



GTS CONTROLS & ENERGY SYSTEMS PVT. LTD.

Combustion Solutions.
Built for Performance.

RADIANT TUBE BURNER

RTB SERIES



ENGINEERED FOR EFFICIENT INDUSTRIAL HEATING
RTB series radiant tube burners are nozzle-mix gas burners designed for indirect heating in U or W type radiant tubes. The fuel gas and combustion air are mixed at the combustion head to prevent flashback and ensure stable combustion. Suitable for operation with or without plug-in recuperator.



KEY FEATURES

- ✓ Capacity Range: 30 kW to 300 kW*
- ✓ Fuel: LPG / Propane / Natural Gas / Syn. Gas/Coal Gas/Other Low Calorific Gases
- ✓ Max. Air & Gas Pressure at Inlet: 45 mbar
- ✓ Controls: ON/OFF, Pulse Firing, Mass Flow
- ✓ Max. Preheated Air Temperature: 450°C
- ✓ Low pollutant emission
- ✓ High Flow Turn down range: 1:6
- ✓ Excellent flame stability
- ✓ Ignition: Direct Spark Ignition / Pilot Burner
- ✓ Flame Detection: Flame Electrode / Unirod Electrode / UV Sensor

** Recommended controls for Radiant tube burners are ON/OFF



HIGH HEAT
PENETRATION



EXCELLENT
FLAME STABILITY



LOW POLLUTANT
EMISSION



WIDE TURN
DOWN RANGE



APPLICATIONS

- CGL Furnaces
- Continuous Annealing Furnaces
- Wire Annealing & Lead Bath Furnaces
- Homogenizing Furnaces
- Tunnel Ovens and Furnaces
- All Types of Heat Treatment Furnaces



PRODUCT DESCRIPTION

The RTB series burners are gas burners with outer heat resistant burner tube used for indirect heating inside the radiant tube for transfer of heat to the process. RTB burners are "Nozzle Mix" type burners with separate mixing of fuel and air at the combustion head.
RTB burner can be used for Natural gas, LPG combustion (in the standard version), and any other types of gaseous combustible gases with different heating properties (special versions are optional and available on request).



BURNER PARAMETERS (NATURAL GAS)*

Model	Maximum Burner Capacity (kW)	Flame Length (mm)	Combustion Air Flow (Nm³/hr)	Gas Flow (Nm³/hr)	Combustion Air Pressure @Inlet (mbar)
RTB-30	30	200 - 300	33	3	45
RTB-70	70	300 - 500	88	8	45
RTB-150	150	500 - 700	165	15	45
RTB-200	200	700 - 1000	220	20	45
RTB-300	300	1000 - 1200	330	30	45

*Based on Natural Gas with Calorific Value of 8600 Kcal/Nm³, operating in stoichiometric ratio at nominal capacity. Results may differ depending on actual site & operating conditions.



MECHANICAL CONSTRUCTION

- Burner Body* : Cast Iron
- Gas Adjuster (Tuning Valve) : Cast Iron
- Burner Flame Tube : SS 304/ SS 310
- Diffuser & Combustion Head : SS 310
- Mounting Flange : Carbon Steel
- Orifice / Orifice Plate : Carbon Steel / SS304
- Peep Sights : Brass

*Other options available

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