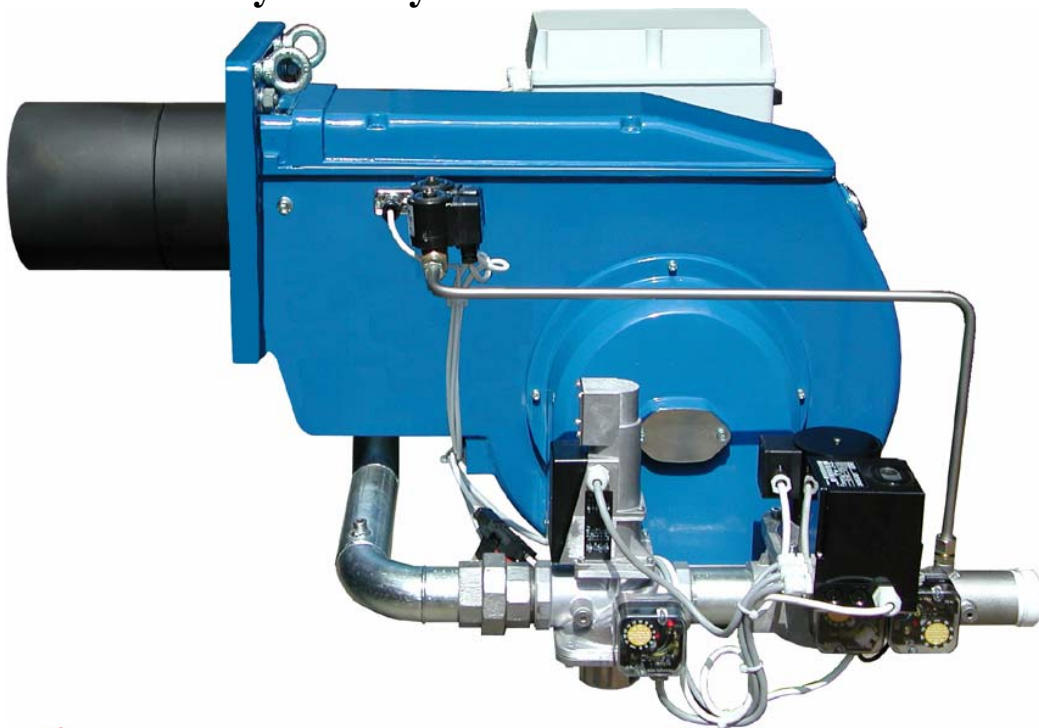


**SGB-120/140-F/PB-...**  
**AUTOMATICALLY CONTROLLED COMPACT GAS**  
**BURNERS**  
**500-1200/550-1400 kW**

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



**GB-GANZ**

**Tüzeléstechnikai Kft.**  
**HUNGARY**

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Internet: [www.gb-ganz.hu](http://www.gb-ganz.hu) E-mail: [gbganz@gb-ganz.hu](mailto:gbganz@gb-ganz.hu)

## General information:

Having developed the SGB type 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 the excellent-quality safety-, and control devices results in low maintenance cost. Depending on the user's requirements, burners can have the following output control systems: HIGH/LOW with fast or 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 boiler 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

## Main technical datas:

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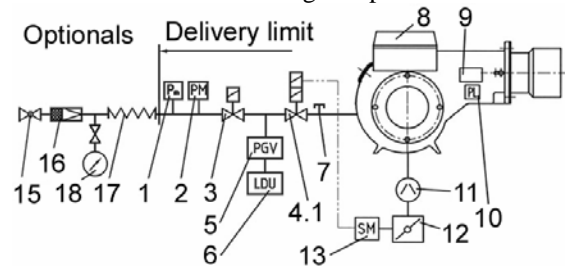
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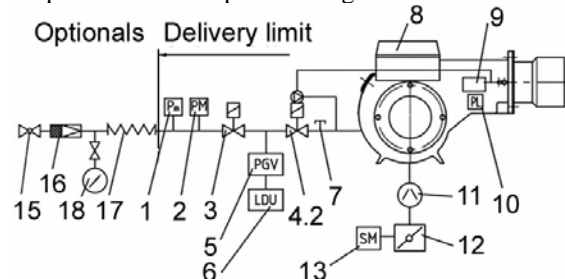
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## Gas train configurations:

