

SP Burner

The SP series of gas burners are pre-packaged, fan assisted units designed to fire applications where fresh air is to be heated from ambient temperatures up to plant requirements; typical applications include industrial spray booths and drying rooms.

The SP can be fitted into air ducts having air velocities of 5-30m/sec. The SP burners consist of an 'in-line PH' type combustion head mounted on a side plate so as to fire parallel to the side plate in direction of air flow. The units are available in two output capacities; the standard RSP is 300 kW per 300mm and the RSP-HC is 600 kW per 300mm. The heads are available in 'straight', 'T' and 'X' sections which enable the burner to be constructed to suit the appliance layout.

For the SP burner the air required for combustion is supplied by an integral combustion air fan mounted on the burner head and situated inside the process air duct. Air temperatures up to 40°C can be accepted upstream of the burner. Downstream temperatures of up to 450°C can be accommodated. The SP-O open back burner does not have a combustion air fan and utilises the process air for combustion.

The burner systems produce a wide flame spread and short flame; this feature means the burner is ideal for applications where chamber length is restricted and even heat distribution is required. The SP burner is simple and safe to operate. All burners are pre-fired and fully tested before leaving our works.

Typical Applications

- Air Replacement Plants
- Industrial Spray Booths
- Air Handling Plants
- Industrial Dryers
- Ceramic Dryers
- Drying Rooms

Duties

The SP burner is available in modules starting at 150KW for a 150mm long section. These sections can be combined to allow burner units in excess of 20MW to be constructed.

Gas Supply Pressure

Typically 20mbar.
Higher inlet gas pressure can be accommodated.

Typical Flame Length

At maximum duty = 600mm

Fuels


Suitable for operation on Natural gas, LPG and most low calorific value gases.

Turndown

Up to 40:1

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