Have This Pipe Heating Challenge?

Did you know that in addition to temperature maintenance and differential Banner-Day can predict and size for a specified minimum warm-up time for your ingredient, material, product or process? This can be from a minimum ambient temperature to operating maintenance temperature, or thawing of an ingredient or product that has solidified within your impedance pipe heating system (IPH).

Often when a process involves moving high viscosity ingredients, materials or products that solidify such as shortening, chocolate or wax a planned or unplanned outage can bring production to a standstill until the product in the line is brought back to a specific fluidity and temperature. Because impedance pipe heating systems effectively use the pipe itself as the heating element, heat is generated uniformly along the length of the impedance system eliminating the danger of locally overheating and damaging temperature sensitive materials which can easily occur with conventional heat tape or heating cable pipe heating systems. Additional advantages over conventional heating methods include, no external fluid or steam that can introduce complexity and potential hazards, and no leaky jackets or failed steam traps. Banner-Day can bring your system back on-line safely meeting your process’s required timeline.

Determining and sizing for warm-up time simply requires the following material and process data in addition to the standard impedance pipe heating system sizing parameters. The additional parameters are:

- **SPECIFIC GRAVITY OF FLUID**
- **SPECIFIC HEAT OF FLUID**
- **LATENT HEAT OF FUSION OF FLUID (IF APPLICABLE)**
- **HEAT UP OR THAW TIME REQUIRED (IF APPLICABLE)**
When transferring ingredients or materials that become highly viscous or solidify at local ambient temperature, or when process warm-up time is important, Banner-Day has pipe heating technology and technical expertise to deliver solutions for your specific pipe heating applications.

Canola Oil Plant using IPH

Contact Banner-Day today with your pipe heating application challenges for evaluation of a TraceFREE® impedance pipe heating solution that meets your needs and budget.