hotfoil EHS
INDUSTRIAL HEATING

BAGHOUSE AND PRECIPITATOR HEATING SYSTEMS

FM Approvals

Ordinary Areas

FM
APPROVED

INTRODUCTION:

Baghouse and precipitator hoppers experience pluggage problems due to flue gas condensation. This is an expensive and an unnecessary problem.

The "HB" Heating modules are designed to eliminate the maintenance nightmare of hopper pluggage.

Each system is custom built to address the exact needs of the application. The HB Module has been used successfully on thousands of individual precipitator and fabric filter hoppers.

THE "HB" HEATING MODULE

The HB Heating module has numerous outstanding design features, proven by 30+ years of operation in the field.

- ***Robust, flexible, cushion like heater face that provides maximum heat transfer to the hopper surface. (Even when the hopper surface is irregular.***
- ***Low watt density design with flat foil heating elements for efficient heat transfer, low operating temperatures and increased heater life.***
- ***Multiple parallel path circuitry design for increased heater reliability and increased design flexibility.***
- ***Custom designing allows for heating systems to be used on voltages up to 600 volts, with minimal series connections.***
- ***Lightweight, easily handled unit that simplifies installation and minimizes installation costs.***

The HB heating modules are manufactured from the highest quality materials and subject to 100 percent inspection throughout the manufacturing cycle.

The Hotfoil Type "HB" Heating Module is FM Approved for ordinary areas.

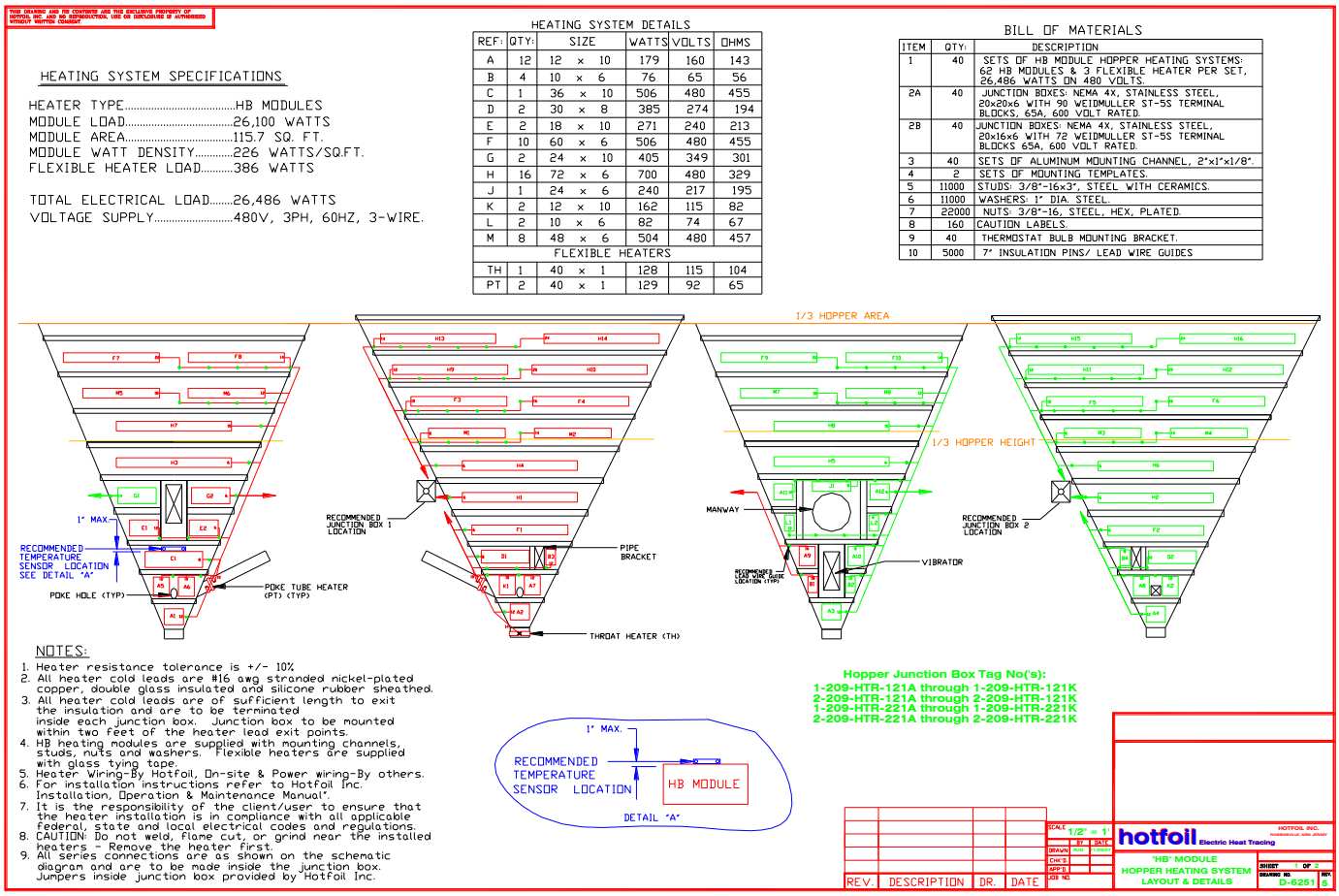
ENGINEERING AND DESIGN:

