



GAS BURNERS

TBG 200 LX MC - LX ME



baltur
Energy for People

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АНКАС

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kW 475 - 1900

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.

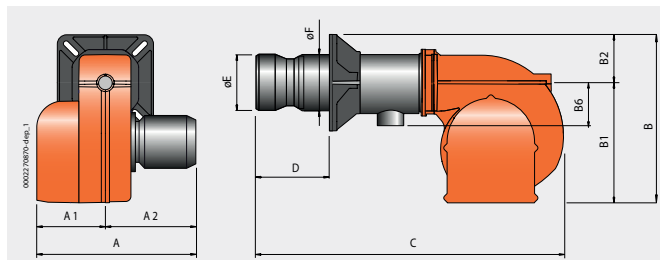
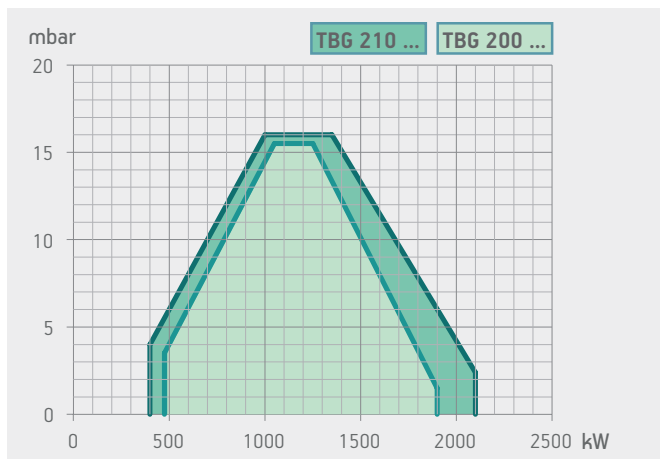


TBG 200 LX MC

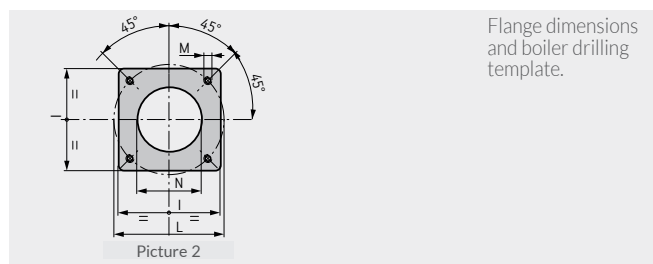


TBG 200 LX ME

	TBG 200 LX MC	TBG 200 LX ME	TBG 200 LX ME V	TBG 200 LX ME V O ₂	TBG 200 LX 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:	1:4	1:4	1:4	1:4	1:4
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 200 LX MC	1070	800	700	94
TBG 200 LX ME	1070	800	700	94
TBG 200 LX ME V	1530	760	700	110
TBG 200 LX ME V O2	1530	760	700	122
TBG 200 LX ME V CO	1530	760	700	134



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 200 LX MC	690	320	370	550	380	170	200	1280	200 ÷ 450	250	219	320	280 ÷ 370	M12	255	2
TBG 200 LX ME	610	240	370	540	380	160	200	1315	200 ÷ 450	250	219	320	280 ÷ 370	M12	255	2
TBG 200 LX ME V	670	300	370	540	380	160	200	1315	200 ÷ 450	250	219	320	280 ÷ 370	M12	255	2
TBG 200 LX ME V O2	670	300	370	540	380	160	200	1315	200 ÷ 450	250	219	320	280 ÷ 370	M12	255	2
TBG 200 LX ME V CO	670	300	370	540	380	160	200	1315	200 ÷ 450	250	219	320	280 ÷ 370	M12	255	2

	Inverter	O ₂	CO	Emissions class	Thermal output kW	Model	Part no.	Electrical supply	Motor kW	Note
Frequency 50 Hz										
				class 3	475 ÷ 1900	TBG 200 LX MC	17930010	3N AC 50Hz 400V	3,0	3) 4)
				class 3	475 ÷ 1900	TBG 200 LX ME	17740020	3N AC 50Hz 400V	3,0	3) 4)
				class 3	475 ÷ 1900	TBG 200 LX ME V	17740025	3N AC 50Hz 400V	3,0	3) 4)
				class 3	475 ÷ 1900	TBG 200 LX ME V O2	17740026	3N AC 50Hz 400V	3,0	3) 4)
				class 3	475 ÷ 1900	TBG 200 LX ME V CO	17740027	3N AC 50Hz 400V	3,0	3) 4)
Frequency 60 Hz										
				class 3	475 ÷ 1900	TBG 200 LX MC	17935410	3N AC 60Hz 380V	3,5	3) 4)
				class 3	475 ÷ 1900	TBG 200 LX ME	17745420	3N AC 60Hz 380V	3,5	3) 4)
				class 3	475 ÷ 1900	TBG 200 LX ME V	on request	3N AC 60Hz 380V	3,5	3) 4)
				class 3	475 ÷ 1900	TBG 200 LX ME V O2	on request	3N AC 60Hz 380V	3,5	3) 4)
				class 3	475 ÷ 1900	TBG 200 LX ME V CO	on request	3N AC 60Hz 380V	3,5	3) 4)

