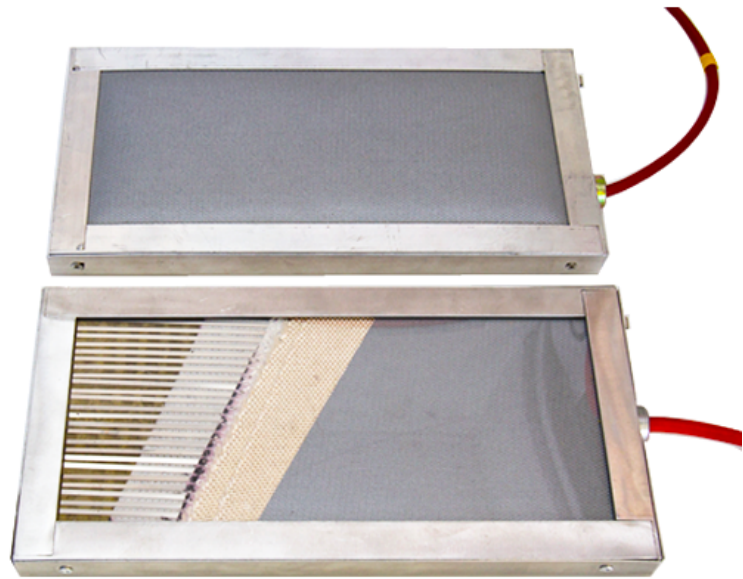


Hopper Heating Modules

ISOTHERM Hopper Heating Modules are used for temperature maintenance applications of Flyash hoppers on Electrostatic Precipitators, Bag-houses, Fabric Filters and other forms of dust collectors.

The product and system are specifically designed to maintain elevated temperatures within Flyash collection hoppers on Electrostatic Precipitators, Bag-houses, Fabric Filters and other forms of dust collectors.

Isotherm's Hopper Heating Modules are custom designed to provide low watt density, uniform heating over the lower areas of the hopper. Thermal sizing is based upon maintaining a temperature above the dew point of the incoming flue gases such that condensation cannot occur. The elimination of condensation ensures that the Flyash (or dust) being collected will remain in a dry, free-flowing condition such that the hoppers do not plug.



Features:

- Custom Sizing: Isotherm's Hopper Heating Modules are custom sized to fit each individual area of the hopper being heated. Standard size heating modules leave cold spots on the inner surface of the hopper resulting in random areas of condensation, Flyash build up and potential hopper pluggage.
- Parallel Circuitry: The majority of modules within the system will be designed as single phase heaters for direct connection in parallel with the 3 phase power supply. In this type of system design, damage to one heater only results in the loss of one heater. Competitive style systems use several heating modules that are connected in a series chain. In a series connected system, damage to just one heater results in the loss of all of the heaters connected in the series chain.
- Custom Cold Lead Lengths: Each Hopper Heating Module is supplied with a custom length of cold lead cable that will reach directly to the hopper heater junction box. Standard length cold leads require the use of splices which can result in overheating and burnout problems.

Benefits:

- Specifically designed for safe, reliable operation on Flyash and dust collection hoppers.
- Low watt density, high efficiency, flexible faced heating system.
- Custom sized heaters to provide uniform heating in the lower areas of the hopper.
- Quick, simple, low cost installation.

Mechanical Construction:

- Mounting Pan: 22 Gauge Aluminum.
- Module Frame: 3/4th by 3/4th inch aluminum angle.
- Mounting Channels: 1 by 2" aluminum channel .



Electrical Construction:

- Heating Element: NiCr 8020
- Circuit Connection: Stainless steel bridge pieces continuous spot welded with triple welding passes
- Internal Dielectric Construction: Five individual layers of high temperature woven glass cloth
- External Dielectric Construction: One layer of woven glass cloth with impregnated silicone rubber moisture barrier
- Cold Lead Conductors: Two 16 AWG, stranded, nickel coated copper conductors with 1100 vac rated and ptfе insulation
- Cold Lead Jacket: PTFE Insulation

Electrical Construction:

- Temperature Range: -40°F to 850°F (-40 to 454°C)
- Voltage Range: Up to 600 VAC
- Power Density: Up to 2.5 w/sq.in (360 w/ft²/3875 w/m²)

Physical Features:

- Custom Sizing: From 4 by 10 inches up to 24 by 72 inches
- Weight: Approximately 1.1 kgs/ft²

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