



GAS BURNERS

TBG 140 LX MC-LX ME



baltur
Energy for People

ООО Промэлектроника
sales@prom-elec.com

АНКАС

sales@prom-elec.com / ООО ПРОМЭЛЕКТРОНИКА

kW 200 - 1450

SERIES TBG



CE 0085

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.



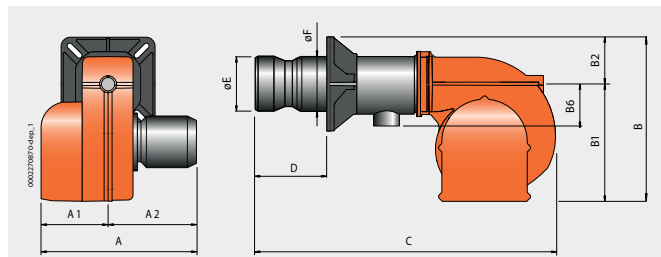
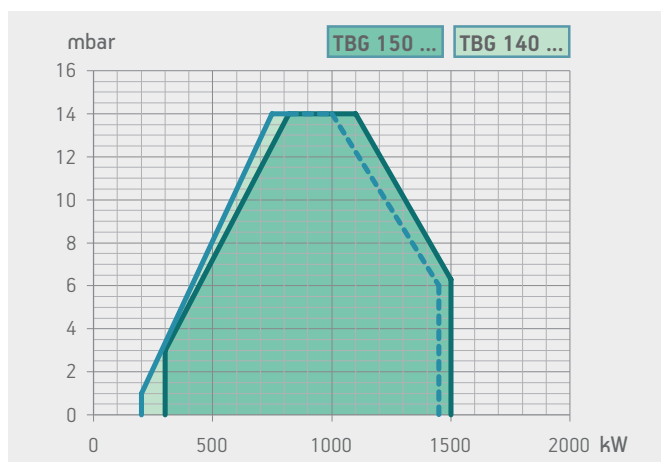
TBG 140 LX MC



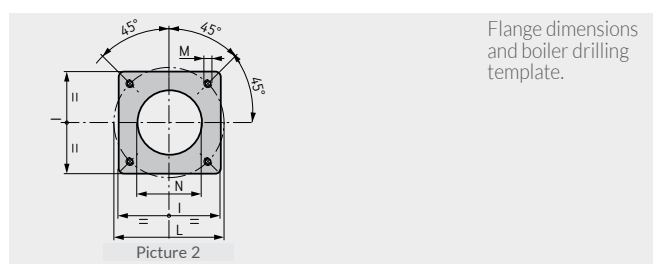
TBG 140 LX ME

Gas burner compliant with European standard EN676. Operation:

	TBG 140 LX MC	TBG 140 LX ME	TBG 140 LX ME V	TBG 140 LX ME VO ₂	TBG 140 LX ME VCO
	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:	1:7	1:7	1:7	1:7	1:7
Low NOx and CO emissions gas burner according to European standard EN676:	class 3	class 3	class 3	class 3	class 3
Adjusting the combustion head.	•	•	•	•	•
Maintenance facilitated by the possibility of removing the mixing unit without having to remove the burner from the boiler.	•	•	•	•	•
High ventilation efficiency, low electrical input, low noise.	•	•	•	•	•
Sliding boiler coupling flange to adapt the blast-pipe to the various types of boilers.	•	•	•	•	•
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.	•	•	•	•	•
Combustion air intake designed to achieve optimum linearity of the air gate opening.	•	•	•	•	•
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 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:	IP44	IP40	IP40	IP40	IP40



Model	Size of packaging			Weight kg
	L	P	H	
	mm			
TBG 140 LX MC	1070	800	700	91
TBG 140 LX ME	1070	800	700	91
TBG 140 LX ME V	1530	760	700	107
TBG 140 LX ME V O2	1530	760	700	119
TBG 140 LX ME V CO	1530	760	700	131