TO COMPLETE THE BURNER

DESCRIPTION

TBG 200 LX ME V: modulating probe for LCM 100

MODULATING MODE

DESCRIPTION	PART NO.
TBG 200 LX MC: modulation kit	98000057
TBG 200 LX ME: modulation kit	98000059
TBG 200 LX MC/200 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: $H_i = 35,80 \text{ MJ/m}^3 = 8550 \text{ kcal/m}^3$.

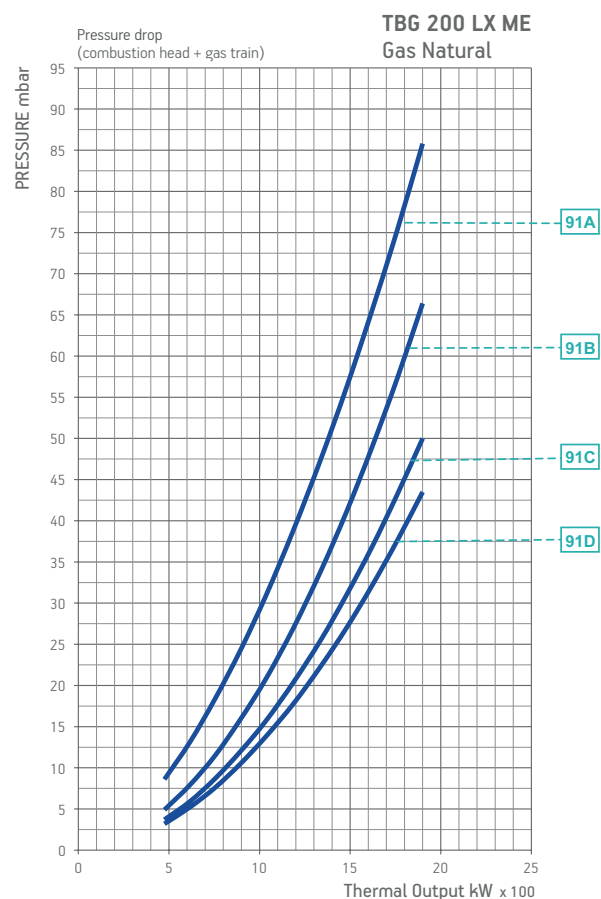
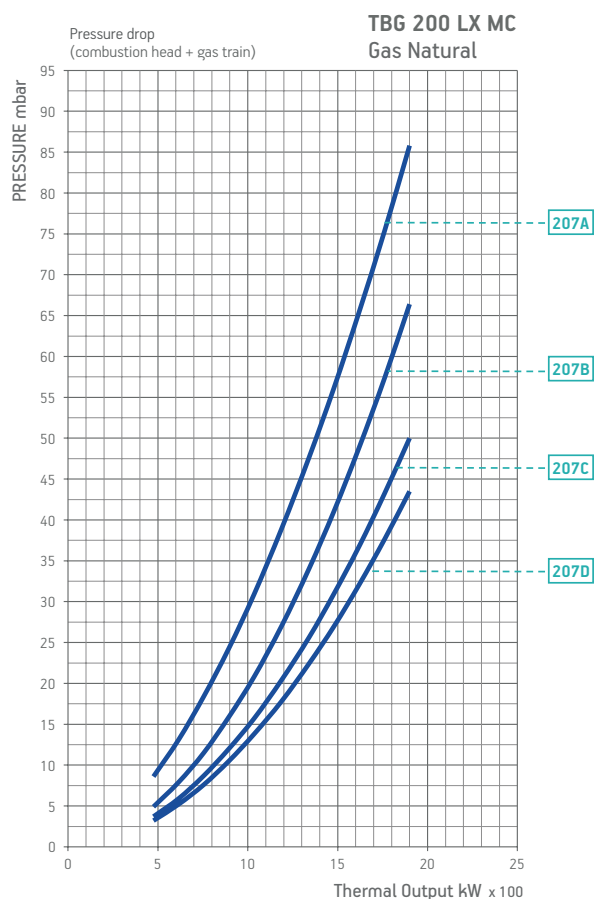
For different type of gas and pressure values, please get in contact with our commercial department.

