



GTS CONTROLS & ENERGY SYSTEMS PVT. LTD.

Combustion Solutions.
Built for Performance.

HIGH VELOCITY BURNER

HVB-SIC SERIES

ENGINEERED FOR EFFICIENT INDUSTRIAL HEATING

Engineered for intense heat penetration and superior temperature uniformity. Built for efficiency. Designed for reliability. Delivers stable combustion performance with precise flame control for demanding industrial heating applications.

KEY FEATURES

- ✓ Capacity Range: 30 kW to 1000 kW*
Fuel: LPG / Propane / Natural Gas /
- ✓ Syn.Gas/CoalGas/OtherLowCalorific 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

* Higher Capacity Range Available on request



HIGH HEAT
PENETRATION



EXCELLENT
FLAME STABILITY



LOW POLLUTANT
EMISSION



WIDE TURN
DOWN RANGE



APPLICATIONS

- Bogie & Car Bottom Furnaces
- CGL Furnaces
- Ceramic Kilns & Furnaces
- Homogenizing Furnaces
- Continuous & Bell Annealing Furnaces
- Wire Annealing & Lead Bath Furnaces
- All types of Heat Treatment Furnaces



PRODUCT DESCRIPTION

The HVB-SIC gas burners with Silicon Carbide nozzle are designed for direct heating applications. The unique shape of the silicon carbide burner tube produces an intense flame with high velocity, ensuring deep heat penetration and better temperature uniformity inside the combustion chamber.

HVB-SIC burners are "nozzle mix" type burners. Fuel gas and combustion air are mixed at the combustion head to prevent flashbacks. The special design allows for precise control of the air-to-fuel ratio in stoichiometric, oxidizing or reducing conditions.



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)
HVB30-SIC	30	200 - 400	33	3	45
HVB80-SIC	80	400 - 600	88	8	45
HVB150-SIC	150	600 - 900	165	15	45
HVB300-SIC	300	900 - 1200	330	30	45
HVB400-SIC	400	1200 - 1500	440	40	45
HVB600-SIC	600	1500 - 1800	660	60	45
HVB900-SIC	900	1800 - 2000	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
- Burner Flame Tube : Silicon Carbide Tube (Suitable for 1350°C)
- Diffuser & Combustion Head : SS 310
- Mounting Flange : Carbon Steel
- Orifice / Orifice Plate : Carbon Steel / SS304
- Peep Sights : Brass

*other options available

CONTACT US

Office No.1210, CENTRUM, Near Satkar Hotel,
Opp. Railadevi Lake, Wagle Industrial Estate,
MIDC, Thane (W) - 400 604, Maharashtra, India



+91 70390 60877
+91-22-25839230 / 31



info@gtscontrolsenergy.com



www.gtscontrolsenergy.com