



GAS BURNERS

TBG 360 LX MC-LX ME



baltur
Energy for People

ООО Промэлектроника
sales@prom-elec.com

АНКАС

sales@prom-elec.com / ООО ПРОМЭЛЕКТРОНИКА

kW 500 - 3600

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.



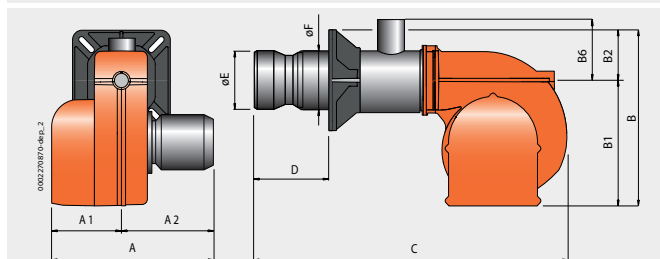
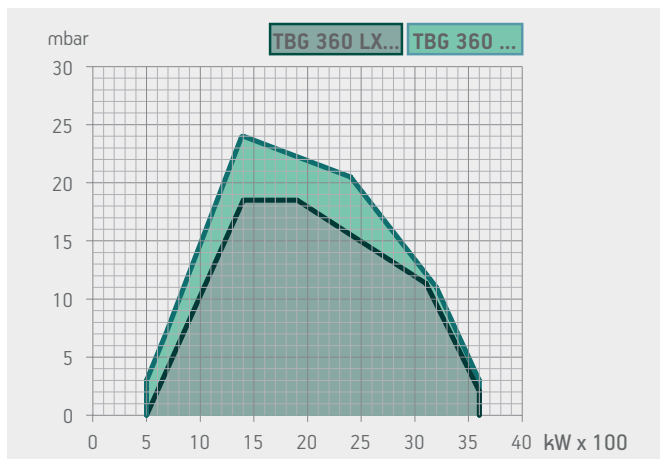
TBG 360 LX MC



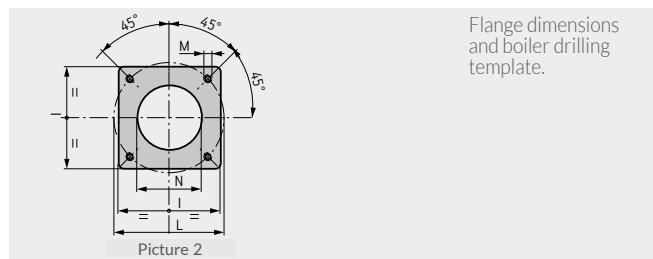
TBG 360 LX ME

Gas burner compliant with European standard EN676. Operation:

	TBG 360 LX MC	TBG 360 LX ME	TBG 360 LX ME V	TBG 360 LX ME V O2	TBG 360 LX 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:	1:7	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.	•	•	•	•	•
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 pressure switch, pressure regulator and gas filter.	•	•	•	•	•
Fail proof connectors for burner/gas train connection.	•	•	•	•	•
Gas train outlet:	up	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 360 LX MC	1070	870	810	119
TBG 360 LX ME	1070	870	810	119
TBG 360 LX ME V	1730	1030	880	136
TBG 360 LX ME V O2	1730	1030	880	148
TBG 360 LX ME V CO	1730	1030	880	160



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 360 LX MC	820	400	420	610	390	220	235	1250	200 ÷ 450	270	219	320	310 ÷ 370	M12	275	2
TBG 360 LX ME	820	400	420	590	390	160	235	1350	200 ÷ 450	270	219	320	310 ÷ 370	M12	275	2
TBG 360 LX ME V	850	400	450	590	390	160	235	1350	200 ÷ 450	270	219	320	310 ÷ 370	M12	275	2
TBG 360 LX ME V O2	850	400	450	590	390	160	235	1350	200 ÷ 450	270	219	320	310 ÷ 370	M12	275	2
TBG 360 LX ME V CO	850	400	450	590	390	160	235	1350	200 ÷ 450	270	219	320	310 ÷ 370	M12	275	2

