

SGB-350/400/450/480-F/PB-...

**AUTOMATICALLY CONTROLLED COMPACT GAS
BURNERS
1200-4800 kW**

**Flexible turndown range
High combustion efficiency
Reliable construction
Easy and simple to maintenance
Environmentally friendly**

SGB-350/400/450/480-F/PB-...gas burners



GB-GANZ

Tüzeléstechnikai Kft.
Hungary

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General information:

Having developed the SGB gas burner series we should like to provide modern firing devices for an economic and efficient gas combustion. The compact, fully automatically controlled burners are suitable for combustion of natural gas and LPG. The simple construction makes quick fitting and set-up possible, the use of excellent-quality safety-, and control devices results in low maintenance cost. Depending on the user's requirements, burner can have the following output control systems: HIGH/LOW with slow load change and Modulating, by the actual thermal request. Gas/air ratio control can be adjusted by pneumatic or mechanical way, by the user's request. During operation the primary burner control unit is continuously detecting the flame, the gas and air pressure. Gas train is equipped with leakage control unit. In manufacturing we highly take the users' requirements into consideration, so that beside the mass-produced burners there is a possibility of delivering also special versions. Standard or extended air-tube equipped burners are well adaptable to any furnace chamber. Ordering burner, kind of gas and its pressure have to be taken into consideration. Commissioning relevant legislations and standards have to be observed. The burners can be mounted on heating appliances of industrial, agricultural, or communal plants as follows:

boilers

- hot-air blowers
- agricultural and industrial dryers
- other equipments of technology

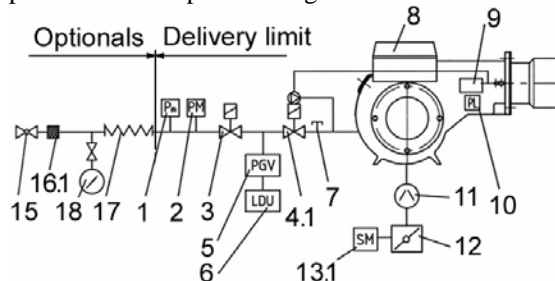
Advantages:

- high combustion efficiency
- flexible turndown range
- stable flame
- simple assemblage, quick maintenance
- wide range of optional accessories

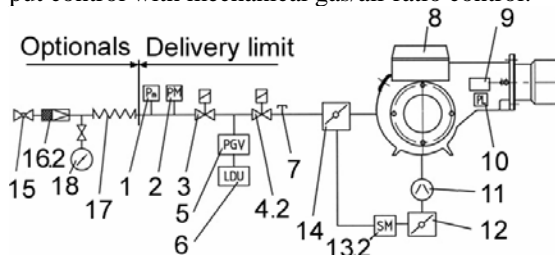
- environment-safe, low-pollutant emission
- reliable construction
- long-life operation

Gas train configurations:

HIGH/LOW slow load change and Modulating output control with pneumatic gas/air ratio control:



HIGH/LOW slow load change and Modulating output control with mechanical gas/air ratio control:



1. Minimum gas pressure switch
2. Maximum gas pressure switch
3. Safety gas valve
- 4.1 Main gas valve with gas/air ratio control
- 4.2 Main gas valve
5. Gas pressure switch for gas leakage control
6. Gas leakage control unit
7. Gauge pin
8. Control box with primary control unit
9. Ignition transformer
10. Air pressure switch
11. Air blower
12. Air damper
- 13.1 Air damper motor
- 13.2 Gas and air damper two-shafted motor
14. Gas butterfly damper

Options for special request:

15. Manual globe-cock
 - 16.1 Filter
 - 16.2 Gas pressure governor with filter incorp.
 17. Antivibrating connection
 18. Pressure gauge
- Burner output control unit

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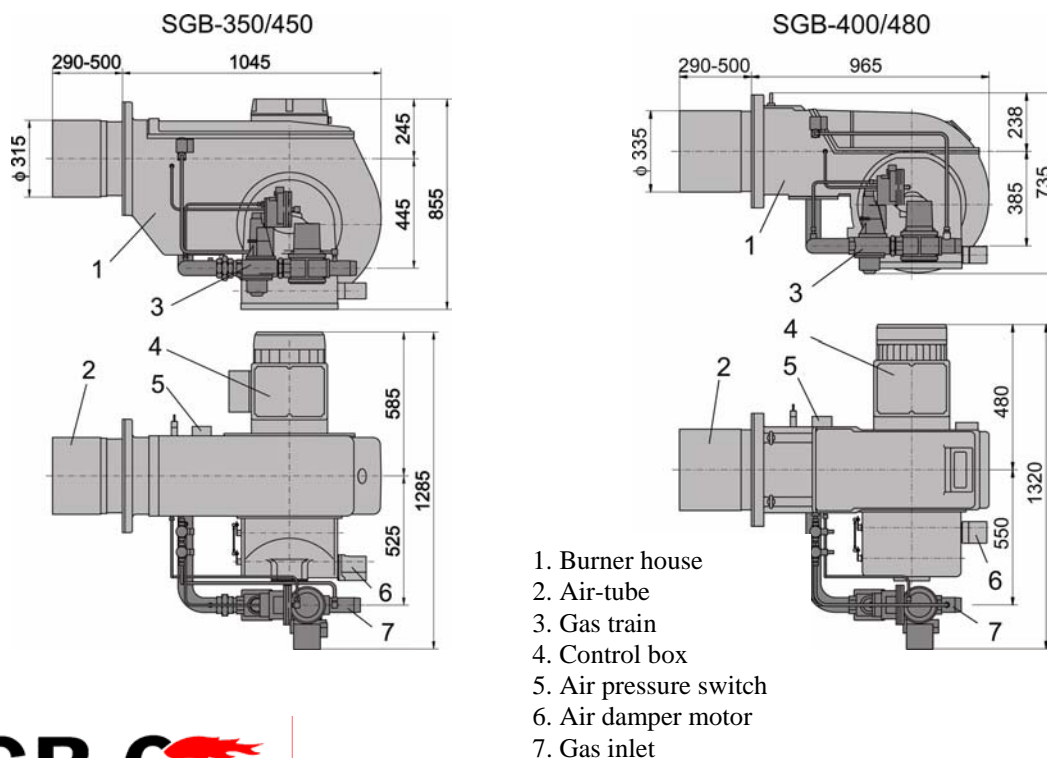
Main technical data:

