

# TBG...ME

From 300 to 2100 kW

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

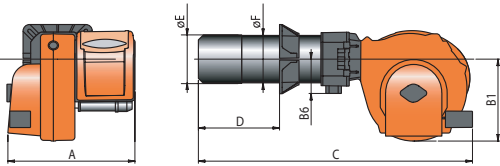


## TECHNICAL AND FUNCTIONAL CHARACTERISTICS

- Gas-fired burner CE certified according to standard EN676.
- Two-stage progressive/modulating operation.
- Gas adjustment by throttle valve controlled by electronically controlled step servo motor.
- Partial combustion gas recirculation blast-pipe with low NOx emissions (class II).
- High ventilation efficiency, low electrical input, low noise.
- Hinge opening on both sides for easy access to the combustion head when burner is installed.
- Air capacity adjustment by means of linear opening damper using electronically controlled step servo motor.
- Air damper closing when burner does not work.
- Electrical panel that connects by 4 and 7 pole plugs/sockets (standard accessories).
- Electrical panel with protection rating of IP 55.
- Sliding boiler coupling flange to adapt to head protrusion of the various types of boilers.
- 1:5 High turndown ratio.

## CONSTRUCTION CHARACTERISTICS

- Combustion air input with sound insulation and designed for optimal air damper opening linearity.
  - Light die-cast aluminium alloy electrical panel.
  - Control panel with display diagram for working mode with indication lights, start/stop switch, burner shut-off selector and burner unblocking button; possibility to install RWF 40 electronic modulator.
  - Electronic control box compliant with standard EN298, with microprocessor, integrated valves' seal control; suitable for eBus connection.
  - Working sequence and fault code display.
  - Ionizer electrode flame detection.
  - Intelligent connectors for burner/train (error proof).
- To be ordered separately:
- Gas train with safety and operation valve, minimum pressure switch, pressure regulator and gas filter.



Model	A mm	B 1 mm	B 6 mm	C mm	D mm	E mm	F mm
TBG 150 ME	610	380	200	1315	200 ÷ 450	240	219
TBG 210 ME	610	380	200	1315	200 ÷ 450	250	219

Thermal output kW	Model	Part no.	Electrical supply	Motor kW	Size of packaging L x P x H mm	Weight kg	Notes
<b>Frequency 50 Hz</b>							
300 ÷ 1500	TBG 150 ME	17640010	3N AC 50Hz 400V	2,2	1080 x 770 x 700	91	4) 13)
400 ÷ 2100	TBG 210 ME	17710010	3N AC 50Hz 400V	3,0	1080 x 770 x 700	94	4) 13)
<b>Frequency 60 Hz</b>							
300 ÷ 1500	TBG 150 ME	17645410	3N AC 60Hz 400V	2,2	1080 x 770 x 700	91	4) 13)
400 ÷ 2100	TBG 210 ME	17715410	3N AC 60Hz 400V	3,5	1080 x 770 x 700	94	4) 13)

### Modulating mode

#### Part.no

98000053 Kit RWF 40 - Modulation kit (see page 230).

### Accessories available on request

#### Part.no

97980053 Soundproof burner cover (see page 247)

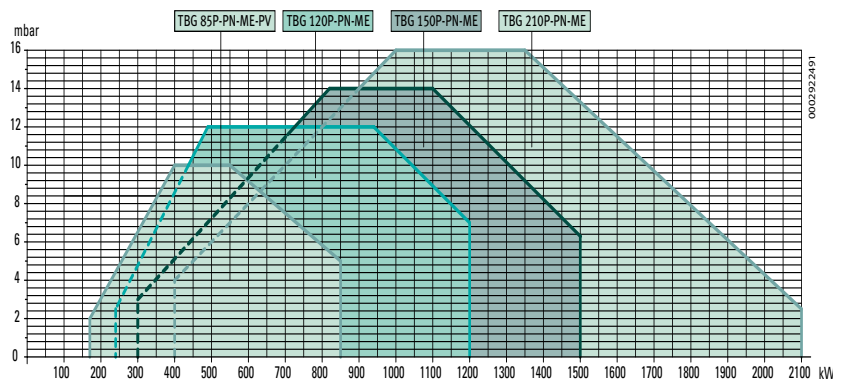
### Gas burner accessories

Boiler coupling kit - 4 and 7 pin plug

### Notes

- 4) Equipped with air closure device.  
 13) Equipped 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<sup>3</sup> = 8550 kcal/m<sup>3</sup>  
 LPG HI 92MJ/m<sup>3</sup> = 22000 kcal/m<sup>3</sup>



# Burner/gas train match

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

Burner model	Gas type	Version	Curve on graph	P.Max** mbar	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 150 ME	NATURAL GAS	CE / EXP	76A	500	19990522	Included	96000007	Included	D2	
			76B	500	19990523	Included	–	Included	D2	
			76C	500	19990525	Included	–	Included	D2	
TBG 210 ME	NATURAL GAS	CE / EXP	89A	500	19990523	Included	–	Included	D2	
			89B	500	19990525	Included	–	Included	D2	
			89C	500	19990526	Included	–	Included	D2	

Burner model	Gas type	Version	P.Min* mbar	Gas train Part no.	Regulator with incorporated filter Part no.	Burner/gas train adapter Part no.	Valve tightness control kit Part no.	LPG nozzles kit	Pic.	Notes
TBG 150 ME	LPG	CE/EXP	30	19990523	Included	–	Included	–	D2	
TBG 210 ME	LPG	CE/EXP	30	19990523	Included	–	Included	98000359	D2	

To choose the correct gas train please refer to the information on page 10.  
For information on the structure, composition, and size of the gas train please refer to the diagrams on page 234.

