

Let's talk about your heating application

For over 50 years, CSI has been working with clients just like you to solve their heating problems in plants worldwide. Contact us today!

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Heating Application Guide A technology-neutral approach

Don't let your plant struggle with process heating issues and incur unnecessary capital and operational expense. At no cost to you, let CSI help evaluate the RIGHT thermal solution which solves your heating problems while reducing the total heating installed costs and ongoing operational expense.



What is Your Heating Media?



Steam/Vapor Low & high pressure steam, hot oil vapor - up to 1,000 psig, 70 barg



Liquid Oil, Glycol/water

What is Your Process/Heating Objective?



Polymer/Plastics/Resin Thermal Objective: maintain bulk process &/or uniform pipe wall temp. (93-399°C, 200-750°F)



Asphalt/Resid/Crude Thermal Objective: maintain bulk process temp. (135-232°C, 275-450°F)



Molten Sulfur

Thermal Objective: maintain bulk process temp. (132-149°C, 270-300°F)



Urea Solution

Thermal Objective: maintain bulk process temp. (79-154°C, 175-310°F)



Sulfur Vapor (Vent/Tail Gas) Thermal Objective: maintain pipe

wall temp. (127-171°C, 260-340°F)



Winterization

Thermal Objective: freeze-protection $(0^{\circ}C+, 32^{\circ}F+)$



Acid Gas

(Sour Water Acid Gas, Amine Acid Gas) Thermal Objective: maintain pipe wall temp. (49-85°C, 120-185°F)



Temperatures listed are typical and vary by user specific applications

Recommended Application

 ΔT = (heating medium temperature - process maintenance temperaure)



Application Details





ControTrace®



TraceBOOST®



400			4	
Engineered	Engineered	Guided	Guided	Design Approach
8			Ø	for Freeze Protection
				for Bulk Temp Maintenance
				for Melt Out
		8		for WallTemp Maintenance
		8		Use as Heat Exchanger
	•			Tanks and Vessels
				Equipment Heating
				Lead Time
				Installation Drawings
				Total Plant Solution

Tank/Vessel Heating

Use ControTrace® heating panels to eliminate internal coil headaches and poor performance of traditional plate coils



Equipment Heating Jackets

Temperature maintenance of valves/pumps/meters is critical to overall system performance. Use ControHeat® jackets



Lead Time

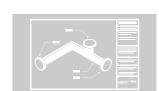
Thermal Objective

Use TraceBoost™ for non-critical thermal maintenance – stock availability. ControTrace® lead time is 50% ≤ jacketed pipe



Installation Drawings

Detailed install and heating circuitry drawings provided to ensure correct field install in critical heat tracing applications



Total Plant Solution

From choosing the right heating system to designing the supporting infrastructure, CSI can optimize your plant to deliver a TOTAL PLANT SOLUTION which uses the appropriate thermal solution while minimizing costs of both the heating system and infrastructure (manifolds/supply-return tubing/steam traps).









