040	1380	1200		

Inverter	O <sub>2</sub>	со	Emissions class	Thermal output kW	Model	Part no.	Electrical supply kW	Motor	Note
					Frequency 50 Hz				
			class 2	2700 ÷ 22000	TBG 2000 MC	67510010	3N AC 50Hz 400V	45	4)
			class 2	2700 ÷ 22000	TBG 2000 ME	67500010	3N AC 50Hz 400V	45	4)
•			class 2	2700 ÷ 22000	TBG 2000 ME V	67500015	3N AC 50Hz 400V	45	4) 10)
•	•		class 2	2700 ÷ 22000	TBG 2000 ME V O2	67500016	3N AC 50Hz 400V	45	4) 10)
•	•	•	class 2	2700 ÷ 22000	TBG 2000 ME V CO	67500017	3N AC 50Hz 400V	45	4) 10)
					Frequency 60 Hz				
			class 2	2700 ÷ 22000	TBG 2000 MC	67515410	3N AC 60Hz 380V	45	4)
			class 2	2700 ÷ 22000	TBG 2000 ME	67505410	3N AC 60Hz 380V	45	4)
•			class 2	2700 ÷ 22000	TBG 2000 ME V	on request	3N AC 60Hz 380V	45	4) 10)
•	•		class 2	2700 ÷ 22000	TBG 2000 ME V O2	on request	3N AC 60Hz 380V	45	4) 10)
•	•	•	class 2	2700 ÷ 22000	TBG 2000 ME V CO	on request	3N AC 60Hz 380V	45	4) 10)

### TO COMPLETE THE BURNER

DESCRIPTION	
TBG 2000 ME V: modulating probe for LCM 100 (see page 294)	

# MODULATING MODE

DESCRIPTION	PART NO.
TBG 2000 MC: modulation kit	98000055
TBG 2000 ME:modulation kit	98000059
TBG 2000 MC/2000 ME: modulating probe (see page 294)	

# **ACCESSORIES AVAILABLE ON REQUEST**

DESCRIPTION	PART NO.
Soundproof burner cover (see page 299)	97980063

#### **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.