



GTS CONTROLS & ENERGY SYSTEMS PVT. LTD.

Combustion Solutions.
Built for Performance.

METALLIC TUBE BURNER

MTB SERIES

ENGINEERED FOR EFFICIENT INDUSTRIAL HEATING

MTB Series Metallic Tube Burners are nozzle-mix gas burners designed for direct heating applications. The burner produces an intense and stable flame, ensuring high heat penetration, excellent temperature uniformity, and reliable combustion performance. Suitable for Natural Gas, LPG, Propane, Syngas, Coal Gas and other low calorific gaseous fuels.

KEY FEATURES

- ✓ Capacity Range: 30 kW to 900 kW
- ✓ Fuel Options: Natural Gas / LPG/ Propane/Syngas / Coal Gas
- ✓ Air & Gas Pressure Requirement: 45 mbar
- ✓ Suitable for Preheated Air Applications upto 450°C
- ✓ Low pollutant emission
- ✓ High Flow Turn down range
- ✓ Excellent Temperature Uniformity
- ✓ Direct Spark Ignition or Pilot Burner
- ✓ Flame Detection by Flame Rod / UV Sensor
- ✓ Low Maintenance Design
- ✓ Controls**: ON/OFF, Modulation, Mass Flow

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



HIGH HEAT
PENETRATION



EXCELLENT
FLAME STABILITY



LOW
EMISSION



WIDE TURN
DOWN RANGE



APPLICATIONS

- Homogenizing Furnaces
- Heat Treatment Furnaces
- Textile Stenters & Dryers
- Hot Air Generators
- Ageing Ovens
- Low Temperature Food Ovens
- Tunnel or chariot furnaces.



PRODUCT DESCRIPTION

The burner produces an intense flame that allows high heat penetration and better temperature uniformity inside the combustion chamber. The MTB Series burners utilize a nozzle-mix combustion principle where fuel gas and combustion air are mixed at the combustion head. The metallic flame tube design enables efficient direct heating with excellent heat transfer and long service life. Suitable for continuous industrial operation.



BURNER PARAMETERS (NATURAL GAS)*

Model	Maximum Burner Capacity (kW)	Flame Length (mm)	Air Flow (Nm ³ /hr)	Gas Flow (Nm ³ /hr)	Combustion Air Pressure @Burner Inlet (mbar)
MTB-30	30	200-400	33	3	45
MTB-80	80	400-700	88	8	45
MTB-150	150	600-1000	165	15	45
MTB-300	300	900-1200	330	30	45
MTB-400	400	1100-1500	440	40	45
MTB-600	600	1500-1800	660	60	45
MTB-900	900	1600-2400	990	90	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
- Burn Flame Tube : AISI 304 / AISI 310
- Diffuser & CombustionHead : SS310
- Mounting Flange : Cast Iron
- Orifice Plate : Carbon steel/SS304
- Peep Sight : Brass
- Max Usable Temperature : 1000°C

*other options available

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