

# COMPLETE HEAT

## PC BURNER:

The PC series of gas burners are pre-packaged fan-assisted units designed to suit virtually all types of low-temperature gas fired applications. Typical applications include box ovens, industrial dryers and air heaters. The PC burners are widely used by many major plant manufacturers. PC burners are designed to allow the plant designer complete flexibility in whatever the application. They can also be adapted for special physical arrangements.

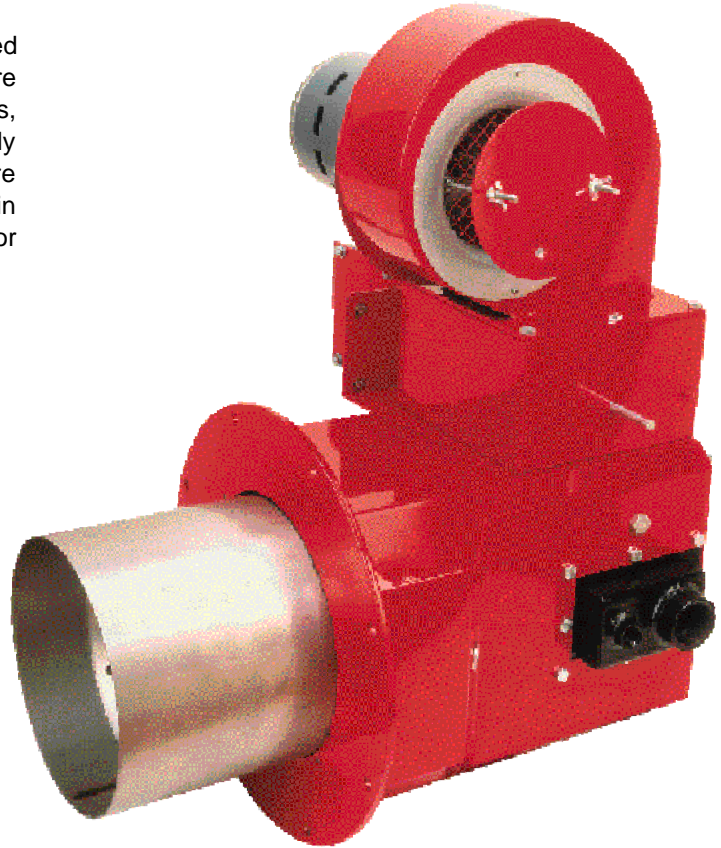
## COMPLETE PREPACKAGED BURNERS:

### *Each burner unit is supplied with:*

- A packaged and pre-piped FM or IRI gas safety valve train assembly.
- Integral combustion air fan.
- Complete gas valve assembly consisting of pilot/start valve assembly, ratio controls and governors.
- Complete pre-wired flame failure and automatic ignition controls.
- Electrical components pre-wired to a terminal enclosure. (Special mounting, valve arrangements and additional controls available upon request.)
- Ease of maintenance and installation a top priority.
- Nozzle and combustion tube can be removed without unbolting the burner off the mounting flange.
- An access panel on the burner casing allows easy access to the gas nozzle, spark plug and flame sensor.
- Full air-gas modulation, gas-only modulation, high-low or on-off controls as required.

### *Applications Include:*

Air heaters	Coffee roasters
Textile machines	Fume incineration
Food processing	Heat treat draw ovens
Baking ovens	Plastics
Finishing and coating lines	Paper/pulp processes



## SPECIAL APPLICATIONS:

As well as the standard range of PC burners, burners can be tailored to meet specific customer requirements such as extended combustion tubes and continuous running burner fan applications. PC burners can be supplied without combustion air fans or pre-packaged controls for use with preheated combustion air and for applications involving the use of a single-air fan for multiple burners.

## GAS SUPPLY:

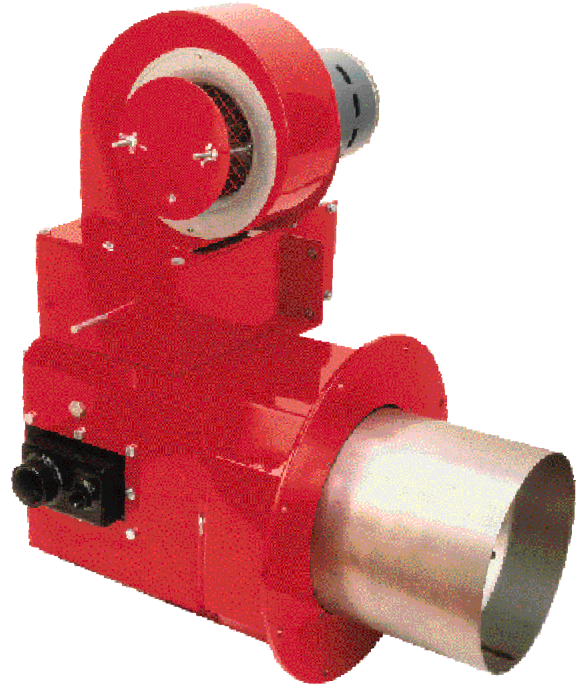
PC series burners can be supplied for operation on natural or LP gases and are available in 10 basic sizes, ranging from nominal thermal capacities of 250,000 Btu/hr to 7,500,000 Btu/hr. All valve assemblies on the burners are sized to suit an inlet gas pressure of 7" WC (natural gas) or 12" WC (LP gases). Burners can be supplied to suit other gas types and supply pressures.

## GAS NOZZLE DESIGN:

The nozzle mix design of the burner features a staged combustion method of air-gas mixing. This ensures that the burners can operate with high turndown capability. Turndown ratios of 40:1 are possible depending upon burner applications and selection.

## TYPES OF CONTROL AVAILABLE:

The PC series is available with a variety of air-fuel ratio controls. Full air-gas modulation, gas-only modulation, high-low and on-off may be used depending upon the application and burner model selected.



## GAS SAFETY VALVE TRAINS:

A FM or IRI gas safety valve train can be supplied with the burner. The valve trains are complete with blocking valves, proof of closure as required, vent valve if required, and high and low gas pressure switches. The valve trains are pre-piped and all components are pre-wired to the standard terminal enclosure mounted on the burner.

## INSTALLATION AND START UP:

The PC package burners are test fired prior to shipment. The burners are designed for ease of installation and maintenance and are supplied with complete installation, operating and maintenance manuals. Parts and service are available worldwide through Pyronics' international sales force.

