

Is your facility experiencing issues with process fluid degradation, tube failures, or soaring operational expenses? If the answer is yes, then it may be time to consider a high-efficiency serpentine coil thermal fluid heater from Purple Heat Exchangers. Our heaters are tailored to suit a broad spectrum of process requirements, and they range from 2 MM Btu/hr to 40 MM Btu/hr. Our serpentine coil heater design can tackle the issues listed above, furnishing you with a fuel-efficient heating solution that boosts productivity and profitability.



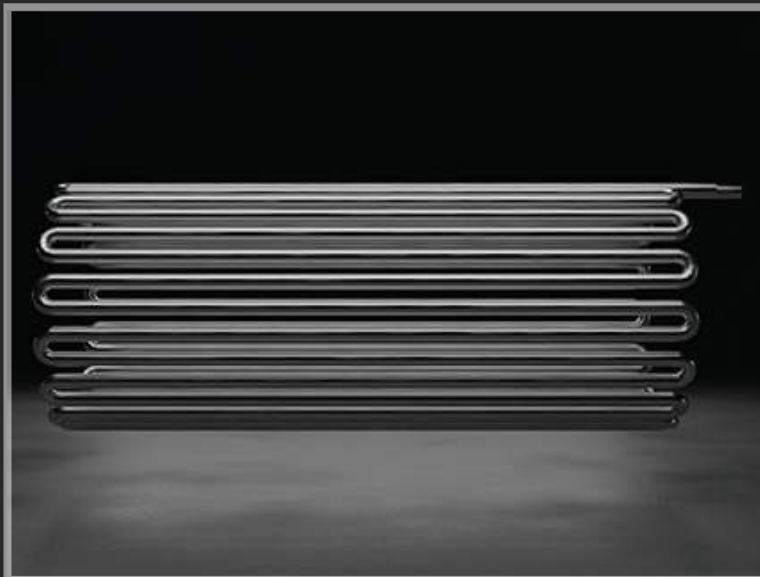
ADVANTAGES OF SERPENTINE COILS

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

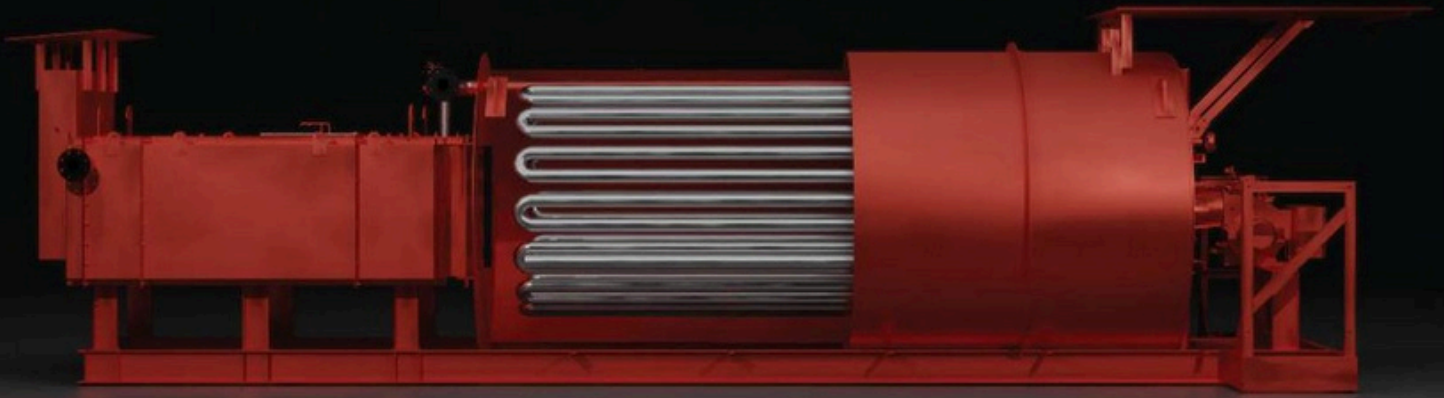
Our unique design allows for lower flow rates than most heaters on the market. This reduces the size of the piping and valves used throughout the system and decreases the necessary amount of pump horsepower, reducing overall system and operational costs.

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

Serpentine Coil Heat Exchange

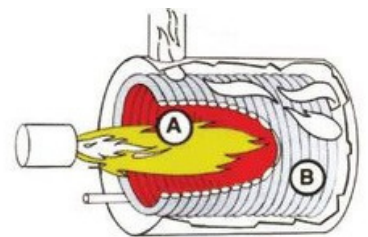
In the radiant section of the heater (A), heat is transferred to the front, sides and back of the serpentine coil. This allows for more even heat distribution, less coil degradation, longer tube life, and higher operating oil temperatures. In the convection section (B) of our serpentine coil, heat is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

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.



SERPENTINE COIL HEATER WITH CONVECTION SECTION (ECONOMIZER)



HELICAL COIL HEATER

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Powered by

