

BGN...DSPGN ME

From 400 to 3950 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

- Two-stage progressive output operation.
- Ability to operate with output modulation by means of automatic RWF40 regulator mounted on the control panel (to be ordered separately with the modulation kit).
- Ability to operate with any type of combustion chamber.
- Air-gas mixing at blast-pipe.
- Ability to obtain optimal combustion values by regulating combustion air and blast-pipe.
- Maintenance facilitated by the fact that

- the mixing unit can be removed without having to remove the burner from the boiler.
- Minimum and maximum air flow regulation for first and second stage by means of electric servomotor with pause closure of gate to prevent any heat dispersion to flue.
- Valves tightness control device compliant with European standard EN676.
- Equipped with one flange and one insulating seal for boiler fastening.

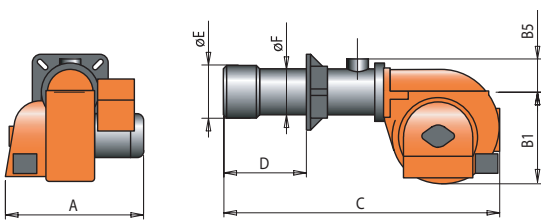
CONSTRUCTION CHARACTERISTICS

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.
- Flame viewer.
- Air pressure switch to ensure the presence of combustion air.
- Electric servo step motors for simultaneous control of combustion air and fuel.
- Burner automatic command and control equipment with microprocessor (electronic cam) in compliance with European standard EN298, with valve tightness control and eBus connection. Display for operating sequence and error

- code in the event of a lockout.
- Flame detection by ionisation electrode.
- Synoptic control panel with stop/go switch and burner off, block indicators, keyboard for electronic cam pianification.
- 7 poles plug for the auxiliary feeding and for the thermostatic connection, 4 poles outlet for the connection of the capacity electronic regulator.
- Electrical protection rating IP40.

- To be ordered separately:
- Gas train complete with control, operating and safety valve, valve tightness control, minimum pressure switch, pressure regulator and gas filter.



Model	A mm	B1 mm	B5 mm	C mm	D mm	E mm	F mm
BGN 350 DSPGN ME	880	580	220	1685	275 ÷ 465	356	275
BGN 400 DSPGN ME	880	580	177	1685	280 ÷ 480	316	275

Thermal output kW	Model	Part no.	Electrical supply	Motor kW	Size of packaging L x P x H mm	Weight kg	Notes
Frequency 50 Hz							
924 ÷ 3500	BGN 350 DSPGN ME	16890010	3N AC 50Hz 400V	7,5	2030 x 1210 x 990	290	4) 13)
400 ÷ 3950	BGN 400 DSPGN ME	16920010	3N AC 50Hz 400V	7,5	2030 x 1210 x 990	310	4) 13)
Frequency 60 Hz							
924 ÷ 3500	BGN 350 DSPGN ME	16895410	3N AC 60Hz 400V	9	2030 x 1210 x 990	290	4) 13)
400 ÷ 3950	BGN 400 DSPGN ME	16925410	3N AC 60Hz 400V	9	2030 x 1210 x 990	310	4) 13)

The working field of the burner, as expressed in the "Thermal output kW" column, depends on the characteristics of the gas train it works with (see burner/train match diagram).

Modulating mode

Part.no
98000053 Kit RWF 40 - Modulation kit (see page 230).

Accessories available on request

Part no.
97980057 Soundproof burner cover (see page 247)

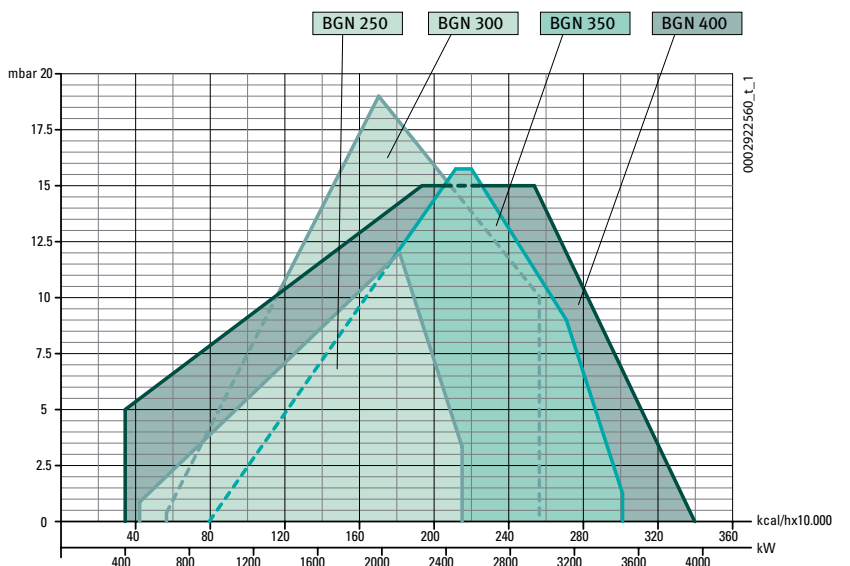
Gas burner accessories

Boiler coupling kit - 4 and 7 pin plug
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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/m³ = 8550 kcal/m³
 LPG HI 92MJ/m³ = 22000 kcal/m³



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
BGN 350 DSPGN ME	NATURAL GAS	CE / EXP	60A	500	19990504	Included	96000012	Included	D2	
			60B	500	19990505	Included	96005003	Included	D2	
			60C	500	19990506	Included	96005004	Included	D2	
BGN 400 DSPGN ME	NATURAL GAS	CE / EXP	86A	500	19990504	Included	96000012	Included	D2	
			86B	500	19990505	Included	96005003	Included	D2	
			86C	500	19990506	Included	96005004	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.	Pic.	Notes
BGN 350 DSPGN ME	LPG	CE/EXP	30	19990505	Included	96005003	Included	D2	
BGN 400 DSPGN ME	LPG	CE/EXP	40	19990505	Included	96005003	Included	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.

