

The Comtherm 'PH' and 'PHC' series of gas burners are designed to fire applications where fresh or recirculated air is to be heated up to plant requirements. The burners can be installed in air systems where it is not possible to construct a combustion chamber and install a conventional type of burner assembly. The burners consist of a flange mounted 'in-line' combustion head. All the air required for combustion can be supplied by an integral combustion air fan mounted on the burner head or provided that the process air has sufficient oxygen by developing sufficient pressure drop through profile plates on an "open back" design. Each burner unit can be supplied with a packaged and pre-piped valve assembly, and ductwork, including all the safety controls necessary to form a fully pre-packaged combustion module.

Typical applications;

Industrial Dryers

Preheaters

Industrial Spray Booths

Direct Fired ARP and AHU

Drying and Curing Rooms

Duties

The PH and PHC burner is modular with each 300mm section rated at 300kW whilst the PHC is rated at 600 kW per 300mm section. The burners are available in 'straight', 'T' and 'X' sections which enable the burner to be constructed to suit the appliance layout and in theory limitless in maximum output.

Turndown

Up to 40:1

Typical Flame Lengths at Maximum Duty

600mm

Gas Pressure

All valve assemblies on the burners are sized to suit an inlet gas pressure of 17.5 mbar (natural gas) or 30mbar (LP gases) unless otherwise specified. Burners can be supplied to suit other gas types and supply pressures.

Air Pressure Drop

PH - 200 Pascals

PHC - 300 Pascals