



TBG 360 MC



TBG 360 ME

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:

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:

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 electromagnetic drive, valve tightness control, minimum pressure switch, pressure regulator and gas filter.

Fail proof connectors for burner/gas train connection.

Gas train outlet:

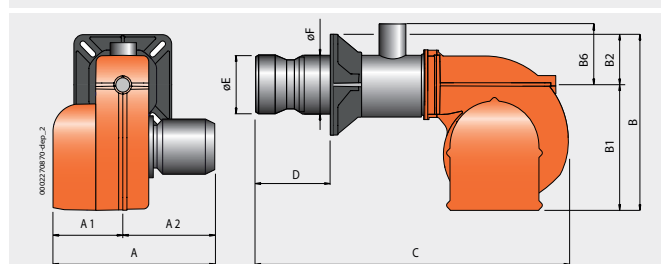
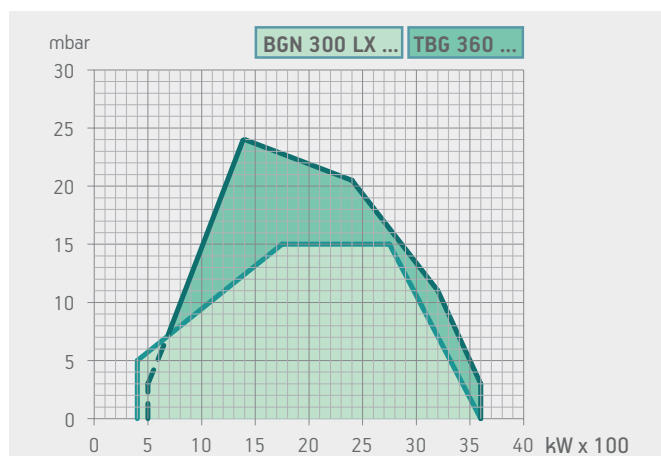
Flame detection by ionisation electrode with connector for microamperometer.

Control panel with display diagram for working mode with indication lights.

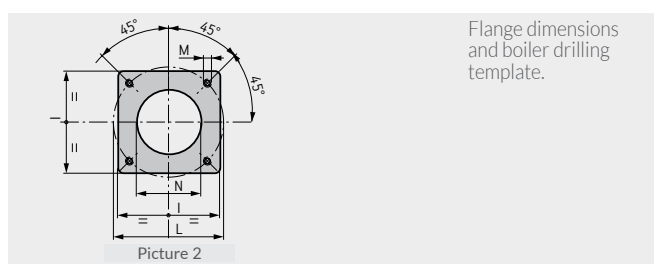
Control panel equipped either with display showing the working process and with the keyboard for the burner adjustment.

Electric protection rating:

TBG 360 MC	TBG 360 ME	TBG 360 ME V	TBG 360 ME V O2	TBG 360 ME V CO
mechanical two-stage progressive	electronic two-stage progressive	modulating electronic	modulating electronic	modulating electronic
•	•			
1:7	1:7	1:7	1:7	1:7
class 2	class 2	class 2	class 2	class 2
•	•	•	•	•
•	•	•	•	•
•	•	•	•	•
•	•	•	•	•
•	•	•	•	•
mechanical cam	electric servomotor	electric servomotor	electric servomotor	electric servomotor
•	•	•	•	•
•	•	•	•	•
		•	•	•
			•	
				•
•	•	•	•	•
up	up/down	up/down	up/down	up/down
•	•	•	•	•
•				
	•	•	•	•
IP44	IP40	IP40	IP40	IP40



Model	Size of packaging			Weight kg
	L	P mm	H	
TBG 360 MC	1070	870	810	118
TBG 360 ME	1070	870	810	118
TBG 360 ME V	1730	1030	880	135
TBG 360 ME V O2	1730	1030	880	147
TBG 360 ME V CO	1730	1030	880	159