		O ₂	CO	Emissions class	Thermal output kW	Model	Part no.	Electrical supply	Motor kW	Note
Frequency 50 Hz										
				class 3	500 ÷ 3600	TBG 360 LX MC	17960010	3N AC 50Hz 400V	7,5	3) 4)
				class 3	500 ÷ 3600	TBG 360 LX ME	17950010	3N AC 50Hz 400V	7,5	3) 4)
				class 3	500 ÷ 3600	TBG 360 LX ME V	17950015	3N AC 50Hz 400V	7,5	3) 4)
				class 3	500 ÷ 3600	TBG 360 LX ME V O2	17950016	3N AC 50Hz 400V	7,5	3) 4)
				class 3	500 ÷ 3600	TBG 360 LX ME V CO	17950017	3N AC 50Hz 400V	7,5	3) 4)
Frequency 60 Hz										
				class 3	500 ÷ 3600	TBG 360 LX MC	17965410	3N AC 60Hz 380V	9,0	3) 4)
				class 3	500 ÷ 3600	TBG 360 LX ME	17955410	3N AC 60Hz 380V	9,0	3) 4)
				class 3	500 ÷ 3600	TBG 360 LX ME V	on request	3N AC 60Hz 380V	9,0	3) 4)
				class 3	500 ÷ 3600	TBG 360 LX ME V O2	on request	3N AC 60Hz 380V	9,0	3) 4)
				class 3	500 ÷ 3600	TBG 360 LX ME V CO	on request	3N AC 60Hz 380V	9,0	3) 4)

TO COMPLETE THE BURNER

DESCRIPTION

TBG 360 LX ME V: modulating probe for LCM 100

MODULATING MODE

DESCRIPTION

PART NO.

TBG 360 LX MC: modulation kit	98000057
TBG 360 LX ME: modulation kit	98000059
TBG 360 LX MC/360 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,LPG: Hi = 92 MJ/m³ = 22000 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.

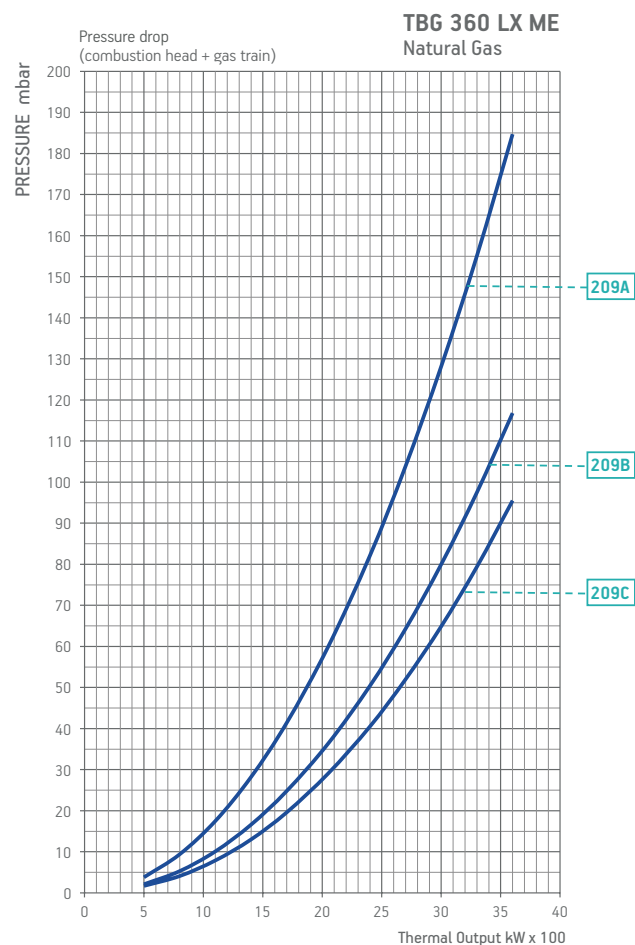
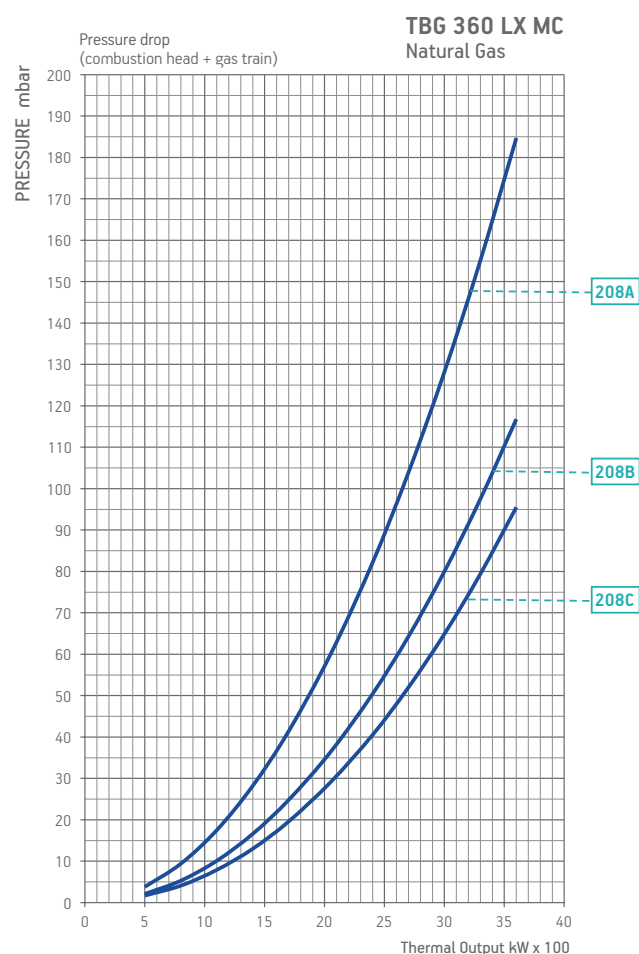
Soundproof burner cover 97980053

