THERMAL PROCESS DEVELOPMENT

Hot Oil Heaters

Thermal Process Development hot oil heaters standard design use a dual helical coil layout which has two fluid passes through the hot flue gases. The dual helical coil design provides the highest heat transfer efficiency for hot oil heaters. Thermal Process Development also designs with the lowest pressure drop allowable to lower the maintenance needs of the hot oil heater and the thermal fluid pumps. Using thermal fluid heating in a hot oil heater is becoming standard in many industries such as manufacturing processes, reactor heating, tank heating, cooking/frying, gas processing, glycol heating and liquid and gas reheating. Thermal oil and thermal fluids can be used for high temperature applications up to 750 F, while glycol and hot water can be used for low temperature processes. Using thermal fluid for process heating has many benefits including being able heat fluid to high temperatures while staying at low pressures. In a majority of processes, the thermal fluid stays in a liquid state, unlike steam boilers in which fluid changes from liquid to vapor.

APPLICATIONS

- Glycol Heating
- Chemical Reactor Heating
- Amine Reboilers
- Process Heating
- Cooking and Frying
- Platen Heating
- ORC Power Generation
- Plastics Molding and Extrusion
- Biodiesel

Contact Us

If you need design support, engineering or equipment for any kind of reciprocating grate or thermal fluid heater please call us or send an email. Let us know how we can support your plant.

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