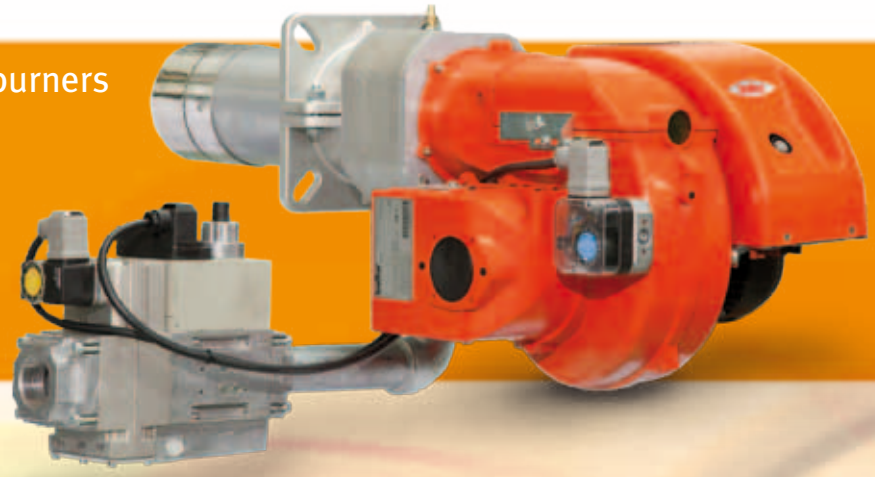
NEW Available from April 2010

TBG 35
from 80 to 410 kW

Low NOx

Single-stage gas burners



CE 0085

Conform to:
Gas Directive 90/396/CEE
E.M.C. Directive 89/336/CEE
L.V. Directive 73/23/CEE
Reference standard: EN676

TECHNICAL AND FUNCTIONAL CHARACTERISTICS

- Low NOx and CO emissions gas burner compliant with European standard EN676 "Class III".
- Single stage operation (on/off).
- Exhaust gas recycling blast-pipe able to achieve very low pollutant emissions, particularly with regard to nitrous oxides (NOx).
- Maintenance facilitated by the fact that the mixing unit can be removed without having to remove the burner from the boiler.
- Manual air flow adjustment.
- Gas regulation by means of a single-stage working valve that is electromagnetically driven.
- Possibility to chose gas train with valve tightness control.
- Gas train exit is possible either from the top or from the bottom.
- Equipped with one 7-pole connector, one flange and one insulating seal for boiler fastening.

CONSTRUCTION CHARACTERISTICS

The burner consists of:
- Air intake with butterfly gate for the regulation of the air combusting flow rate.
- Sliding boiler coupling flange to adapt the head protrusion to the various types of boilers.
- Air pressure switch to ensure the presence of combustion air.
- Gas train including safety and 1°/2° stage working valve that is electromagnetically driven, minimum pressure gange, pressure adjuster and gas filter.
- Flame detection by ionisation electrode.
- Automatic control and command equipment for the burner, compliant with European standard EN298.
- Intelligent connectors for burner/train (error proof).
- 7 poles plug for the auxiliary feeding and for the thermostatic connection.
- Prepared for microamperometer connection with ionisation cable.
- Electrical protection rating IP40.

Thermal output kW	Model	Part no.	Electrical supply	Motor kW	Size of packaging L x P x H mm	Weight kg	Notes
80 ÷ 410	TBG 35	17320010	1N AC 50Hz 230V	0,37	1010 x 490 x 390	38	

