



## RSP Burner

The RSP series of gas burners are pre-packaged, fan assisted units designed to suit virtually all types of gas fired applications where recirculated air is utilised; typical applications include the firing of industrial ovens and dryers. The RSP can be fitted into process air ducts having air velocities of 5 to 30m/sec. The burners can be installed in a process plant recirculation system where it is not possible to construct a combustion chamber and install a conventional type of burner assembly.

The RSP 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 the 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.

All the air required for combustion is supplied by a combustion air fan mounted on the outside of the side plate - air is passed to the burner head via an integral air duct. Process air temperatures up to 300°C can be accepted upstream of the burner. Downstream temperatures should be limited to 450°C. The burner system produces a wide flame spread and short flame; this feature makes the burner ideal for applications where chamber length is restricted.

The RSP burner is simple and safe to operate. All burners are pre-fired and fully tested before leaving our works.

### Typical Applications

- Industrial Dryers
- Industrial Ovens
- Ceramic Dryers

### Duties

The RSP burner is available in a wide range of sizes and shapes, ranging from 150KW to more than 20MW.

### Gas Supply Pressure

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

### Typical Flame Length

At maximum duty = 600mm

### Duct Pressure Drop

Typically 200 pascals.

### Fuels

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

### Turndown

Up to 40:1



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