

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:

Continuous modulation operation by installing P.I.D. controller in the control panel (to be ordered separately with modulation probe).

Modulation ratio:

Low NOx and CO emissions gas burner according to European standard EN676:

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:

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 (O₂) monitoring in the fumes in order to maintain an optimal air/fuel ratio and ensure increased performance.

Residual oxygen (O₂) and carbon monoxide (CO) and monitoring of oxidizing components (H₂) in fumes to ensure increased performance and less atmospheric pollution.

CE version gas train is complete with butterfly valve, operation and safety valve with electromagnet 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:

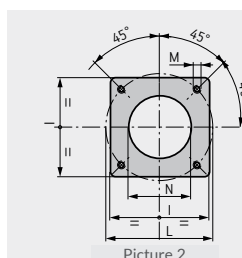
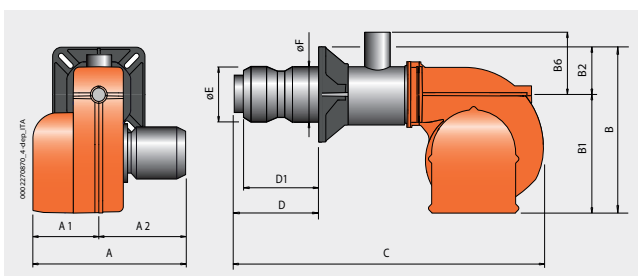
Flame detection by ionisation electrode with connector for microamperometer.

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.

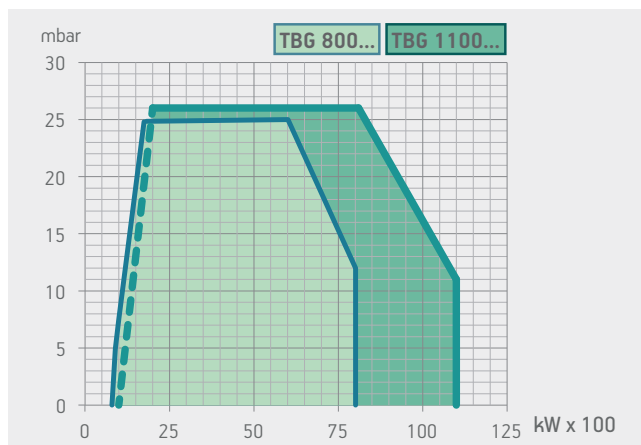
Electric protection rating:

	TBG 800 MC	TBG 800 ME	TBG 800 ME V	TBG 800 ME V O2	TBG 800 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:	1:10	1:10	1:10	1:10	1:10
Low NOx and CO emissions gas burner according to European standard EN676:	class 3	class 3	class 3	class 3	class 3
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 electromagnet 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	D1 mm	E mm	F mm	I mm	L mm	M mm	N mm	Pic.
TBG 800 MC	1230	570	660	1030	740	290	310	2020	720	570	418	432	520	594	M20	440	2
TBG 800 ME	1230	570	660	1030	740	290	310	2020	720	570	418	432	520	594	M20	440	2
TBG 800 ME V	1230	570	660	1030	740	290	310	2020	720	570	418	432	520	594	M20	440	2
TBG 800 ME V O2	1230	570	660	1030	740	290	310	2020	720	570	418	432	520	594	M20	440	2
TBG 800 ME V CO	1230	570	660	1030	740	290	310	2020	720	570	418	432	520	594	M20	440	2



Model	Size of packaging			Weight kg
	L	P	H	
	mm			
TBG 800 MC	1950	1510	1210	460
TBG 800 ME	1950	1510	1210	460
TBG 800 ME V	1950	1510	1210	480
TBG 800 ME V O ₂	1950	1510	1210	492
TBG 800 ME V CO	1950	1510	1210	504

		O ₂	CO	Emissions class	Thermal output kW	Model	Part no.	Electrical supply kW	Motor	Note
Frequency 50 Hz										
				class 3	800 ÷ 8000	TBG 800 MC	67230020	3N AC 50Hz 400V	15,0	4) 19)
				class 3	800 ÷ 8000	TBG 800 ME	67220010	3N AC 50Hz 400V	15,0	4) 19)
				class 3	800 ÷ 8000	TBG 800 ME V	67220015	3N AC 50Hz 400V	15,0	4) 10) 19)
				class 3	800 ÷ 8000	TBG 800 ME V O₂	67220016	3N AC 50Hz 400V	15,0	4) 10) 19)
				class 3	800 ÷ 8000	TBG 800 ME V CO	67220017	3N AC 50Hz 400V	15,0	4) 10) 19)
Frequency 60 Hz										
				class 3	800 ÷ 8000	TBG 800 MC	67235420	3N AC 60Hz 380V	18,5	4) 19)
				class 3	800 ÷ 8000	TBG 800 ME	67225410	3N AC 60Hz 380V	18,5	4) 19)
				class 3	800 ÷ 8000	TBG 800 ME V	on request	3N AC 60Hz 380V	18,5	4) 10) 19)
				class 3	800 ÷ 8000	TBG 800 ME V O₂	on request	3N AC 60Hz 380V	18,5	4) 10) 19)
				class 3	800 ÷ 8000	TBG 800 ME V CO	on request	3N AC 60Hz 380V	18,5	4) 10) 19)

TO COMPLETE THE BURNER

DESCRIPTION

TBG 800 ME V: modulating probe for LCM 100 (see page 294)

MODULATING MODE

DESCRIPTION	PART NO.
TBG 800 MC: modulation kit	98000055
TBG 800 ME: modulation kit	98000059
TBG 800 MC/800 ME: modulating probe (see page 294)	

NOTES

4 Equipped with air closure device.

10 Inverter supplied separately, not included on the machine.

19 For applications on flame-reversing boilers, please get in contact with our commercial department.

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.

ACCESSORIES AVAILABLE ON REQUEST

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

GAS BURNERS ACCESSORIES

Boiler coupling kit.