ENERQUIP®
THERMAL SOLUTIONS

TANK HEATING PROJECTS

6M BTU HOT OIL HEATER

This project is an AHE-600 high-efficiency hot oil heating system built for the energy industry. It has a maximum output capacity of 6M Btu/hr. and includes a finned convection (economizer) section and a serpentine coil radiant section. The system also includes a 2,000-gallon expansion tank, 250gpm recirculation pump, NEMA 4 control panel, and fuel train.

AWO-1720


AWO: 2008

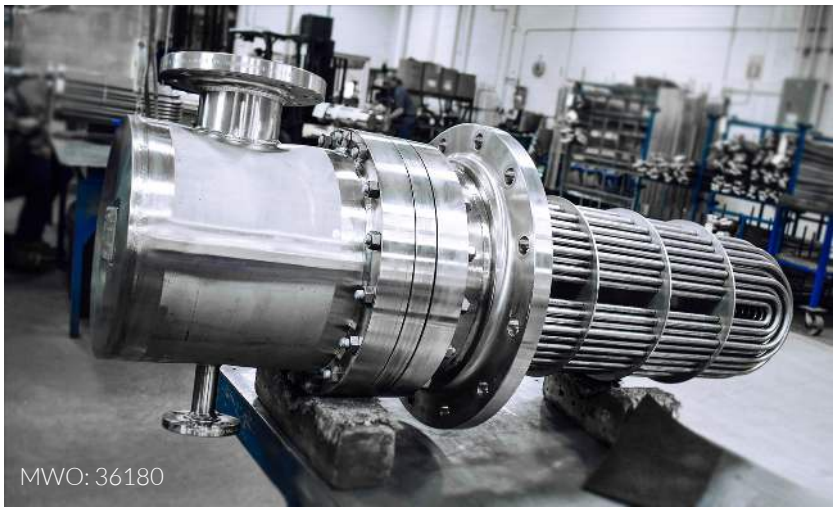
FINNED HOT OIL TANK HEATING COILS

This project features 12 sets of helical finned tank heating coils. Hot oil flows through the coils in a serpentine fashion, efficiently heating the tank contents. Made of schedule 80 carbon steel, the fins offer 12x greater surface area than bare pipe alone. This efficiency reduces the amount of pipe required to heat the tank, leading to cost and time savings during installation.


AWO-2005

BARE HOT OIL TANK HEATING COILS

These hot oil bare tank heating coils are 316L stainless steel and set in banks of 28 with 10 ft straight length. In a serpentine fashion, hot oil flows through the coil bank in one pass. Stainless steel bare coils are a great option with corrosive, low-viscosity products.


MWO: 36180

BAYONET HEATER

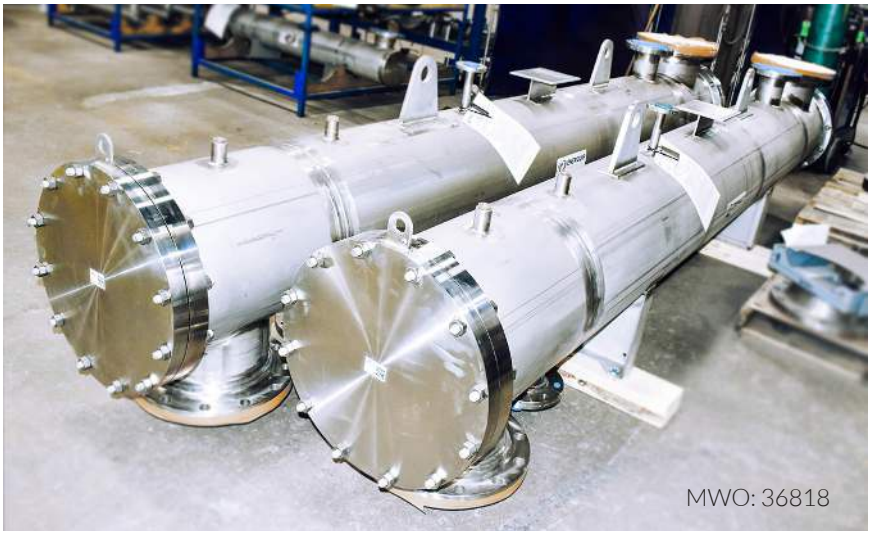
This project spotlight is a 12” x 30” bayonet heater. Unlike our shell and tube exchangers and suction heaters, which are designed to heat liquids as they are pumped through the exchanger, bayonet immersion heaters are designed to efficiently heat entire tanks of fluid. With our bayonet immersion heaters, the tube bundle is completely immersed in the tank, and the heating coil is directly exposed to the fluid for maximum heating efficiency.

