



SIGMA THERMAL INC.

INDUSTRIAL PROCESS HEATING SYSTEMS, AUTOMATION, SERVICES & PARTS

Sigma Thermal designs, engineers, supplies, and services all types of industrial process heating systems and associated automation. Because every project is unique, our application engineers will gain an understanding of your process demands to help you select the right equipment for your application. Understanding our customers' process is the key to supplying a system that consistently exceeds expectations.



Thermal Fluid Heating Systems

Standard thermal fluid heaters from 500,000 to 75MM Btu/hr, custom engineered thermal fluid heaters, complete thermal fluid systems for Hot Oil, Glycol, Water, and other heat transfer mediums.

Direct Fired Heaters

Convection style, API and non-API radiant-convective heaters from 1MM to 80MM Btu/hr. Radiant-convective and convection only style heaters are available to meet a wide variety of demanding applications.

Process Bath Heaters

Water bath, salt bath, and weir bath indirect fired heating systems from 1MM to 30MM Btu/hr. Forced draft/natural draft burners and custom coil configurations are available to meet your specific process requirements.

Biomass Fired Energy Systems

Reciprocating grate combustion systems for heavy moisture content fuels, as well as dry fuel combustors for drier fuel sources. Furnaces, hot oil heaters, boilers, fuel handling, and ash handling.

Waste Heat Recovery

Don't send precious heat energy up the exhaust stack! We build closed loop liquid phase waste heat recovery systems for oil, water, or glycol as well as combustion air pre-heat systems for existing fired heaters.

Electric Process Heaters

Standard and custom engineered electric immersion and circulation heaters with controls. Whether shipped loose or packaged as a skid, Sigma Thermal can provide the complete solution.

Automation

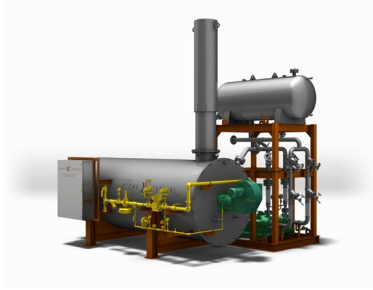
Burner Management Systems, Combustion Control Systems, Basic Process Control Systems, Field Service, and Functional Safety Engineering for all types of heating system and auxiliary package control.

Parts, Service, & Retrofits

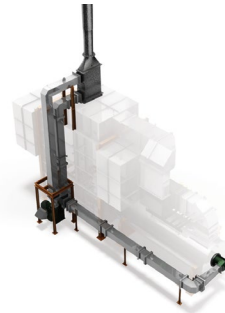
Specializing in system optimization to ensure that your plant operates at it's maximum potential. We provide field service, parts, systems analysis, and upgrades/retrofits to existing systems.



Thermal Fluid Heating System (Vertical)



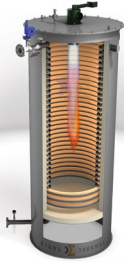
Thermal Fluid Heating System (Horizontal)



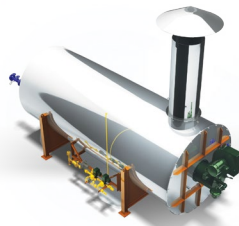
Combustion Air Pre-Heat System



Thermal Fluid Heating System (Custom)



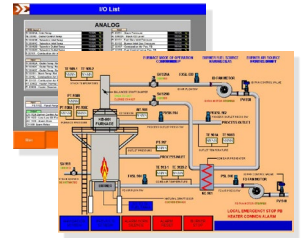
HC-1 Thermal Fluid Heater (Vertical)



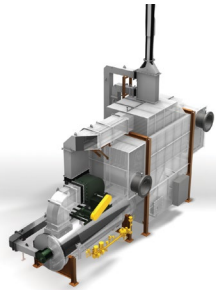
HC-1 Thermal Fluid Heater (Horizontal)



HC-2 Thermal Fluid Heater



Automation



Convection Heater



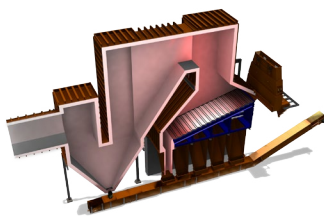
Radiant-Convective Heater



Process Bath Heater



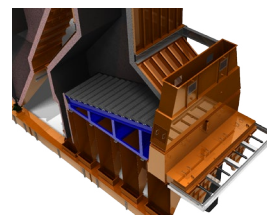
Weir Bath



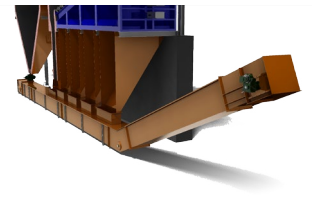
Biomass Energy System



Biomass Fuel Handling System



Biomass Combustion System



Biomass Ash Handling System



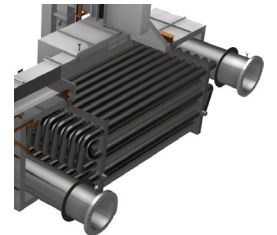
Immersion Heater



Circulation Heater



Waste Heat Recovery System (WHRU)



WHRU - High Particulate System