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 140 LX MC	690	320	370	550	380	170	200	1280	200 ÷ 450	240	219	320	280 ÷ 370	M12	250	2
TBG 140 LX ME	610	240	370	540	380	160	200	1315	200 ÷ 450	240	219	320	280 ÷ 370	M12	250	2
TBG 140 LX ME V	670	300	370	540	380	160	200	1315	200 ÷ 450	240	219	320	280 ÷ 370	M12	250	2
TBG 140 LX ME V O2	670	300	370	540	380	160	200	1315	200 ÷ 450	240	219	320	280 ÷ 370	M12	250	2
TBG 140 LX ME V CO	670	300	370	540	380	160	200	1315	200 ÷ 450	240	219	320	280 ÷ 370	M12	250	2

	Inverter	O ₂	CO	Emissions class	Thermal output kW	Model	Part no.	Electrical supply	Motor kW	Note
Frequency 50 Hz										
				class 3	200 ÷ 1450	TBG 140 LX MC	17900010	3N AC 50Hz 400V	2,2	3) 4)
				class 3	200 ÷ 1450	TBG 140 LX ME	17670020	3N AC 50Hz 400V	2,2	3) 4)
				class 3	200 ÷ 1450	TBG 140 LX ME V	17670025	3N AC 50Hz 400V	2,2	3) 4)
				class 3	200 ÷ 1450	TBG 140 LX ME V O2	17670026	3N AC 50Hz 400V	2,2	3) 4)
				class 3	200 ÷ 1450	TBG 140 LX ME V CO	17670027	3N AC 50Hz 400V	2,2	3) 4)
Frequency 60 Hz										
				class 3	200 ÷ 1450	TBG 140 LX MC	17905410	3N AC 60Hz 380V	2,6	3) 4)
				class 3	200 ÷ 1450	TBG 140 LX ME	17675420	3N AC 60Hz 380V	2,6	3) 4)
				class 3	200 ÷ 1450	TBG 140 LX ME V	on request	3N AC 60Hz 380V	2,6	3) 4)
				class 3	200 ÷ 1450	TBG 140 LX ME V O2	on request	3N AC 60Hz 380V	2,6	3) 4)
				class 3	200 ÷ 1450	TBG 140 LX ME V CO	on request	3N AC 60Hz 380V	2,6	3) 4)

TO COMPLETE THE BURNER

DESCRIPTION

TBG 140 LX ME V: modulating probe for LCM 100

MODULATING MODE

DESCRIPTION	PART NO.
TBG 140 LX MC: modulation kit	98000057
TBG 140 LX ME: modulation kit	98000059
TBG 140 LX MC/140 LX ME: modulating probe	

NOTES

3 Sound proof lid on burner air intake.

4 Equipped with air closure device.

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.

