ENERQUIP®
THERMAL SOLUTIONS

SERPENTINE COIL THERMAL FLUID HEATERS

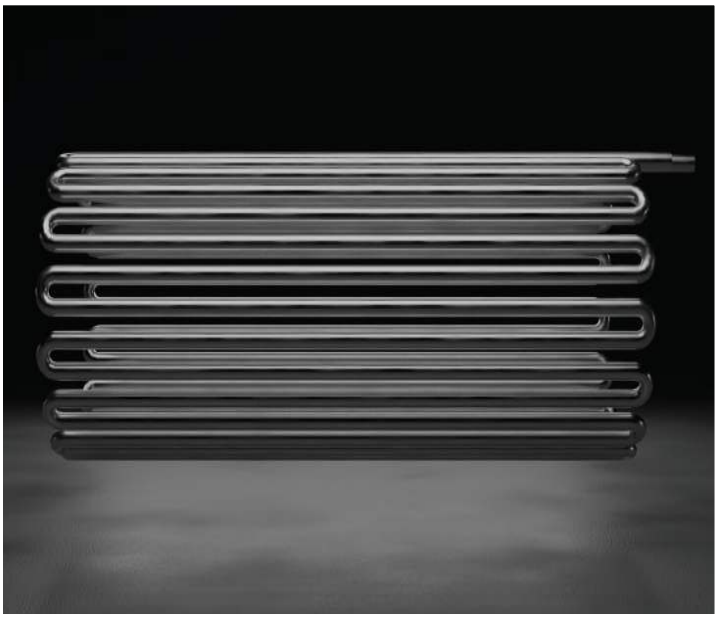
Is your facility struggling with process fluid degradation, tube failures, or escalating operational costs? If so, it may be time to upgrade to a high-efficiency serpentine coil thermal fluid heater from Enerquip. Our serpentine coil heating solutions are designed to enhance both productivity and profitability.

Enerquip's heaters are tailored to meet a wide range of process needs, including low NOx emissions, and are available in capacities ranging from 2 to 40 MM Btu/hr.

Renowned for their exceptional fuel efficiency, Enerquip's serpentine coil heaters feature a standard finned tube economizer section, enabling them to achieve efficiency levels of up to 90% L.H.V. — all without the need for air preheating.

ADVANTAGES OF SERPENTINE COILS

Higher Efficiency
Our serpentine coil heaters are 10-15% more efficient than helical coil hot oil heaters, saving your facility thousands in overhead.



Long Tube Life
Serpentine coils typically last two to three times longer than standard helical coils. As a result, you can count on Enerquip's serpentine coil heaters to last for decades.

Higher Operating Temperatures
Typical hot oil heaters offer limited operation at fluid temperatures over 400°F, but serpentine coil hot oil heaters can operate efficiently at temperatures up to 650°F.

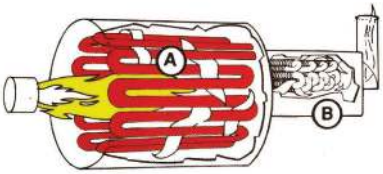
Low Levels of Fluid Degradation
Our serpentine coils allow for more even heat distribution, which means your heating fluid will last significantly longer.

Easy Maintenance
Our serpentine coil thermal fluid heaters require minimal maintenance. When coil maintenance is necessary, the coil can be removed and a tube can be repaired or replaced, typically in less than a day.

SERPENTINE COIL HEATERS vs. HELICAL COIL

Serpentine Coil Heat Exchange

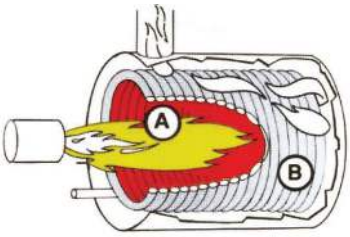
In the radiant section of the heater (A), heat is transferred to the front, sides and back of the serpentine coil. This allows for more even heat distribution, less coil degradation, longer tube life, and higher operating oil temperatures. In the convection section (B) of our serpentine coil, heat is transferred to a much larger surface area in our integrated economizer. This reduces stack temperature and makes the serpentine coil hot oil heater 10-15% more efficient.



SERPENTINE COIL HEATER
WITH CONVECTION SECTION
(ECONOMIZER)

Helical Coil Heat Exchange

In the radiant section of the heater (A), heat is transferred by direct radiation only on the inside surface of the helical coil. Convection (B) only occurs as the vapors pass over the outside surface of the helically wound coils, before leaving the stack at a much higher temperature. Although less efficient, this design is more compact.



HELICAL COIL HEATER

Enerquip also designs and builds heat exchangers, tank coils, economizers, and more.
Learn for yourself why Enerquip's quality and service is unmatched in the industry. Call us today!

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