



GTS CONTROLS & ENERGY SYSTEMS PVT. LTD.

Combustion Solutions.
Built for Performance.

FLAT FLAME BURNER

FFB SERIES

ENGINEERED FOR EFFICIENT INDUSTRIAL HEATING

GTS FFB Series Flat Flame Burners are designed to produce a broad, uniform flat flame pattern for optimum heat distribution in industrial furnaces. The flame impinges radially on the furnace walls, minimizing hot spots and thermal stress while ensuring high heat transfer efficiency.



KEY FEATURES

- ✓ Capacity Range: 100 kW to 1400 kW
- ✓ Fuel Options: Natural Gas / LPG/ Propane/Syngas / Coal Gas
- ✓ Broad flat flame pattern for uniform heating.
- ✓ High radiant heat transfer
- ✓ High Temperature Operation up to 1400°C Furnace Temperature
- ✓ Wide turndown ratio up to 1:8
- ✓ Excellent flame supervision and operational safety
- ✓ Reliable pilot ignition and UV flame monitoring
- ✓ Long-life refractory block for extended service life
- ✓ Suitable for preheated combustion upto 450 °C
- ✓ Low maintenance and durable construction

* Higher Capacity Range Available on request



UNIFORM
HEATING



HIGH
EFFICIENCY



LOW
EMISSION



WIDE TURN
DOWN RANGE



APPLICATIONS

- Melting basins in reverb
- Annealing Furnaces
- Aluminum melting and holding furnaces
- Zinc melting furnaces.
- Bell Furnaces
- Pit furnaces.
- Billet heating furnaces



PRODUCT DESCRIPTION

GTS flat flame burners are designed to deliver optimal combustion performance with a broad, even flame that minimizes hot-spotting and allows for higher furnace loadings. The flat flame pattern ensures uniform heat distribution, reducing thermal stress on the furnace and promoting efficient energy use.

With a reliable pilot system for consistent light-off and minimal shutdowns, these burners provide stable operation.



BURNER PARAMETERS (NATURAL GAS)*

Model	Maximum Burner Capacity (kW)	Air Flow (nm ³ /hr)	Gas Flow (nm ³ /hr)	Combustion Air Pressure
FFB-100	100	110	10	70 mbar
FFB-200	200	220	20	70 mbar
FFB-300	300	330	30	70 mbar
FFB-350	350	385	35	70 mbar
FFB-700	700	770	70	70 mbar
FFB-1400	1400	1540	140	70 mbar

*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(Tuningvalve) : Cast Iron
- Burner Block : High Alumina Refractory
- Gas Nozzle Assembly : SS304
- Mounting Flange : Cast Iron
- Orifice Plate : Carbon Steel/SS304
- Peep Sight : Brass
- Max Usable Temperature: 1400°C

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