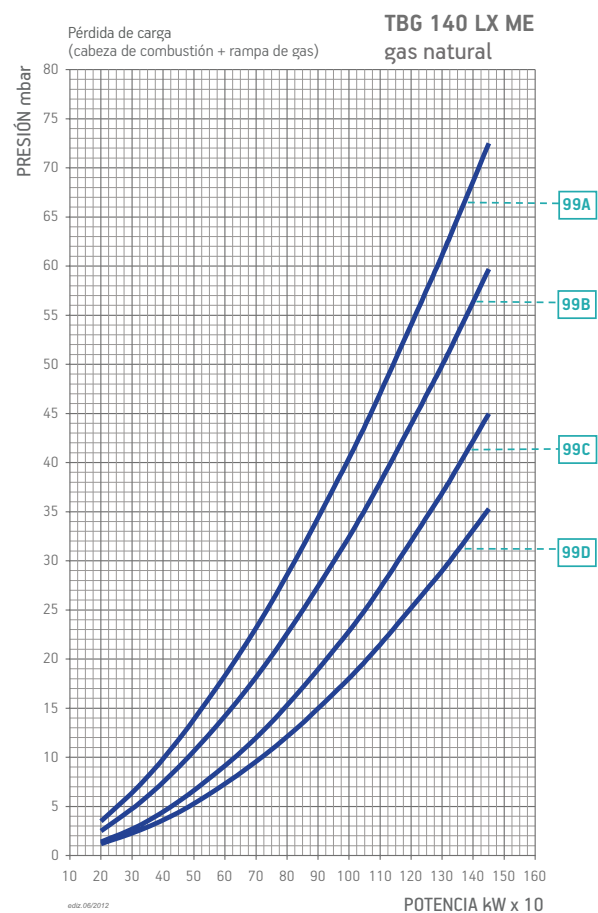
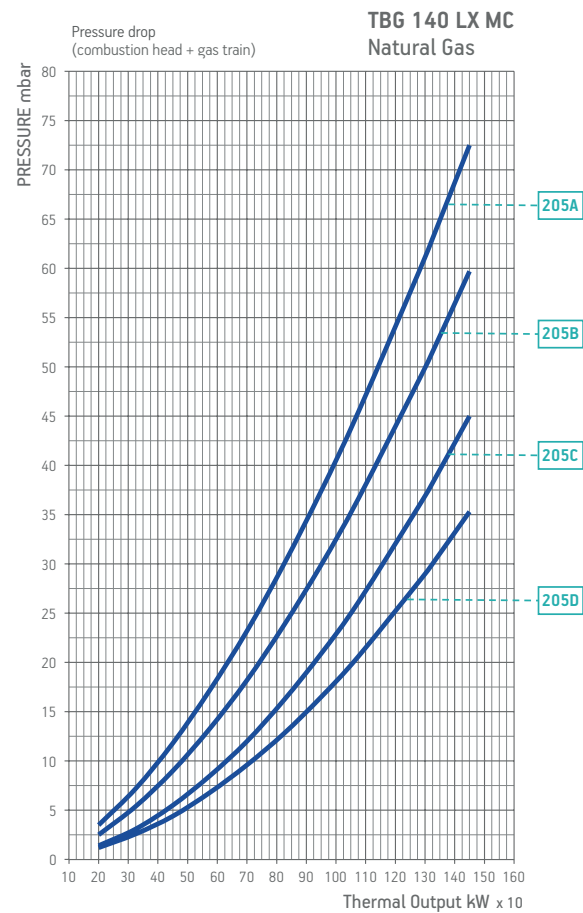
ACCESSORIES AVAILABLE ON REQUEST

DESCRIPTION	PART NO.
Soundproof burner cover	97980053

GAS BURNERS ACCESSORIES

Boiler coupling kit, plug for wiring.

BURNER/GAS TRAIN MATCH



CE gas train version complies with EN676, EXP gas train version is for extra-European markets

Burner model	Gas type	Curve on graph	Version	P.Max ** mbar	Execution	Gas train	Regulator with incorporated filter	Burner/gas train adapter	Valve tightness control kit	Pic.	Notes
						Part no.	Part no.	Part no.	Part no.		
TBG 140 LX MC	Natural gas	205A	CE	360	CTV	19990628	Included	96000007	98000101	B7	11)
			EXP	360	CTV	19990628	Included	96000007	-	BE7	
		205B	CE	360	CTV	19990609	Included	-	98000101	B7	11)
			EXP	360	CTV	19990609	Included	-	-	BE7	
		205C	CE	500	CTV	19990550	Included	-	98000102	B7	11)
			EXP	500	CTV	19990550	Included	-	-	BE7	
		205D	CE	500	CTV	19990563	Included	-	98000101	B7	11)
			EXP	500	CTV	19990563	Included	-	-	BE7	
			CE/EXP	360	CTV	19990561	Included	96000007	Included	D2	
			CE/EXP	360	CTV	19990562	Included	-	Included	D2	
TBG 140 LX ME	Natural gas	99A	CE/EXP	360	CTV	19990561	Included	-	Included	D2	
TBG 140 LX ME V		99B	CE/EXP	360	CTV	19990562	Included	-	Included	D2	
TBG 140 LX ME V O2		99C	CE/EXP	500	CTV	19990524	Included	-	Included	D2	
TBG 140 LX ME V CO		99D	CE/EXP	500	CTV	19990525	Included	-	Included	D2	

To choose the correct gas train please refer to the information on Burners Catalogue.

NOTES

11 The train must be always completed with the VPS kit to comply with the EN676 regulations.

CTV Gas train with Valve Tightness Control.

**) Maximum gas inlet pressure at pressure regulator.

