



# SERPENTINE COIL THERMAL FLUID HEATERS

Is your facility struggling with process fluid degradation, tube failures, or high operational costs?

If so, it may be time to consider a high-efficiency serpentine coil thermal fluid heater from Enerquip. Sized for a wide range of process requirements, our heaters are engineered from 2 MM Btu/hr. to 40 MM Btu/hr.

Our unique serpentine coil heater design can eliminate the problems listed above, providing you with a fuel-efficient heating solution that can help you maximize your productivity and profitability.



## BENEFITS OF SERPENTINE COILS

### Low Levels of Fluid Degradation

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

### Long Tube Life

It's not uncommon for serpentine coils to last for decades!

### Higher Operating Temperatures

Serpentine coil thermal fluid heaters can operate efficiently at temperatures up to 650°F.

### Low Flow Rates

Our unique design allows for lower flow rates than most heaters on the market. This reduces the size of the piping and valves used throughout the system and decreases the necessary amount of pump horsepower, reducing overall system and operational costs.

### Higher Efficiency Than Helical Coil Heaters

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

### Minimal 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.

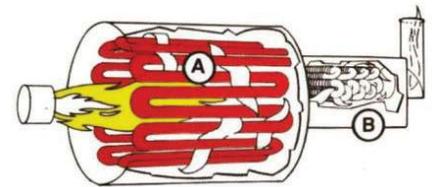




## SERPENTINE COIL HEATERS vs. HELICAL COIL HEATERS

### Serpentine Coil Heat Exchange

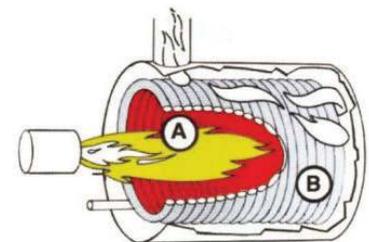
In the radiant section of the heater (A), heat is transferred to the front, sides and back of the serpentine coil. This allows for more even heat distribution, less coil degradation, longer tube life, and higher operating oil temperatures. In the convection section (B) of our serpentine coil, heat is 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 ECONOMIZER SECTIONS

### 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

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

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