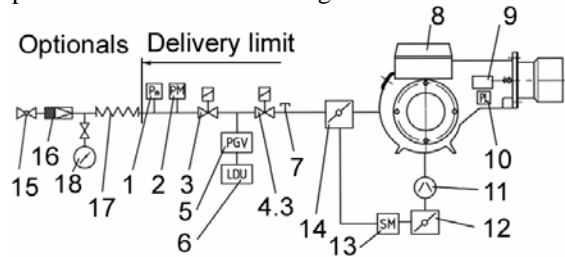
HIGH/LOW fast load change output control:



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 Two-stage main gas valve
- 4.2 Main gas valve with gas/air ratio control
- 4.3 Main gas valve
5. Gas pressure switch for gas leakage control
6. Gas leakage control unit
7. Gauge pin
8. Control box with primary burner control
9. Ignition transformer
10. Air pressure switch
11. Air blower
12. Air damper
13. Air damper motor
14. Gas damper

### Optionals for special request:

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

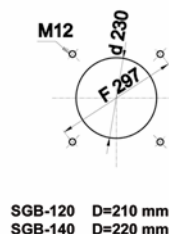
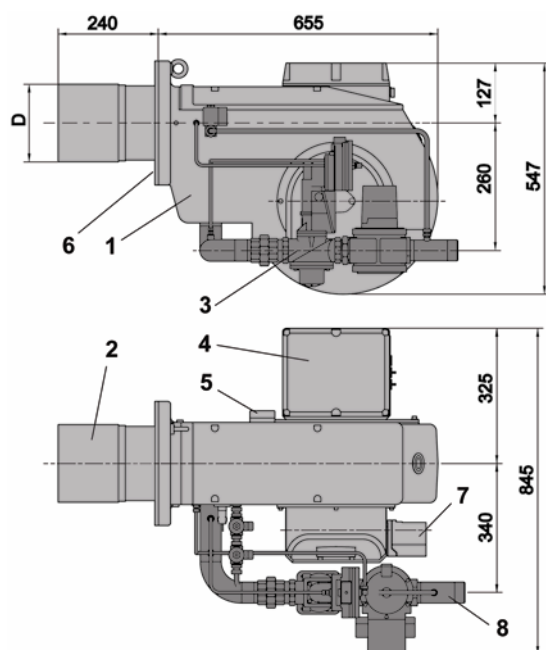
Type	SGB-120	SGB-140
Output range	500-1200 kW	550-1400 kW
Fuel	Natural gas or LPG	
Ignition	Automatically, by high voltage spark	
Turndown ratio	1:2	
Primary burner control unit	Landis LFL 1.322 or LFL 1.622	
Gas leakage control unit	Landis LDU 11	
Flame detector	UV or ionization system	
Electrical connection	3x400/230 V, 50 Hz+N+PE	
Electrical power consumption	2,1 kW	2,1 kW
Electrical protection	IP 40	
Weight <sup>1)</sup>	85 kg	85 kg
<sup>1)</sup> without gas-train		

### Gas train sizes:

Gas pressure range symbols	31-40 mbar	41-100 mbar	101-150 mbar	151-200 mbar	201-500 mbar
	1	2	3	4	5
<b>Natural gas firing burner gas train diameters for different connecting pressures:</b>					
<b>SGB-120</b>	DN 80 <sup>2)</sup>	DN 2" BSP	DN 1 ½" BSP		
<b>SGB-140</b>	DN 80 <sup>2)</sup>	DN 2" BSP	DN 1 ½" BSP		
<b>LPG firing burner gas train dimensions for different connecting pressures</b>					
<b>SGB-120</b>	DN 2" BSP		DN 1 ½" BSP		DN 1" BSP
<b>SGB-140</b>	DN 2" BSP		DN 1 ½" BSP		DN 1" BSP