Interested in getting a quote on an HB MODULE Heating System?

WE OFFER: ***Complete system design.***

- ***We are capable of designing the systems from drawings or site sketches. Once the system has been designed it will be sent to you with a formal quote. Should you choose to purchase, we will re-issue the drawings for approval.***
- ***If drawings are not available, we can arrange for an engineer to make a site visit. Once there we will measure and design the heating system directly on the Hopper, Chute, Flop Gate, etc… We will return to the office, design the system in CAD. If we design the system from the field we will take 100% responsibility for any heaters that do not fit.***
- ***As with all of our Heating Systems we offer a wide range of controls, from your basic thermostat to electronic controllers. We try to keep everything simple so that you pay for only what you need and nothing more.***
- ***And last but not least we are available 24 hours a day 7 days a week, no exceptions.***

The drawing you see below is the design that was originally put together for the picture you see on the front.



SYSTEM DESIGN:

When the problem of Hopper Condensation was originally investigated, it was found that the simple application of strip and rod type electrical heaters was not the answer. High temperatures in localized areas causes warped hoppers.

Hotfoil engineering staff has designed many such systems both large and small. Our package will involve heater layout, installation equipment and instructions, electrical schematics and temperature control equipment. All applications are handled on a project management basis to ensure customer and end user satisfaction.

IEEE 1069 - 1991

In 1991 there was published the "IEEE 1069 Recommended Practice for Precipitator and Baghouse Hopper Heating Systems".

These guidelines were put together by engineers involved with the air pollution control industry. The members of the chosen committee involved utility engineers, designers of APC systems, architect engineers and the leading heating manufacturers of the day. The group laid out basic guidelines for the industry with desired parameters. The publication covered design, layout, calculations, temperature control, etc. to give the industry a standard on which to base.

Today these guidelines are used throughout the world as the most comprehensive basis for fly ash hopper heating projects. ***Hotfoil was an active member of the committee establishing the guidelines*** and we uphold and adhere to the proven recommendations.

PRODUCT/SYSTEM FEATURES

Custom Designed System

Each client gets the assurance that the specific problem in question is being addressed with a product designed for the job. We pride ourselves on understanding, processing and then supplying the product with the knowledge that it will stand up and prove itself year after year.

Factory Mutual Approved

The product and system are approved for use in non-hazardous areas, In most cases the heaters can be installed in Hazardous areas as the heaters are insulated over and protected, Controls are then supplied in NEMA 7,9 Boxes to protect against arcs and sparks. Safety and reliability is unquestionable.

CONTROL SYSTEMS AND HOPPERS:

We also supply custom Control Systems for all of our Hopper Heaters.

We also offer replacement Hoppers for your existing Baghouse or Precipitator.

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