

**TIGL - At the heart of the tea industry worldwide**



**T & I Global Ltd.**



**Vertical Steel Tube Heater**

**Blaze**

*Fuel saving zero-casting heater from TIGL*

T&I Global Limited (TIGL) presents BLAZE, the truly energy efficient special alloy vertical tube bank air heater, specifically designed for low firing costs and minimum maintenance. Indigenously developed, BLAZE is the only heater made of fully fabricated High Alloy Steel tube banks, refractory brick arches and combustion chambers, thus eliminating castings and improving thermal efficiency.



### Operating Principle

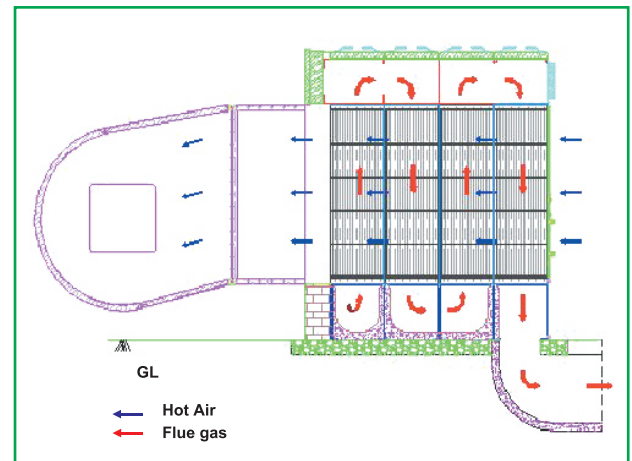
Flue gases drawn by an induced draught created over the grate by the ID fan and chimney, passes at critical velocities through a set of vertical tubes placed on either side of the grate, and this ensures optimum heat transfer in each pass. Ambient fresh air drawn from the back of the heater by the dryer fan absorbs heat from tube banks prior to its entry into the drying chamber.

### Salient Features & Advantages

- Optimum heat transfer due to the unique 'high temperature resistant' SS and alloy steel tube bank combination
- Improved tube bank design and optimum fuel combustion rates ensure at least 15-20% reduction in fuel consumption
- Vertical design ensures less scale/soot formation inside the tubes and enables easy cleaning
- Minimal recurring maintenance cost since all parts are fully fabricated with heavy duty steel
- Unique construction ensures easy and faster installation while reducing down time
- Temperature control Unit for maintaining uniform temperature to dryer
- Compact design for optimum floor space economy
- Suitable for all dryers (Conventional, VFBD, Combination)
- Truly multi fuel, can be operated with solid fuels like coal, leco, firewood, briquettes, bagasse, etc.
- No replacement of CI arches and other castings
- Four Pass and Five Pass versions available.



Temperature Control Unit



A typical four pass arrangement for flue gas

### Technical Details

MODEL	BLAZE 100	BLAZE 125	BLAZE 200	BLAZE 250
Grate Area	1.0 Sq. M	1.2 Sq. M	2.1 Sq. M	2.6 Sq. M
Coal burning capacity/hour	80-100 Kgs	120-160 Kgs	200-250 Kgs	260-310 Kgs
Heat generation capacity/ hour using Chain Grate Stoker	5.00 Lacs Kcal	7.00 Lacs Kcal	11.00 Lacs Kcal	13.00 lacs Kcal
Max. heat generation capacity/hour	6.00 Lacs Kcal	9.60 Lacs Kcal	15.00 Lacs Kcal	18.60 Lacs Kcal
Overall Dimensions (LxWxH)	5770x3930x2510	6270x3930x2510	7380x4530x2510	8010x4530x2510

Due to a continuous process of development the design and specifications are subject to change without notice

**The Blaze Heater is best used with TIGL's range of Driers :**  
*Everest, Tempest, Conquest & Questea*

**T & I Global Ltd.**

**Corporate Office:**

11, Jassal House, 4-A Auckland Square  
 Kolkata - 700 017 India

Ph : 91 33 22833613 / 14 / 30283626-29

Fax : 91 33 22833612 email : sales@tiglobal.com



**South India Office :**

18, SIDCO Industrial Estate, Kurichi  
 Coimbatore - 641 021 India

Ph : 91 422 2674814 / 15 Fax : 2673974

email : tk@tiglobal.com

**www.tiglobal.com**