

SG R.....

**General Information**

The "SG R..." gas burner series thanks to their light and handy structure combined with reduced overall dimensions are ideal for all the installations requiring a compact and silent combustion group with high turn-down ratio.

The burner structure is in carbon steel; parts in contact with the flame are in refractory steel and in Nickel Chrome alloys.

Externally to the burner, with orientation to define according to the installation needs, are located the gas ramp, the combustion air blower and the automatic burner control unit.

Max. Thermal power is 930 kW (800.000 kcal/h) and min. thermal power is 5 kW (4.300 kcal/h).

The completely automatic operation allows different regulation controls such as on-off, high-low flame, modulating on gas or modulating on ratio. These last control systems allow reaching turn-down ratio of 50:1 with neutral combustion chamber.

The burner can be supplied in the following versions:

- Internal duct
- External duct

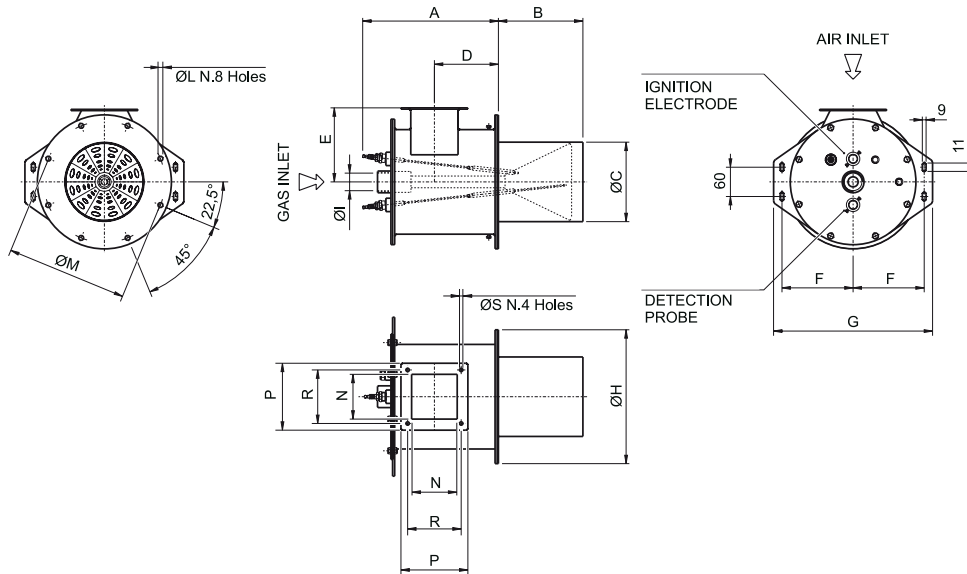
**Features**

- Direct spark ignition, ionization flame detection electrode.
- For Natural gas and LPG, other gaseous fuel on request.
- Turn down ratio 50 to 1.
- Single phase or 3 phase motor, 50/60 Hz.
- Available as packaged execution, with gas ramp according to EN 746-2 (or other required), on right or left hand.
- Easy to install, to start, to operate.

**Applications**

- Ceramic, Bricks, Refractory:
  - Roller dryers, Tunnel dryers, Continuous and Intermittent dryers.
- Textile: Stenters, Dryers, Polymerisers, Printings Dryers.
- Surfaces Treatment: Painting Dryers and kilns.
- Paper: Air Heaters, for Hood and Dryers.
- Converting:
  - Air Heaters for Rotogravures, Flexographic and Coupling and Adhesive coating machines.
- Food: Cereal Dryers, Roasters.
- Drying Tobacco.

**Overall dimensions (mm)**



Mod.	A	B	ØC	D	E	F	G	ØH	ØI	ØL	ØM	N	P	R	ØS
SG R 7.5	270	210	110	140	120	120	270	220	3/4"	9,5	195	66	105	85	7
SG R 15	270	205	145	145	150	140	310	250	1"	9,5	225	66	105	85	7
SG R 30	320	205	190	150	180	170	380	320	1"1/2	11,5	290	114	160	128	9
SG R 45	370	215	220	200	220	195	430	370	1"1/2	11,5	340	140	190	165	10
SG R 60	370	215	220	200	220	195	430	370	1"1/2	11,5	340	140	190	165	10
SG R 80	370	215	220	200	220	195	430	370	1"1/2	11,5	340	140	190	165	10

**Technical data**

Mod.	SG R 7.5	SG R 15	SG R 30	SG R 45	SG R 60	SG R 80
Output Min.	5 kW	4 kW	4 kW	18 kW	18 kW	18 kW
Output Max.	87 kW	180 kW	360 kW	525 kW	700 kW	930 kW
Fuel	CH4 / LPG					
Turn down ratio	18 : 1	45 : 1	90 : 1	30 : 1	40 : 1	50 : 1
Operation	<i>Modulant gas only</i>					
Max. excess of air	50% a 87 kW	50% a 180 kW	50% a 360 kW	50% a 525 kW	50% a 700 kW	50% a 930 kW
Flame diameter	160 mm	200 mm	250 mm	300 mm	350 mm	350 mm
Flame length	600 mm	700 mm	600 mm	1000 mm	1000 mm	1000 mm
Gas supply pressure	30 mbar	10 mbar	36 mbar	20 mbar	35 mbar	35 mbar
Air supply pressure	10 mbar	5 mbar	12 mbar	10 mbar	17 mbar	17 mbar
Weight	22 kg	38 kg	45 kg	48 kg	48 kg	52 kg

The above mentioned performance data are described at their maximum power. Pressure showed are guidelines only. Gas pressures are refer to **Methane** and **LPG**.

Stoichiometric conditions

Special executions on request.

Performance data and dimensions are guidelines only.

Subject to modifications