

“Our goal is to create value”

Electrotherm, in conjunction with its customers, is developing sustainable solution that creates economic, ecological and social value for all participants. Our solutions are sustainable.

Integrated technological and environmental solutions have become key challenges for the iron and steel industries. Electrotherm's long term environmental strategy emphasizes process integration and minimized emission generation, as well as by product and waste management concept. In this way we can assure a low impact on the environment and economical operation.



“What we cannot create, we preserve it”



Advanced technologies for  
**AIR POLLUTION CONTROL**  
**Breathe Better**



**ELECTROTHERM<sup>®</sup> (INDIA) LIMITED**

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**ELECTROTHERM<sup>®</sup>**

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## “Catch it before it runs out”

Electrotherm delivers a wide range of state-of-the-art technologies providing total solutions to your steel plant / foundry requirement ensuring quality, reliability, performance and best after sales service. Our specially designed Air Pollution Control system ensures ongoing support throughout charging, poking & melting

### FUME CAPTURING HOODS ...

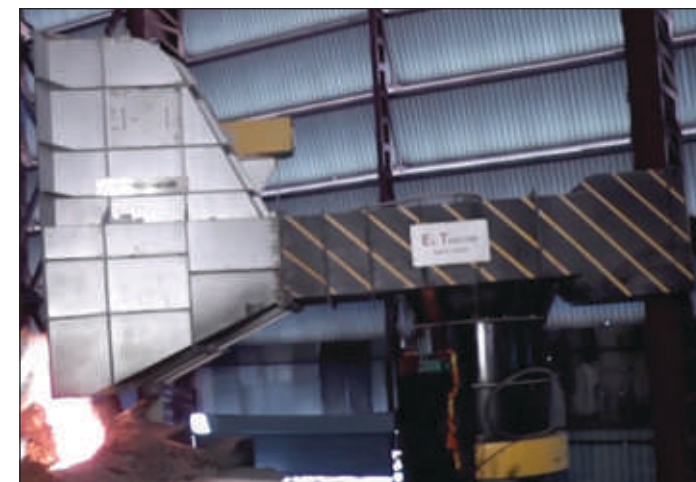
The success in pollution control on induction furnace lays in practical method of suction. We offer various of hoods depending on application:

- Dish Antenna type Fume Capturing Hood
- Double Action Fume Hood
- Canopy Hood
- Dog House, etc

### Dish Antenna type Fume Capturing Hood

#### Unique features

- This is the type of fume capturing hood which will capture at least 85% of the fumes, where conventional feeding methods and poking is used
- Common hood for two crucibles



### Double Action Fume Hood

- It can be tilted with the furnace for continuous fume suction
- Designed specially for back tilting type induction furnaces
- Can be used with regular induction furnaces
- Can be operated to suitable degree for processes



## “What we throw out, we clean it”

Depending upon the application, we have various filtering system. Ranging from 10 mg/Nm<sup>3</sup> to 150 mg/Nm<sup>3</sup>.

- Cassette Filter
- Bag Filter
- Venturi Scrubber

### Cassette Filter

- Modular design – for easy adaptability of cassette-type filters to specific floor space requirements
- Low operating and maintenance costs
- Due to the reverse air flow cleaning method, the filter bags have longer service life
- Minimal residual dust in cleaned air, well below permitted emission rates due to optimal efficiency of filter media in conjunction with reverse air flow cleaning system.
- Low energy consumption cost due to filters employing low pressure reverse air cleaning



### Bag Filter

- Bag filter are made with high collection efficiency. It is normal to get 50 mg/Nm<sup>3</sup> emission.
- Designed for low pressure drop hence low operating cost
- Most user friendly, simple to maintain and easy to operate.

### Venturi Scrubbers

- It can handle any type of furnace fumes from any scrap quality
- Both particle collection and absorption of gases, vapors, etc. can be done at the same time
- These high efficiencies are achieved at a low pressure drop
- Lowest power consumption against comparable methods



Science is the knowledge that awakes revolution in all beings. Technology is an idea that brings revolution in product.

The leading manufacturer of Induction Furnace, Electrotherm has come up with the solution for minimum dust emission in terms of integrated technology that will not only enhance the power saving but will also save environment.