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 200 LX MC	Natural gas	207A	CE	360	CTV	19990609	Included	-	98000101	B7	11)
			EXP	360	CTV	19990609	Included	-	-	BE7	
		207B	CE	500	CTV	19990550	Included	-	98000101	B7	11)
			EXP	500	CTV	19990550	Included	-	-	BE7	
		207C	CE	500	CTV	19990563	Included	-	98000101	B7	11)
			EXP	500	CTV	19990563	Included	-	-	BE7	
		207D	CE	500	CTV	19990564	Included	-	98000101	B7	11)
			EXP	500	CTV	19990564	Included	-	-	BE7	
		91A	CE/EXP	360	CTV	19990562	Included	-	Included	D2	
			CE/EXP	500	CTV	19990524	Included	-	Included	D2	
			CE/EXP	500	CTV	19990525	Included	-	Included	D2	
			CE/EXP	500	CTV	19990526	Included	-	Included	D2	

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

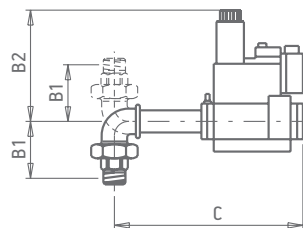
NOTES

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

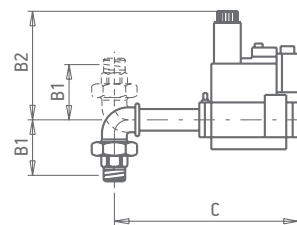
CTV Gas train with Valve Tightness Control.

**) Maximum gas inlet pressure at pressure regulator.

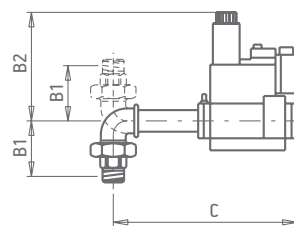
GAS



Gas train Part no.									Gas train dimensions mm			Size of packaging mm	Weight
	F	Pmin	R	VF	VL	VPS	VS	Ø	B1	B2	C	L x P x H	kg
19990550 (VGD20.503 - 2")	●	●	●	◆	●	▲	●	2"	114	285	890	990 x 300 x 500	15
19990563 (VGD40.065 - 2"1/2)	●	●	●	◆	●	▲	●	DN65	114	320	1120	1380 x 430 x 700	26
19990564 (VGD40.080 - 3")	●	●	●	◆	●	▲	●	DN80	114	325	1175	1380 x 430 x 700	28
19990609 (MB...420 - 2")	●	●	●	◆	●	▲	●	2"	114	220	600	460 x 250 x 460	13



Gas train Part no.	Position								Gas train dimensions mm			Size of packaging mm	Weight
	F	Pmin	R	VF	VL	VPS	VS	Ø	B1	B2	C	L x P x H	kg
19990550 (VGD20.503 - 2")	●	●	●	◆	●	■	●	2"	114	285	890	990 x 300 x 500	15
19990563 (VGD40.065 - 2"1/2)	●	●	●	◆	●	■	●	DN65	114	320	1120	1380 x 430 x 700	26
19990564 (VGD40.080 - 3")	●	●	●	◆	●	■	●	DN80	114	325	1175	1380 x 430 x 700	28
19990609 (MB...420 - 2")	●	●	●	◆	●	■	●	2"	114	220	600	460 x 250 x 460	13



Gas train Part no.	Position								Gas train dimensions mm			Size of packaging mm	Weight
	CTV	F	Pmc	R	VF	VL	VS	Ø	B1	B2	C	L x P x H	kg
19990524 (VGD20.503 - 2")	●	●	●	●	◆	●	●	2"	114	285	890	990 x 300 x 500	14
19990525 (VGD40.065 - 2"1/2)	●	●	●	●	◆	●	●	DN65	114	320	1120	1380 x 430 x 700	26
19990526 (VGD40.080 - 3")	●	●	●	●	◆	●	●	DN80	114	325	1175	1380 x 430 x 700	28
19990562 (MB... 420 - 2")	●	●	●	●	◆	●	●	2"	114	220	520	520 x 410 x 410	13

CTV	Valve tightness control.
F	Filter.
LDU	LDU valve tightness control.
Pct	Pressure switch for gas control.
Pmax	Maximum pressure switch.
Pmc	Minimum and control pressure switch gas leaks.
Pmin	Minimum pressure switch.
R	Pressure regulator.
RF	Pressure regulator with filter.

RFP	Pressure regulator with filter for pilot gas train.
RM	Manual flow rate regulator.
RP	Pneumatic regulator.
VF	Regulator throttle valve.
VL	Operating valve.
VL2	Two-stage operating valve.
VLP	Operating pilot valve.
VLR	Operating valve with pressure regulator.

VP	Pilot valve.
VPS	VPS valve tightness control.
VS	Safety valve.
VSP	Safety pilot valve.
Ø	Gas train diameter.
Ø1	Main gas train diameter.
Ø2	Pilot gas train diameter.

- As standard.
- ▲ As standard for burners with an output of more than 1200 kW, on request for burners with an output of less than 1200 kW.
- On request.
- ◆ Mounted on burner.