

AIR DRAUGHT DUCT GAS BURNERS

JDC-20

JDC-50

| GENERAL INFORMATIONS |

The "JDC" gas burner represents a new concept of direct heating air for industrial process optimizing mixing velocity of warm gases produced by combustion, with process air. They are properly classified as "head mixing burner". For their suitable working, they need low pressure of air and gas. "Linear" and "cross" models are available; these models, correctly assembled, may represent a never ending variety of adaptable conformation to every conduct shape (size) and every application required. The basis unit include housing burner with ignition probe, pilot burner and integrated ionization electrode, or UV detection cell.

Combustion air may be supplied directly from the process or from a blower (depending of installation type). In case that air of combustion is supplied by the process, the burner is called "OPEN-BACK". Process air must have a minimum oxygen tenor of 17% with a flow speed of 20m/s; the pressure drop in this application if 2.5 mbar. If combustion air is supplied by a blower, burner module will be equipped with a connection flange; in this case low oxygen tenor won't prevent burner to have a good combustion.



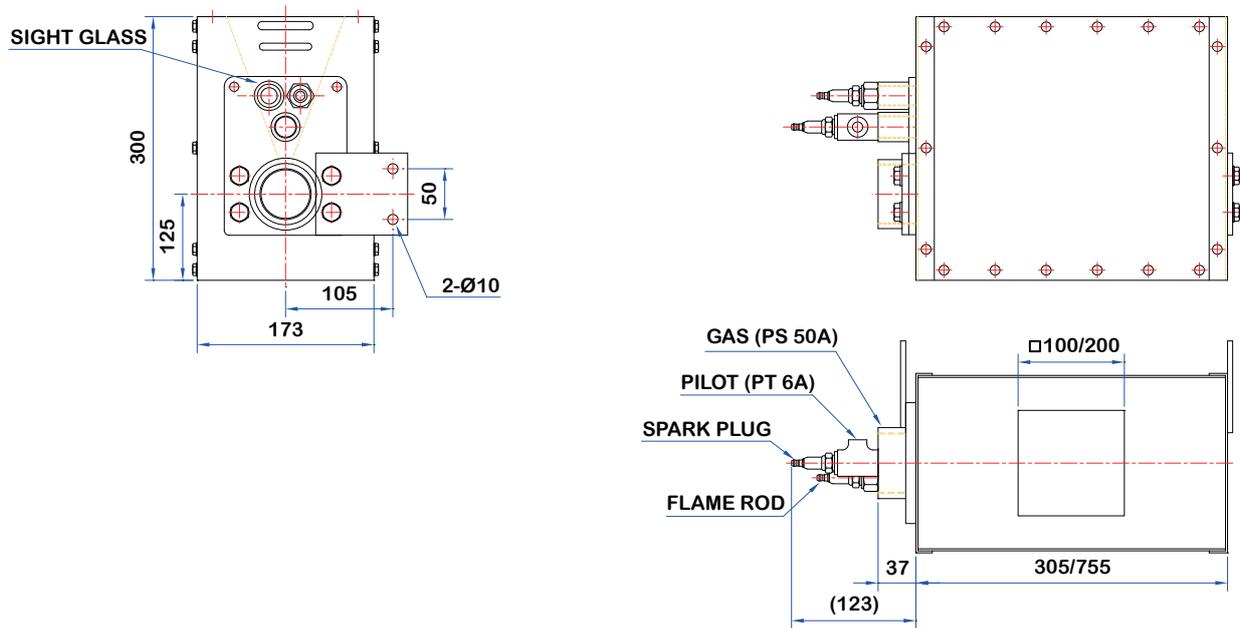
FEATURES

- Main module direct electrical ignition thanks to electrode or indirect thanks to a pilot incorporated in burner structure.
- Flame detection with ionization electrode or U.V. cell.
- Standard executions for Methane gas and LPG, other gaseous fuel on request.

APPLICATIONS

- All types of application in which a large exchange surface between combustion gas and process air is required, and it's necessary a fast and uniform mixing.
- Ceramic, Bricks, Refractory: Intermittent and continuous dryers.
- Surfaces treatment: Painting kilns, enameling kilns and dryers.
- Printing and Packing: Air Heaters for Rotogravures, Flexographic and Coupling and adhesive coating Machines.
- Food: Cereal, fodder and tobacco dryers, roasters.

| DIMENSIONS |



| TECHNICAL DATA |

MODEL	JDC-20	JDC-50
OUTPUT MAX. (REFER TO 152 mm)	233 kW (200,000 kcal/h)	582 kW (500,000 kcal/h)
MAX.-MIN. RATIO	10 : 1	10 : 1
FUEL	Natural Gas/L.P.G.	Natural Gas/L.P.G.
BURNER MATERIAL	Ni-Cr Alloy	Ni-Cr Alloy
GAS SUPPLY PRESSURE	30 mbar	30 mbar
AIR SUPPLY PRESSURE	10 mbar	10 mbar
MIN. COMBUSTION AIR EXCESS	30%	30%
LOAD LOSS *	2.5 mbar	2.5 mbar
TOTAL BURNER WEIGHT	11 kg	22.5 kg

The above mentioned performance data are described at their maximum power.
 Pressure showed are guidelines only.
 Gas pressures are refer to Natural gas.

* The load loss onto burner depend to the process air speed. The load loss indicated are refered to a speed of 10m/s.

Performance data and dimensions are guidelines only.

The descriptions and specifications are subject to change without notice.