GAS BURNERS ACCESSORIES

Boiler coupling kit, plug for wiring.

BURNER/GAS TRAIN MATCH

GAS



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 360 LX MC	Natural gas	208A	CE	500	CTV	19990550	Included	96000035	98000102	B7	11)
			EXP	500	CTV	19990550	Included	96000035	-	BE7	
		208B	CE	500	CTV	19990629	Included	-	98000101	B7	11)
			EXP	500	CTV	19990629	Included	-	-	BE7	
		208C	CE	500	CTV	19990630	Included	-	98000101	B7	11)
			EXP	500	CTV	19990630	Included	-	-	BE7	
TBG 360 LX ME/ME V	Natural gas	209A	CE/EXP	500	CTV	19990524	Included	96000035	Included	D2	
TBG 360 LX ME V O2		209B	CE/EXP	500	CTV	19990577	Included	-	Included	D2	
TBG 360 LX ME V CO		209C	CE/EXP	500	CTV	19990578	Included	-	Included	D2	

Burner model	Gas type	Version	P.Max** mbar	Execution	Gas train	Regulator with incorporated filter	Burner/gas train adapter	Valve tightness control kit	Kit LPG	Pic.	Notes
					Part no.	Part no.	Part no.	Part no.	Part no.		
TBG 360 LX MC	LPG	CE	500	CTV	19990550	Included	96000035	98000102	98000366	B7	11)
		EXP	500	CTV	19990550	Included	96000035	-	98000366	BE7	
					19990550	Included	96000035	98000102	98000366	BE7	
TBG 360 LX ME/ME V	LPG	CE/EXP	500	CTV	19990524	Included	96000035	Included	98000366	D2	

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

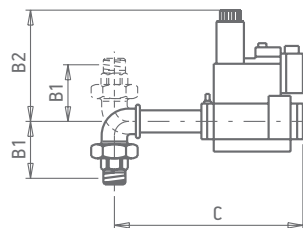
NOTES

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

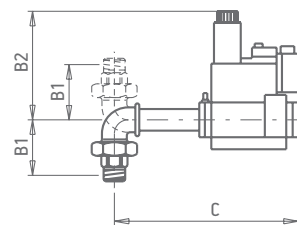
CTV Gas train with Valve Tightness Control.

**) Maximum gas inlet pressure at pressure regulator.

GAS



The diagram shows a pump system. On the left, a pump is connected to a pipe. The pipe has a valve labeled VF. The pipe then enters a dashed box representing the VSD. Inside the box, the pipe passes through a valve labeled VL, then a valve labeled R, then a valve labeled VS, then a pressure sensor labeled Pmin, and finally a filter labeled F. The pipe exits the dashed box and continues to the right, ending in a valve labeled VPS. The flow direction is indicated by an arrow on the right side of the pipe.



The diagram illustrates a water supply system for a building. It begins with a main supply pipe (Ø) entering the building. The pipe passes through a valve (VF) and a vertical riser (VL) to a horizontal distribution line. This line branches off to a pressure meter (Pmc) and a radiator (R). It then continues through a valve (VS) to a fan coil unit (F). The system ends with a return pipe (Ø) and a valve.

