

CONTRACE®

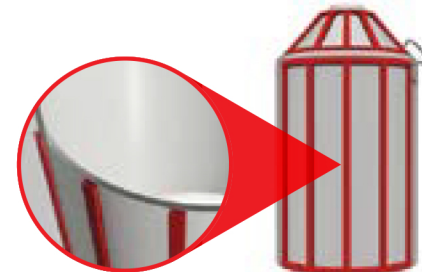
INNOVATIVE HEATING FOR TANKS & VESSELS

CSI

At CSI, we pride ourselves on helping clients find the best heating solution for their application. For 40+ years, CSI has been supplying ControTrace® heating systems to solve critical heating applications.

CONTROTRACE®

ControTrace® bolt-on heating elements are the preferred steam tracing solutions for heating pipe, tanks, and vessels since 1980. It is a cost-effective alternative to fully jacketed piping and, in comparison to tube tracing, provides higher heating capacities and reliability. ControTrace heating elements also prevent cross-contamination between the heating medium and the process. Today, over five hundred miles of ControTrace heat tracing is in service in plants and refineries around the globe.



FEATURES

- Robust construction, 2-3x thicker than typical tracing (SA-178 Grade A boiler tube pressure rated per ASME Section VIII, Div.1)
- External heating systems allow easy maintenance & eliminate potential product contamination
- Conductive heat transfer path from the heating medium through the wall into the process with the aid of Heat Transfer Compound (HTC)
- Contoured to fit the tank/vessel diameter
- Panel configuration on tank/vessel

HEATING ADVANTAGES

- Engineered for predictable heating performance and backed with the CSI thermal guarantee
- Robust construction (material 2x thicker than typical panel coil)
- Stainless Steel is available for aggressive environments
- Pressure rated in accordance with the ASME Boiler and Pressure Vessel Code, Section VIII, Div.1
- Even heat distribution
- Easy installation/field modification
- No cross-contamination concerns
- Low maintenance costs – external accessibility
- Global field support resources for install support

Both the shape and element density of each ControTrace panel are engineered specifically for the application resulting in unrivaled temperature uniformity and an ability to precisely control the vessel wall temperature.

CONTROTRACE OFFERS IMPROVED PERFORMANCE OVER TRADITIONAL COILS & PANELS

PROBLEMS WITH INTERNAL COILS

- Uneven distribution of heating and accumulation of process on internal tank surfaces
- Accessibility issues for maintenance
- Risk of cross-contamination with process
- Coil corrosion which requires expensive and time-consuming repair

PROBLEMS WITH PANEL COILS

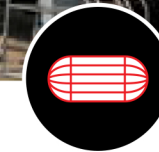
- Not customizable to accommodate nozzle/tank protrusions or heating of nozzles
- Panel design utilizes long seam welds of thin material susceptible to corrosion and failure
- Gaps between panels leave large swaths of unheated tank surface
- Large distances between panels reduce opportunities for heating fluid circuit optimization
- Can't maintain uniform vessel wall temperature



CONTROTRACE ON TANKS

In some applications (e.g., molten sulfur), tank corrosion can occur because an internal steam coil is not able to maintain the tank shell and roof temperature.

With ControTrace, the external heating system maintains both the process temperature and the shell/roof wall temperature, preventing corrosion and allowing for easy access to the heating system for maintenance.



CONTROTRACE ON VESSELS

The same design principles apply to vessels. External ControTrace heating prevents processes from condensing/freezing on the internal vessel walls.

Additionally, ControTrace can be designed and fabricated to conform to any vessel geometry such as bottom cones, vessel heads, and around nozzles. We can also supply bolt-on ControHeat jackets to heat nozzles effectively. CSI utilizes the vessel fabrication drawings to create custom heating systems for each application. Panels are delivered ready to bolt on to the equipment.



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