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

		O ₂	CO	Emissions class	Thermal output kW	Model	Part no.	Electrical supply kW	Motor	Note
Frequency 50 Hz										
NEW				class 2	500 ÷ 3600	TBG 360 MC	17790010	3N AC 50Hz 400V	7,5	3) 4)
NEW				class 2	500 ÷ 3600	TBG 360 ME	17800010	3N AC 50Hz 400V	7,5	3) 4)
NEW				class 2	500 ÷ 3600	TBG 360 ME V	17800015	3N AC 50Hz 400V	7,5	3) 4)
NEW				class 2	500 ÷ 3600	TBG 360 ME V O2	17800016	3N AC 50Hz 400V	7,5	3) 4)
NEW				class 2	500 ÷ 3600	TBG 360 ME V CO	17800017	3N AC 50Hz 400V	7,5	3) 4)
Frequency 60 Hz										
NEW				class 2	500 ÷ 3600	TBG 360 MC	17795410	3N AC 60Hz 380V	9,0	3) 4)
NEW				class 2	500 ÷ 3600	TBG 360 ME	17805410	3N AC 60Hz 380V	9,0	3) 4)
NEW				class 2	500 ÷ 3600	TBG 360 ME V	on request	3N AC 60Hz 380V	9,0	3) 4)
NEW				class 2	500 ÷ 3600	TBG 360 ME V O2	on request	3N AC 60Hz 380V	9,0	3) 4)
NEW				class 2	500 ÷ 3600	TBG 360 ME V CO	on request	3N AC 60Hz 380V	9,0	3) 4)

TO COMPLETE THE BURNER

DESCRIPTION	PART NO.
TBG 360 ME V: modulating probe kit LCM 100 (see page 288)	

MODULATING MODE

DESCRIPTION	PART NO.
TBG 360 MC: modulation kit	98000057
TBG 360 ME: modulation kit	98000059
TBG 360 MC/360 ME: modulating probe kit (see page 288)	

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.