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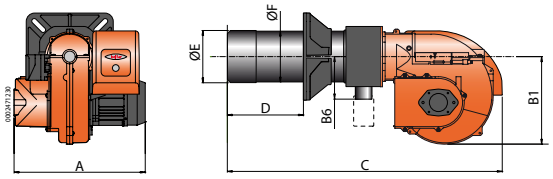
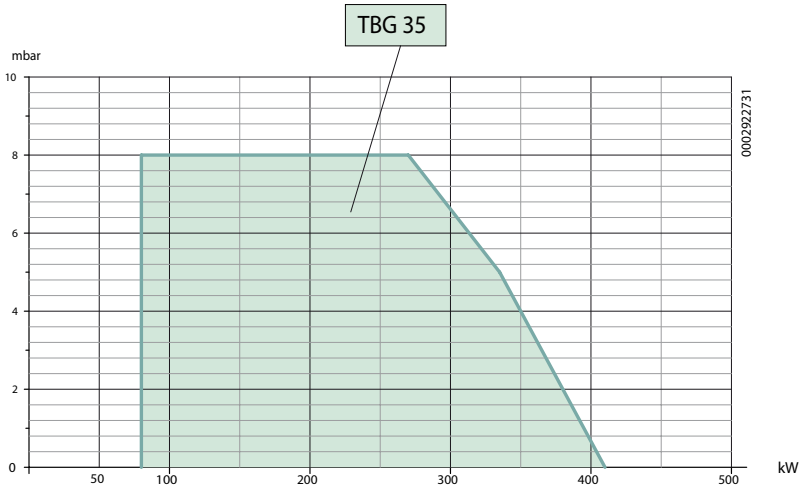




Model	A mm	B1 mm	B6 mm	C mm	D mm	E mm	F mm
TBG 35	440	270	160	860	140 ÷ 300	137	133

Burner/gas train match

Burner model	Gas type	Curve on graph	P.Max ** mbar	Execution	Gas train Part no.	Regulator with incorporated filter Part no.	Burner/gas train adapter Part no.	Valve tightness control kit Part no.		Pic.	Notes
TBG 35	NATURAL GAS	111A	360		19990545	Included	96000005	–	–	M2	
				CTV	19990545	Included	96000005	98000100	480,00	M2	
		111B	360		19990546	Included	96000004	–	–	M2	
				CTV	19990546	Included	96000004	98000100	480,00	M2	
		111C	360		19990547	Included	96000004	–	–	M2	
				CTV	19990547	Included	96000004	98000100	480,00	M2	
		111D	360		19990548	Included	–	–	–	M2	
				CTV	19990548	Included	–	98000100	480,00	M2	

Burner model	Gas type	P.Min * mbar	Execution	Gas train Part no.	Regulator with incorporated filter Part no.	Burner/gas train adapter Part no.	Valve tightness control kit Part no.	Pic.	Notes
TBG 35	LPG	30		19990545	Included	96000005	–	M2	
			CTV	19990545	Included	96000005	98000100	M2	

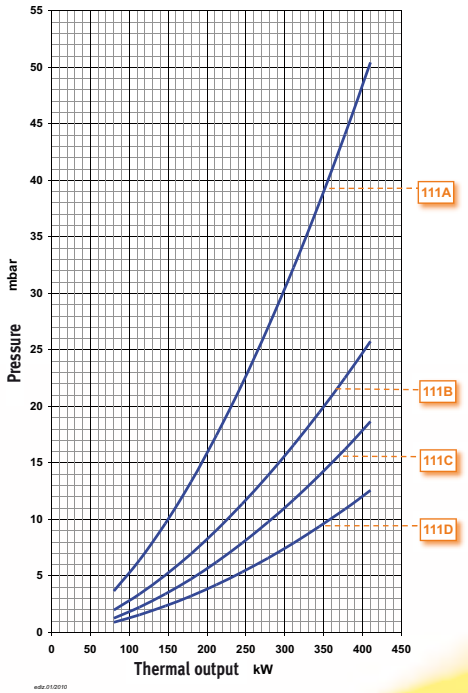
Notes

CTV) Gas train with Valve Tightness Control.

*) Minimum gas train inlet pressure needed to obtain maximum burner power with a combustion chamber backpressure of zero.

**) Maximum gas inlet pressure at pressure regulator in CE version, at gas train for EXP version.
Net calorific value at reference conditions of 0°C, 1013mbar:
Natural gas HI 35,8MJ/m^3 = 8550 kcal/m^3
LPG HI 92MJ/m^3 = 22000 kcal/m^3

Pressure drop (combustion head + gas train + pressure regulator) **TBG 35 Natural gas CE**



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