Type	SGB-350	SGB-400	SGB-450	SGB-480
Output range	1200-3500 kW	1400-4000 kW	1400-4500 kW	1500-4800 kW
Fuel	Natural gas or LPG			
Turndown ratio	1:3			
Primary burner control unit	Landis LFL 1.322 or LFL 1.622			
Gas leakage control unit	Landis LDU 11			
Ignition	Automatically, by high voltage spark			
Flame detector	UV or ionization system			
Electrical connection	3x400/230 V, 50 Hz+N+PE			
Electric. power consumption	9 kW			12,5 kW
Electrical protection	IP 40			
Burners with alternative – non standard – parameters can be manufactured by special request, after consulting				

Gas train sizes:

Gas pressure range symbols	101-150 mbar	151-200 mbar	201-350 mbar	351-500 mbar
	3	4	5	6
Natural gas firing burner gas train diameters for different connecting pressures				
SGB-350	DN 80	DN 2" BSP		
SGB-400	DN 80		DN 2" BSP	
SGB-450	DN 80		DN 2" BSP	
SGB-480	DN 80		DN 2" BSP	
LPG firing burner gas train diameters for different connecting pressures				
SGB-350	DN 2" BSP		DN 1 ½" BSP	
SGB-400	DN 80	DN 2" BSP	DN 1 ½" BSP	
SGB-450	DN 80	DN 2" BSP		DN 1 ½" BSP
SGB-480	DN 80	DN 2" BSP		DN 1 ½" BSP

Outline drawing and connecting dimensions:

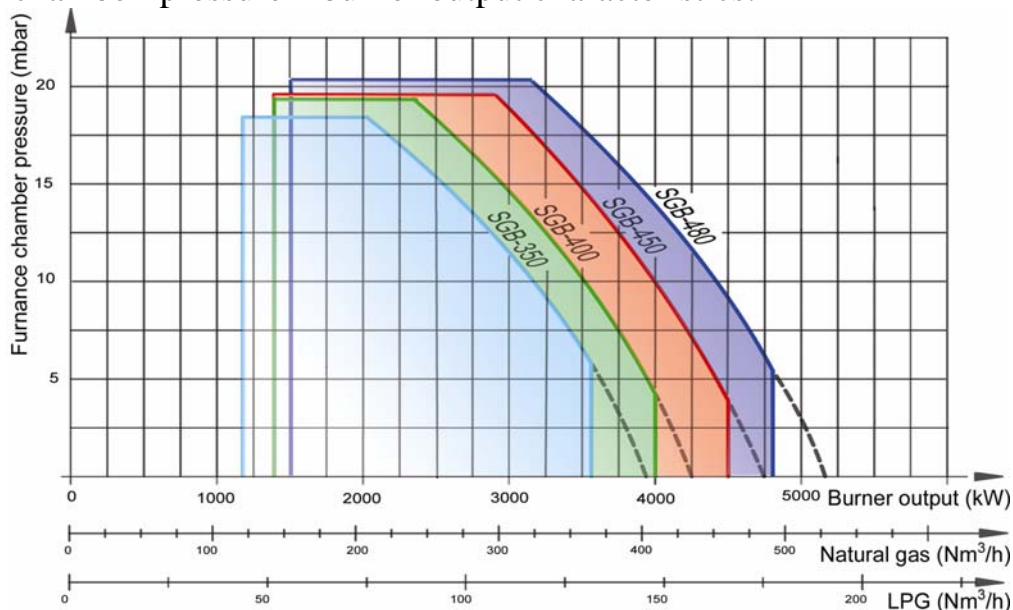


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Furnace chamber pressure – burner output characteristics:



Gas burner type symbols:

SGB-□□-G/□-□-□-□-□

Gas train equipped with:

- T Leakage control unit
- S Vent to the air valve¹⁾

Inlet gas pressure range figure:

- 2 41-100 mbar
- 3 101-150 mbar
- 4 151-200 mbar
- 5 201-350 mbar
- 6 351-500 mbar

Air-tube length figure:

- 1 Standard air-tube L=290 mm
- 2 Extended air-tube L_{max}=500 mm²⁾

Mode of output control:

- L HIGH/LOW with slow load change
- M Modulating

Fuel:

- F Natural gas
- PB LPG

Type indication:

- SGB-350 1200-3500 kW
- SGB-400 1400-4000 kW
- SGB-450 1400-4500 kW
- SGB-480 1500-4800 kW

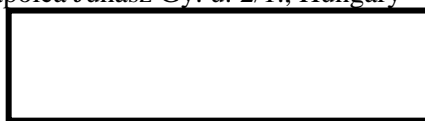
¹⁾ non standard version, only for special request

²⁾ ordering, air-tube length has to be consulted



Regional Sales Office:

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Your regional dealer



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