STEAM GENERATOR

This skid project includes a two-pass U-tube steam generator, a control panel to manage all aspects of the system, and a 60-gallon boiler feedwater system. The steam generator has a removable channel and tube bundle with 3/4” 304L stainless steel seamless tubes that were expanded and strength welded to the tube sheet.

The unit is wrapped in an aluminum insulation jacket for efficiency and safety. It was designed to meet TEMA B requirements and is ASME Code stamped to Section VIII, Div 1.


AWO: 1725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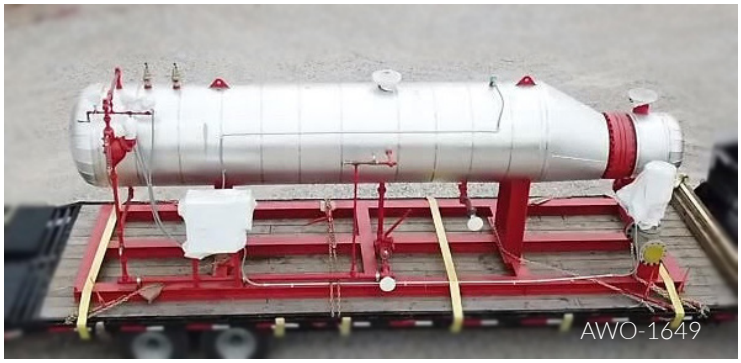
LFG HEATERS

These shell and tube heat exchangers are used to gradually heat tank contents by recirculating the product through the exchanger. This solution was chosen due to the impracticality of emptying these specific tanks for coil or bayonet heater installation.

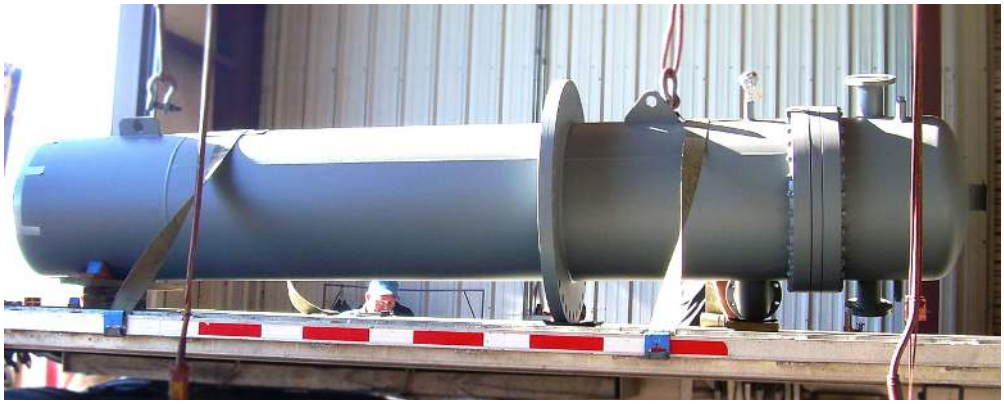


STEAM GENERATOR

This U-tube steam generator system has a removable channel and tube bundle, and a control panel to manage all aspects of the system. The unit is wrapped in an aluminum insulation jacket for efficiency and safety and was designed to meet TEMA B and ASME Code.

FINNED STEAM TANK HEATING COILS

This is a set of stainless-steel steam tank heating coils with helically wound fins. The fins add up to 12x the surface area of their bare coil counterpart, creating more heat transfer with fewer coils. The coils are in banks of six and are 20 feet long. Hot steam flows through the top three tubes in the coil bank in one pass, with the condensate returning through the lower three tubes.



SUCTION HEATER

This suction heater was crafted for easy mounting on the side of a tank via a manway. It warms the liquid inside the tank only as it's being pumped out. This makes suction heaters a cost-effective choice for many plants and facilities across different industries.

Let us design a custom solution for your production process. Call us, today!

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