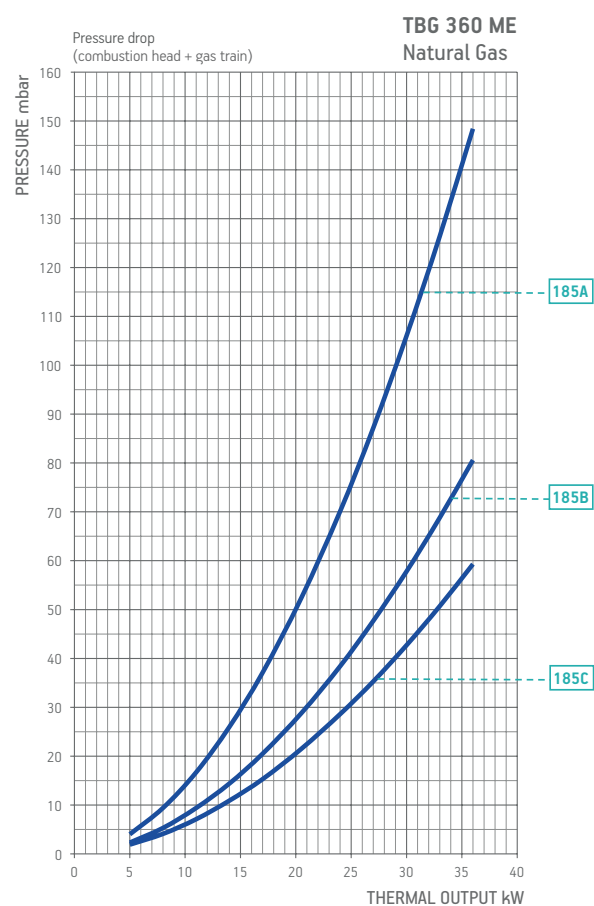
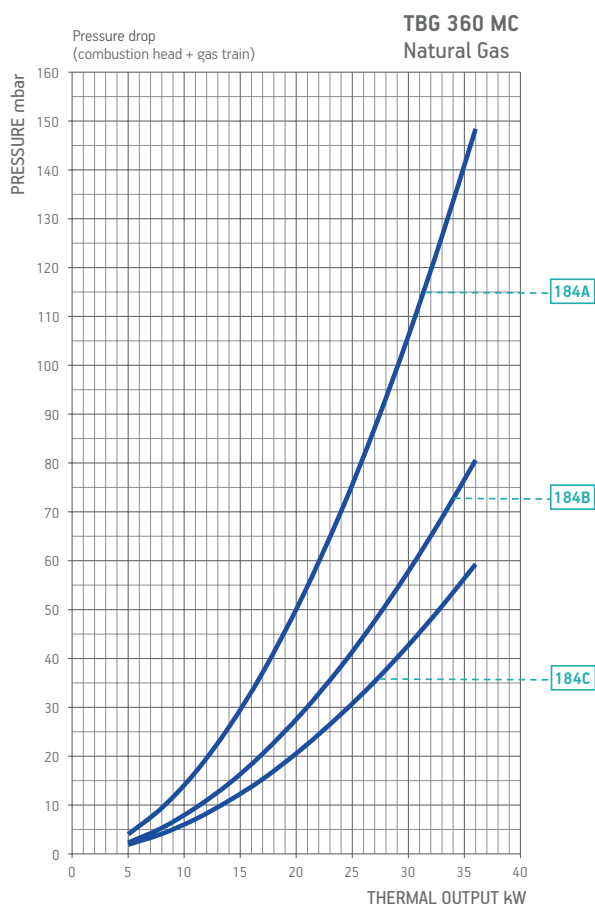
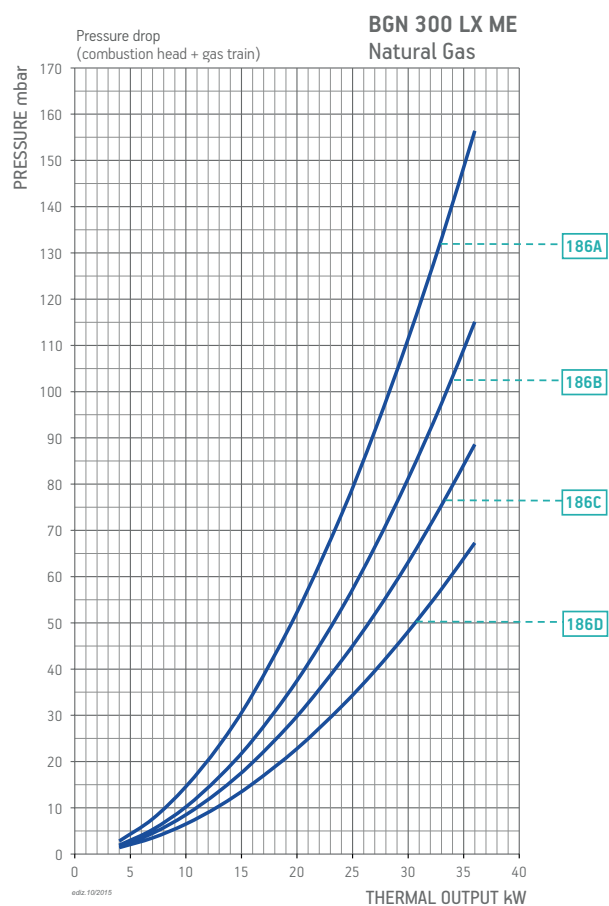
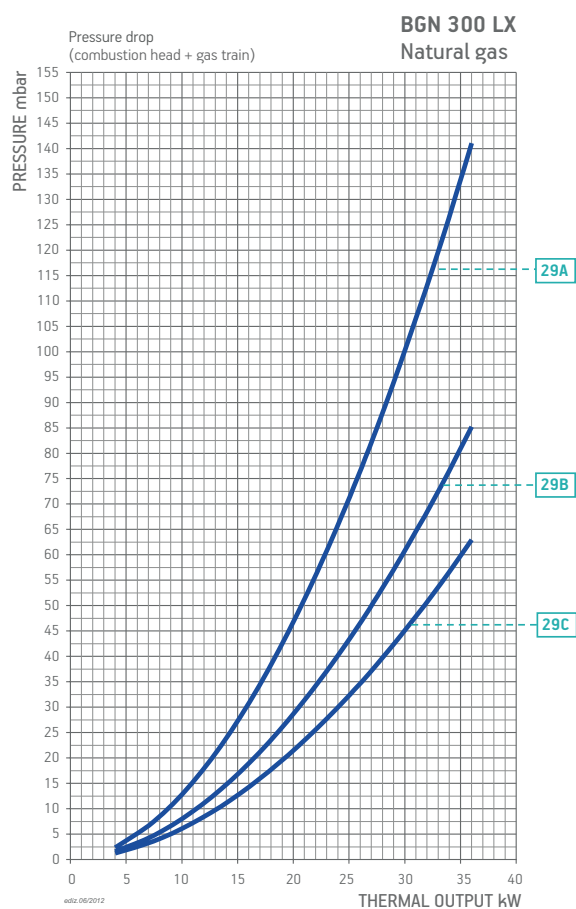
For different type of gas and pressure values, please get in contact with our commercial department.