<sup>2)</sup> non standard version, only for special request

### Outline drawing and connecting dimensions:



SGB-120 D=210 mm  
SGB-140 D=220 mm

1. Burner house
2. Air-tube
3. Gas train
4. Control box
5. Air pressure switch
6. Fixing screw
7. Air damper motor
8. Gas inlet

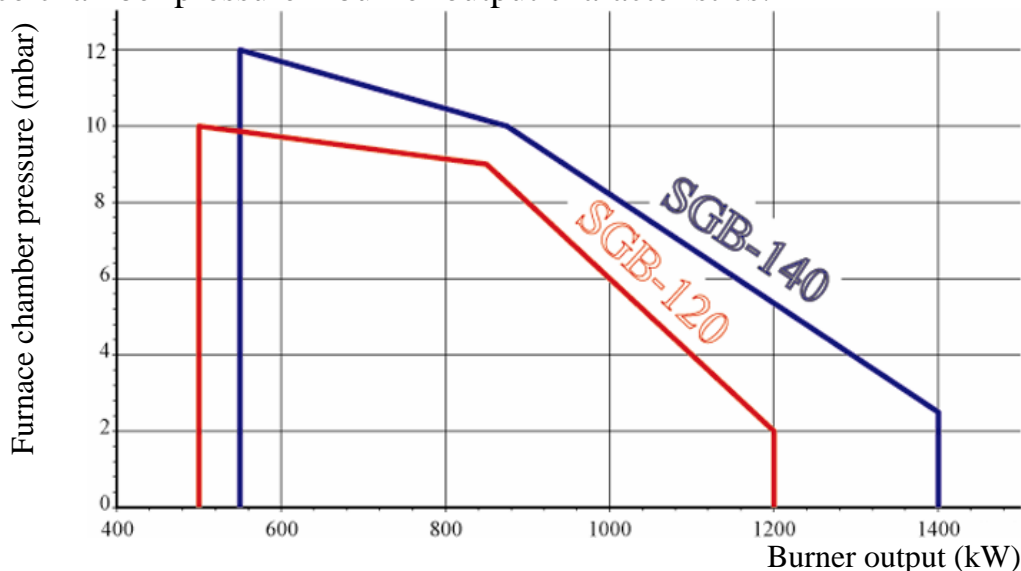
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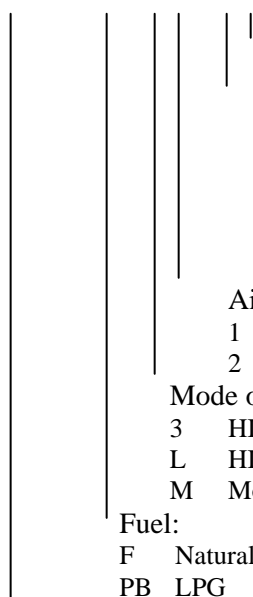
Internet: www.gb-ganz.hu E-mail: gb-ganz@gb-ganz.hu

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 valve<sup>3)</sup>

Inlet gas pressure range fig.:

- 1 31-40 mbar
- 2 41-100 mbar
- 3 101-150 mbar
- 4 151-200 mbar
- 5 201-350 mbar

Air-tube length figure:

- 1 Standard air-tube
- 2 Extended air-tube

Mode of output control:

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

Fuel:

- F Natural gas
- PB LPG

Type indication:

- SGB-120 500-1200 kW
- SGB-140 550-1400 kW

<sup>3)</sup> non standard version, only for special request



**Regional Sales Office:**

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Your regional dealer:



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