ACCESSORIES AVAILABLE ON REQUEST

DESCRIPTION	PART NO.
Soundproof burner cover (see page. 293)	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 **	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.		
BGN 300 LX BGN 300 LX V		29A	CE	500	CTV	19990530	Included	96000012	98000102	D3	11)
			EXP	500	CTV	19990530	Included	96000012	-	DE3	
			CE	500	CTV	19990539	Included	96005003	98000101	D3	11)
			EXP	500	CTV	19990539	Included	96005003	-	DE3	
			CE	500	CTV	19990485	Included	96005004	98000101	D3	11)
			EXP	500	CTV	19990485	Included	96005004	-	DE3	
		29B	CE	500	CTV	19990524	Included	96000035	Included	D2	
			EXP	500	CTV	19990614	Included	-	Included	D2	
			CE	500	CTV	19990577	Included	-	Included	D2	
			EXP	500	CTV	19990578	Included	-	Included	D2	
			CE	500	CTV	19990550	Included	-	98000102	B7	11)
			EXP	500	CTV	19990550	Included	-	-	BE7	
BGN 300 LX ME BGN 300 LX ME V BGN 300 LX ME V O2 BGN 300 LX ME V CO	Natural gas	184A	CE	500	CTV	19990550	Included	-	98000102	B7	11)
			EXP	500	CTV	19990550	Included	-	-	BE7	
			CE	500	CTV	19990563	Included	-	98000101	B7	11)
			EXP	500	CTV	19990563	Included	-	-	BE7	
			CE	500	CTV	19990564	Included	-	98000101	B7	11)
			EXP	500	CTV	19990564	Included	-	-	BE7	
		184B	CE	500	CTV	19990524	Included	-	Included	D2	
			EXP	500	CTV	19990525	Included	-	Included	D2	
			CE	500	CTV	19990526	Included	-	Included	D2	
			EXP	500	CTV	19990526	Included	-	-	BE7	
			CE	500	CTV	19990524	Included	-	Included	D2	
			EXP	500	CTV	19990525	Included	-	Included	D2	
TBG 360 MC	Natural gas	184A	CE	500	CTV	19990550	Included	-	98000102	B7	11)
			EXP	500	CTV	19990550	Included	-	-	BE7	
			CE	500	CTV	19990563	Included	-	98000101	B7	11)
			EXP	500	CTV	19990563	Included	-	-	BE7	
			CE	500	CTV	19990564	Included	-	98000101	B7	11)
			EXP	500	CTV	19990564	Included	-	-	BE7	
		184B	CE	500	CTV	19990524	Included	-	Included	D2	
			EXP	500	CTV	19990525	Included	-	Included	D2	
			CE	500	CTV	19990526	Included	-	Included	D2	
			EXP	500	CTV	19990526	Included	-	-	BE7	
			CE	500	CTV	19990524	Included	-	Included	D2	
			EXP	500	CTV	19990525	Included	-	Included	D2	
TBG 360 ME/ME V TBG 360 ME V O2 TBG 360 ME V CO	Natural gas	185A	CE	500	CTV	19990524	Included	-	Included	D2	
			EXP	500	CTV	19990525	Included	-	Included	D2	
			CE	500	CTV	19990526	Included	-	Included	D2	
			EXP	500	CTV	19990526	Included	-	-	BE7	
			CE	500	CTV	19990524	Included	-	Included	D2	
			EXP	500	CTV	19990525	Included	-	Included	D2	
		185B	CE	500	CTV	19990524	Included	-	Included	D2	
			EXP	500	CTV	19990525	Included	-	Included	D2	
			CE	500	CTV	19990526	Included	-	Included	D2	
			EXP	500	CTV	19990526	Included	-	-	BE7	
			CE	500	CTV	19990524	Included	-	Included	D2	
			EXP	500	CTV	19990525	Included	-	Included	D2	

Burner model	Gas type	Version	P.Max **	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 MC	LPG	CE	500	CTV	19990550	Included	-	98000102	98000366	B7	11)
		EXP	500	CTV	19990550	Included	-	-	98000366	BE7	
		EXP	500	CTV	19990550	Included	-	98000102	98000366	BE7	
TBG 360 ME/ME V TBG 360 ME V O2 TBG 360 ME V CO	LPG	CE/EXP	500	CTV	19990524	Included	-	Included	98000366	D2	

To choose the correct gas train please refer to the information on page 20.

For information on the structure, composition, and size of the gas train please refer to the diagrams on page 294.

NOTES

9 The min feeding gas pressure at the inlet of the gas train can not be lower than 100 mbar.

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.